### Curriculum Vitae

## Andrew B. Newberg, M.D.

| Education: | 8/84-5/88 | B.A. | Haverford College<br>Haverford, PA 19034                                |
|------------|-----------|------|---|
|            | 8/88-5/93 | M.D. | University of Pennsylvania School of Medicine<br>Philadelphia, PA 19104 |

# **Postgraduate Training and Fellowship Appointments:**

| 6/93-6/94<br>7/94-6/96 | Internship in Internal Medicine, Graduate Hospital, Philadelphia, PA 19134<br>Residency in Internal Medicine, Graduate Hospital, Philadelphia, PA 19134 |
|------------------------|---|
| 7/96-6/97              | Chief Resident, in Internal Medicine, Graduate Hospital, Philadelphia, PA   |
|                        | 19134   |
| 7/97-6/98              | Fellow, Division of Nuclear Medicine, Department of Radiology,  |
|                        | University of Pennsylvania School of Medicine, Philadelphia, PA<br>19104  |
| 7/97-1/98              | Chief Fellow, Division of Nuclear Medicine, Department of Radiology,  |
|                        | University of Pennsylvania School of Medicine, Philadelphia, PA   |
|                        | 19104   |

## **Faculty Appointments:**

| 7/94-6/97     | Assistant Instructor, Department of Internal Medicine, University of     |
|---------------|--|
|               | Pennsylvania School of Medicine  |
| 7/98-11/99    | Clinical Assistant Professor of Radiology, University of                 |
|               | Pennsylvania School of Medicine  |
| 7/97-7/99     | Instructor, Department of Psychiatry, University of Pennsylvania School  |
|               | of Medicine  |
| 12/99-6/06    | Assistant Professor of Radiology, University of Pennsylvania School of   |
|               | Medicine   |
| 6/03-10/10    | Assistant Professor of Psychiatry, University of Pennsylvania School of  |
|               | Medicine   |
| 10/05-10/10   | Adjunct Assistant Professor, Department of Religious Studies, University |
|               | of Pennsylvania, School of Arts and Sciences                             |
| 7/06-10/10    | Associate Professor of Radiology, University of Pennsylvania School of   |
|               | Medicine   |
| 10/10-10/19   | Professor of Emergency Medicine, Thomas Jefferson University and         |
|               | Hospital   |
| 7/15-present  | Adjunct Professor, Department of Psychology, University of Pennsylvania, |
|               | School of Arts and Sciences  |
| 10/10-present | Professor of Radiology, Thomas Jefferson University and Hospital         |

| 10/19-present | Professor, Department of Integrative Medicine and Nutritional Sciences |
|---------------|--|
|               | Thomas Jefferson University and Hospital                               |
| 9/22-present  | Adjunct Professor, Department of Humanistic Psychology. Saybrook       |
|               | University   |

## **Hospital and Administrative Appointments:**

| 7/98-11/99    | Staff Physician, Nuclear Medicine Service, Veterans Affairs Medical            |
|---------------|--|
|               | Center   |
| 12/99-10/10   | Attending Staff, Division of Nuclear Medicine, Department of Radiology,        |
|               | Presbyterian Medical Center  |
| 12/99-10/10   | Attending Staff, Division of Nuclear Medicine, Department of Radiology,        |
|               | University of Pennsylvania School of Medicine                                  |
| 4/02-10/10    | Staff Physician, Division of Nuclear Medicine, Department of Radiology,        |
|               | Pennsylvania Hospital  |
| 8/02-10/10    | Staff Physician, Division of Nuclear Medicine, Department of Radiology,        |
|               | Phoenixville Hospital  |
| 7/04-10/10    | Staff Physician, Division of Nuclear Medicine, Department of Radiology,        |
|               | The Children's Hospital of Philadelphia  |
| 10/10-10/19   | Staff Physician, Department of Emergency Medicine and Radiology,               |
|               | Thomas Jefferson Hospital  |
| 10/10-present | Director of Research, Marcus Institute of Integrative Health, Thomas Jefferson |
| -             | Hospital   |
| 10/19-present | Staff Physician, Department of Integrative Medicine and Nutritional Sciences,  |
| *             | Thomas Jefferson Hospital  |
|               | -  |

## **Specialty Certification**:

| August, 1997    | Diplomate American Board of Internal Medicine |
|-----------------|---|
| September, 1998 | Diplomate American Board of Nuclear Medicine  |
| Licensure:      | Pennsylvania: MD-057772-L                     |

# Awards, Honors, and Membership in Honorary Societies:

| 2021 | Expertscape Expert in Emission-Computed Tomography                         |
|------|--|
| 2021 | Castle Connolly "Top Docs". Top Doctor in Nuclear Medicine, Philadelphia   |
| 2020 | Castle Connolly "Top Docs". Top Doctor in Nuclear Medicine, Philadelphia   |
| 2019 | Castle Connolly "Top Docs". Top Doctor in Nuclear Medicine, Philadelphia   |
| 2018 | Nominated for Christopher Award for creative works that affirm the highest |
|      | values of the human spirit for the book, "Neurotheology: How Science       |
|      | Can Enlighten Us About Spirituality".                                      |
| 2018 | Castle Connolly "Top Docs". Top Doctor in Nuclear Medicine, Philadelphia   |
| 2017 | Castle Connolly "Top Docs". Top Doctor in Nuclear Medicine, Philadelphia   |
|      |  |

| 2017 | Teacher of the Year Award. Biological Basis of Behavior Program. University of Pennsylvania. Philadelphia, PA.  |
|------|---|
| 2016 | Castle Connolly "Top Docs". Top Doctor in Nuclear Medicine, Philadelphia  |
| 2016 | 30 Most Influential Neuroscientists Alive Today. Online Psychology Degree Guide.  |
| 2016 | Living Now Book Awards, Gold Medal Winner.  |
| 2015 | Castle Connolly "Top Docs". Top Doctor in Nuclear Medicine, Philadelphia  |
| 2014 | Castle Connolly "Top Docs". Top Doctor in Nuclear Medicine, Philadelphia  |
| 2013 | Castle Connolly "Top Docs". Top Doctor in Nuclear Medicine, Philadelphia  |
| 2010 | Teacher of the Year Award. Biological Basis of Behavior Program. University of Pennsylvania. Philadelphia, PA.  |
| 2010 | Mani Bhaumik Award for "For Advancing the Understanding of the Brain and<br>Conscious Mind in Healing Through Visionary Research, Books, and<br>Education". Cousins Center for Psychoneuroimmunology at UCLA.<br>Los Angeles, CA. |
| 2006 | City Paper Choice Awards for "Best Integration of Science and Religion". City<br>Paper Philadelphia, PA.  |
| 2003 | Semifinalist for "Most Influential Radiology Researcher Award,<br>AuntMinnie.com, October, 2003   |
| 2002 | Finalist for "Books for a Better Life" Award.   |
| 2001 | Outstanding Books in Theology and the Natural Sciences for 1999 for<br>"The Mystical Mind: Probing the Biology of Religious<br>Experience", sponsored by the Center for Theology and the<br>Natural Sciences.                     |
| 2000 | Alavi-Mandell Prize for outstanding article on research by a Nuclear Medicine Trainee.  |
| 2000 | Center for Theology and the Natural Sciences, Science and Religion<br>Course Award for teaching the course, "The Biology of<br>Spirituality," in the Department of Religious Studies, University of<br>Pennsylvania.              |
| 1998 | Gold Medal for Intellectual Curiosity, Institute for Patient Advocacy.  |
| 1998 | American College of Nuclear Physicians Residents Scientific<br>Program Award.   |
| 1997 | Philadelphia Nuclear Medicine Conference Award for Best Presentation.   |
| 1997 | American College of Nuclear Physicians Residents Scientific<br>Program Award.   |

# Academic Committees:

| 2011-2015 | Kimmel Cancer Center Data Safety Monitoring Board, Thomas    |
|-----------|--|
|           | Jefferson University   |
| 2010-2015 | Multidisciplinary Research Group, Gastrointestinal Oncology, |
|           | Department of Oncology, Thomas Jefferson University          |
| 2000-2010 | Resident Selection Committee, Department of Radiology,       |
|           | University of Pennsylvania                                   |

| 1997-2010 | Education Committee, Division of Nuclear Medicine, University of Pennsylvania |
|-----------|---|
| 1997-2010 | Committee on Continuous Quality Assurance and Improvement,                    |
|           | Division of Nuclear Medicine, University of Pennsylvania                      |
| 2003-2010 | Committee on Education and Academic Affairs, Department of                    |
|           | Radiology, University of Pennsylvania   |
| 2002-2006 | General Clinical Research Center Advisory Committee, University               |
|           | of Pennsylvania   |
| 1992-1993 | Council on Undergraduate Medical Education, University of                     |
|           | Pennsylvania, School of Medicine  |
| 1992-1993 | Primary Care Course Development Committee, University of                      |
|           | Pennsylvania, School of Medicine  |
| 1990-1993 | Evaluations Committee, University of Pennsylvania, School of Medicine         |
| 1990-1993 | Admissions Interviewing Panel, University of Pennsylvania, School of          |
|           | Medicine  |
| 1991-1992 | Departmental Review Committee, Microbiology, University of                    |
|           | Pennsylvania, School of Medicine  |
| 1990-1991 | Departmental Review Committee, Anatomy, University of Pennsylvania,           |
|           | School of Medicine  |
| 1989-1990 | Medical School Admissions Committee, University of Pennsylvania,              |
|           | School of Medicine  |

#### **Primary Clinical Responsibilities:**

- 1. Principal Physician (with Dr. George Zabrecky), Health Maintenance Program, Marcus Institute of Integrative Health, Thomas Jefferson University (2012 to present).
- 2. Medical Director, Marcus Institute of Integrative Health, PET-MR Imaging Center at Villanova, Thomas Jefferson University (2015 to present).
- 3. Principal Physician, Marcus Executive Great Life Program, Marcus Institute of Integrative Health, Thomas Jefferson University (2015 to present).
- 4. Integrative Medicine Clinical Staff Physician, Marcus Institute of Integrative Health, Thomas Jefferson University (2010 to present).

#### Major Teaching Responsibilities:

- 1. Co-director of Masters Course, IN 520 Advanced Concepts in Integrative Nutrition (this is an 18 hour/ 3 credit course developed by the Marcus Institute of Integrative Health). Thomas Jefferson University (2020-present).
- 2. Director of 4<sup>th</sup> year medical student course, JMD 466: Integrative Medicine (this is an 80 hour/ 2 week course developed by the Marcus Institute of Integrative Health). Thomas Jefferson University (2020-present).
- 3. Lecturer, Marcus Institute of Integrative Health Certificate Course on Advances in Mind-Body Medicine (3 hours/year), Thomas Jefferson University (2020-present).

- 4. Lecturer, Marcus Institute of Integrative Health Certificate Course on Advances in Integrative Nutrition (3 hours/year), Thomas Jefferson University (2020-present).
- 5. Lecture on Diet and Nutrition in Cardiovascular Disease (1 hour/year) to 1<sup>st</sup> year medical students, Thomas Jefferson University (2019-present).
- 6. Medical Student Scholarly Inquiry Supervisor (~5 students per year, 10 hours/ student), Thomas Jefferson University (2018-present).
- 7. Integrative Medicine Student Interest Group, Faculty Supervisor (10 hour/year), Thomas Jefferson University (2015-present).
- 8. Medical Student Wellness Week, Workshop Leader, (1 <sup>1</sup>/<sub>2</sub> hours /year), Thomas Jefferson University (2018-present).
- 9. Lecture on General Nuclear Medicine (2 hour /year) Radiology resident training, Thomas Jefferson University (2012-present).
- 10. ID150 Course in Neuroscience (1 hour lecture/year), Thomas Jefferson University (2012-present).
- 11. Neurology Student Group (1 hour lecture/year), Thomas Jefferson University (2013-present)
- 12. Student Supervisor for the Masters in Positive Psychology program at the University of Pennsylvania (2011-present)
- 13. Nuclear Medicine Residency Director, University of Pennsylvania (2009-2010)
- 14. Human Brain Imaging, Biological Basis of Behavior Undergraduate Seminar Course 421 (weekly, Spring Semesters 2006-present).
- 15. Science and the Sacred, Department of Religious Studies Undergraduate Seminar Course 502 (weekly, Fall Semesters from 2004-2009).
- 16. Frontiers in Medicine Course, "Signals in Radiology" (<sup>1</sup>/<sub>2</sub> hour lecture/year), Department of Radiology (2004-2010).
- 17. Spirituality and Bioethics Course (2 hour guest lecturer). Department of Bioethics, University of Pennsylvania School of Medicine (2004).
- 18. Psychiatry Resident Seminar on Neuroimaging (1/ year), Department of Psychiatry, University of Pennsylvania School of Medicine (2002-2010).
- 19. Nuclear Medicine Lectures (2/month), Division of Nuclear Medicine, University of Pennsylvania School of Medicine (1999-2010).
- Nuclear Medicine Lectures for Radiology Residents (2/month), Department of Radiology Resident Lecture Series, University of Pennsylvania School of Medicine (1999-2010)
- 21. Radiology Resident Board Review (2 lectures/year), Department of Radiology, University of Pennsylvania School of Medicine (1999-2010)
- Nuclear Medicine Fellow Training during Rotations on the General Nuclear Medicine Service, PET Center, and Nuclear Cardiology, (2 <sup>1</sup>/<sub>2</sub> days/week) Division of Nuclear Medicine, University of Pennsylvania School of Medicine (1999-2010).
- 23. Lecture on General Nuclear Medicine (2 hour /month) Radiology 300 Course, University of Pennsylvania School of Medicine (1998-2010).
- 24. Lecturer for Nuclear Medicine Course 210, (3 classes /year) University of Pennsylvania Medical Center, Philadelphia, PA 19104 (1998-2010)

25. Nuclear Medicine Fellow Training during Rotations at the Veterans Affairs Medical Center, Division of Nuclear Medicine, University of Pennsylvania School of Medicine (1998-2010).

#### Memberships in Professional and Scientific Societies:

National Societies: International Society for Science and Religion (2001-present) Society of Nuclear Medicine (1996-present) International Society for Neuroimaging in Psychiatry (2001-2006)

Local Societies: Not applicable

National Scientific Committees: Not applicable

Local Scientific Committees: Not applicable

#### **Editorial Positions:**

| Guest Editor |   |
|--------------|---|
| 2010         | PET Clinics (Vol 5, Issue 1); PET in the Aging Brain      |
| 2010         | PET Clinics (Vol 5, Issue 2); PET in CNS Disease          |
| 1998-2001    | Hospital Physician, Series Editor on Alternative Medicine |

#### Reviewer

| 2019-present | Journal of Neuroradiology                       |
|--------------|---|
| 2019-present | Journal of Church and State                     |
| 2008-present | Archives of General Psychiatry                  |
| 2006-present | Cortex  |
| 2006-present | Journal of the American Medical Association     |
| 2006-present | Neuropsychopharmacology                         |
| 2006-present | Neuroscience Letters                            |
| 2006-present | International Journal of Psychiatry in Medicine |
| 2006-present | Pediatrics                                      |
| 2006-present | Cortex  |
| 2005-present | Nuclear Medicine Biology                        |
| 2005-present | Neuroscience Research                           |
| 2004-present | Brain and Cognition                             |
| 2004-present | European Journal of Nuclear Medicine            |
| 2003-present | Aviation, Space and Environmental Medicine      |
| 2003-present | Perceptual and Motor Skills                     |
|              |   |

| 2002-present | Academic Radiology   |
|--------------|--|
| 2002-present | Neuropsychiatry, Neuropsychology, and Behavioral Neurology |
| 2002-present | Journal of Computer Assisted Tomography                    |
| 2001-present | Psychiatry Research: Neuroimaging                          |
| 2001-present | Journal of Nuclear Medicine                                |
| 2000-present | Journal of Consciousness Studies                           |
| 2000-present | Head and Neck  |
| 1997-present | Alternative Therapies in Health and Medicine               |

# **Lectures by Invitation:**

| August 14, 1997   | "A Neuropsychological Analysis of Religion: Attempting to Find Why God<br>Won't Go Away". Rediscovering Cosmos Conference. Syracuse<br>University. Syracuse, New York.   |
|-------------------|--|
| February 10, 1998 | "The Neuropsychological Basis of Religion: Why God Won't Go Away".<br>Evening Lecture on The Neurosciences and Religion, Sponsored by the<br>American Association for the Advancement of Science Program for<br>Dialogue Between Science and Religion. Philadelphia, Pennsylvania. |
| February 26, 1998 | "Scientific Research on Meditation". Graduate Student Association Council<br>Multiculturalism Committee Forum on Complementary and Alternative<br>Medicine, University of Pennsylvania. Philadelphia, Pennsylvania.  |
| April 17, 1998    | "Physiological Response to Religious/Spiritual Experience". Spirituality<br>Research Symposium, Presbyterian Medical Center. Philadelphia,<br>Pennsylvania.  |
| June 5, 1998      | "The Neuropsychology of Religious and Spiritual Experience". Cognitive<br>Science and the Study of Religious Experience: A Working Symposium on<br>Theory and Method. University of Vermont, Burlington, Vermont.  |
| October 4, 1998   | "Meditation: Why It Works". Integrative Healthcare Choices from A to Z.<br>New Health Symposium. Philadelphia, Pennsylvania.   |
| October 5, 1998   | "The Effects of Spirituality on Health". Symposium entitled, Spirituality and<br>Health: Exploring the Relationship Between Body, Mind, and Spirit. New<br>Health Symposium. Philadelphia, Pennsylvania.   |
| October 17, 1998  | "The Neuroscience of Spiritual Experience". Kundalini Research Network's 7th<br>International Symposium. Norcross, Georgia.  |

| March 17, 1999   | "The Health Benefits of Meditation". Graduate Student Association Council<br>Multiculturalism Committee Forum on Complementary and Alternative<br>Medicine, University of Pennsylvania. Philadelphia, Pennsylvania. |
|------------------|---|
| April 12, 1999   | "Respondent". Spirituality Research Symposium, Presbyterian Medical Center.<br>Philadelphia, Pennsylvania.  |
| May 21, 1999     | "Why God Won't Go Away". Embracing the Spirit Conference, The Caron<br>Foundation. Wernersville, Pennsylvania.  |
| October 17, 1999 | "The Neuropsychological Analysis of Religion: Why God Won't Go Away".<br>C.G. Jung Society of West Jersey.  |
| October 24, 1999 | "Images of the Mystical Mind". 25th Annual Conference of the Yoga Research<br>Society, Philadelphia Pennsylvania.   |
| May 2, 2000      | "The Mystical Mind". Philadelphia Center for Religion and Science,<br>Philadelphia PA.  |
| June 19, 2000    | "The Pathological Origins of Nuclear Medicine: In Vitro Studies". Grand<br>Rounds, Department of Pathology, Hospital of the University of<br>Pennsylvania, Philadelphia, PA   |
| April 18, 2000   | "Stress Management in Medicine". Student Health Service Weekly<br>Medical Conference, Department of Student Health, University of<br>Pennsylvania, Philadelphia, PA   |
| October 17, 2000 | "Managing Stress in the Medical Profession". FOCUS Health Seminar<br>Series, Hospital of the University of Pennsylvania, Philadelphia, PA   |
| April 2, 2001    | "Why God Won't Go Away". The Mind Science Foundation Speaker Series.<br>San Antonio, TX.  |
| April 21, 2001   | "Why God Won't Go Away". International Conference on Science and<br>Consciousness. Albuquerque, NM. (April 21, 2001).   |
| April 23, 2001   | "Why God Won't Go Away". Mind and Supermind Evening Lecture Series.<br>Santa Barbara, CA.   |
| April 25, 2001   | "Exploring the Link Between Spirituality and Health". Guest Lecturer,<br>Department of Religion, Health and Human Value, Rush Presbyterian<br>St.Luke's Hospital, Chicago, IL                                       |
| April 26, 2001   | "Exploring the Link Between Spirituality and Mental Health". Guest<br>Lecturer, Department of Psychiatry, Fairview University Medical<br>Center, University of Minnesota, Minneapolis, MN                           |

| April 28, 2001     | "Spirituality and Health". The Spiritual Adventure Conference. Omega<br>Institute, New York, NY.  |
|--------------------|---|
| April 28, 2001     | "Why God Won't Go Away". The Spiritual Adventure Conference. Omega<br>Institute, New York, NY.  |
| May 30, 2001       | "Wired to God: The Connection Between the Brain and God". Cathedral for the Episcopal Diocese of Pennsylvania Spring Lecture Series. Philadelphia, PA.  |
| June 2, 2001       | "A Neuropsychological Analysis of Spiritual Experience". Summit for Clinical<br>Excellence: Innovations in Addiction Treatment and Behavioral Health<br>Care. Philadelphia, PA.                         |
| June 2, 2001       | "Why God Won't Go Away: The Biology of Belief". Summit for Clinical<br>Excellence: Innovations in Addiction Treatment and Behavioral Health<br>Care. Philadelphia, PA.                                  |
| June 3, 2001       | "A Neuropsychological Analysis of Spiritual Experience". Neuroscience,<br>Religious Experience, and the Self. CTNS Science & Religion<br>Course Program. Montreal, Canada                               |
| June 16, 2001      | "Physical and Mental Health in Relation to Spirituality: Clinical and Research<br>Perspectives". Complementary Medicine 2001: From Evidence to<br>Integration. University of Toronto, Toronto, Ontario. |
| August 16, 2001    | "Why God Won't Go Away: The Biology of Belief". The Ross Institute. East Hampton, NY.   |
| September 19, 2001 | "Neuropsychology of Religious Experience: Exploring the Link Between<br>Religion and Health". Philadelphia College of Osteopathic Medicine.<br>Philadelphia, PA   |
| October 2, 2001    | "Imaging Spirituality". Radiology Grand Rounds. University of<br>Pennsylvania Health System, Philadelphia, PA   |
| October 3, 2001    | "The Neuropsychology of Religious Experience: Implications for<br>Theology and Religious Studies". Colloquium for the Department of<br>Religious Studies. University of Pennsylvania, Philadelphia, PA  |
| October 13, 2001   | "The Neuropsychology of Religious Experience". Guest Lecturer for<br>Organizational Dynamics Course. University of Pennsylvania,<br>Philadelphia, PA  |

| October 21, 2001  | "Why God Won't Go Away". Pickwick Salon Presentation for the Free Library of Phildelphia, Philadelphia, PA (October 21, 2001).   |
|-------------------|--|
| October 25, 2001  | "Balancing Work, Marriage, and Children". FOCUS Health Seminar<br>Series, Hospital of the University of Pennsylvania, Philadelphia, PA   |
| November 1, 2001  | "Functional Brain Imaging in Neuropsychiatric Disorders". Grand<br>Rounds, Department of Neurosurgery. Hospital of the University of<br>Pennsylvania, Philadelphia, PA                                 |
| November 8, 2001  | "The Neuropsychology of Religious Experience: Why God Won't Go<br>Away". Guest Lecturer. Introduction to Medical Anthropology<br>Course. University of Pennsylvania, Philadelphia, PA                  |
| November 14, 2001 | "The Neuropsychology of Religious Experience". CAM Seminar Series,<br>Center for Complementary and Alternative Medicine. Johns Hopkins<br>University Hospital, Baltimore, MD                           |
| December 3, 2001  | "The Neuropsychology of Religious Experience: Why God Won't Go<br>Away". Spirituality in Healthcare Dialogue, William Temple<br>Episcopal Center. University of Texas Medical Branch, Galveston,<br>TX |
| December 12, 2001 | "Why God Won't Go Away". Har Zion Synagogue Adult Education Program,<br>Philadelphia, PA.  |
| January 13, 2002  | "Why God Won't Go Away". Health Care Professionals' Division of the Jewish<br>Federation of Southern New Jersey's Allied Jewish Appeal. Cherry Hill,<br>NJ.  |
| February 10, 2002 | "Spirituality: The Connection to Physical and Mental Health". Mind, Body & Medicine Conference, 92 <sup>nd</sup> Street Y. New York, NY.   |
| February 20, 2002 | "States of Consciousness and Clinical Implications". Guest Lecturer,<br>Doctors in Medicine Course, Jefferson Health System School of<br>Medicine, Philadelphia, PA                                    |
| February 21, 2002 | "Why God Won't Go Away". Greek Orthodox Society Distinguished Lecture<br>Series, University of Pennsylvania, Philadelphia, PA (February 21, 2002).   |
| February 26, 2002 | "The Neurobiology of Religious Experience: Why God Won't Go Away".<br>Distinguished Lecturer Series, Department of Psychology, Haverford<br>College, Haverford, PA                                     |

| February 27, 2002 | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>American Association for the Advancement of Science, Public<br>Seminar Series. Washington, DC  |
|-------------------|---|
| March 20, 2002    | "Why God Won't Go Away: Brain Science and the Biology of Belief". Old Donation Episcopal Church. Norfolk, VA.   |
| March 20, 2002    | "Why God Won't Go Away: Brain Science and the Biology of Belief". St.<br>Paul's Episcopal Church. Virginia Beach, VA.   |
| March 23, 2002    | "Spirituality, the Brain, and God". The Greater Philadelphia Philosophy<br>Consortium, The 8 <sup>th</sup> Annual Public Issues Forum: A Dialogue on<br>Science and Spirituality: Exploring the Emerging Integrative<br>Paradigms. Haverford College, Haverford, PA.                  |
| March 23, 2002    | "Spirituality, the Brain, and God". The Greater Philadelphia Philosophy<br>Consortium, The 8 <sup>th</sup> Annual Public Issues Forum: A Dialogue on Science<br>and Spirituality: Exploring the Emerging Integrative Paradigms. Haverford<br>College, Haverford, PA (March 23, 2002). |
| March 26, 2002    | "Perspectives on Neuroscience and Theology". Spirituality Research<br>Symposium, University of Pennsylvania. Philadelphia, PA.  |
| March 29, 2002    | "Careers in Neuroscience". Clinical Neuroscience Track Seminar,<br>University of Pennsylvania School of Medicine. Philadelphia, PA  |
| April 8, 2002     | "The Neurochemical Correlates of Meditation". Toward a Science of<br>Consciousness Conference, University of Arizona. Tucson, AZ.   |
| May 4, 2002       | "A Neuropsychological Analysis of Religion; Why God Won't Go<br>Away". Harvard Medical School Department of Continuing<br>Education: Science and Mind/Body Medicine Conference.<br>Cambridge, MA.   |
| June 14, 2002     | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Spirituality and Health Seminar Series, Howard University,<br>Washington, DC.  |
| June 23, 2002     | "Hardwired for God: A Neuropsychological Model for Developmental<br>Spirituality". Hardwired to Connect: Commission on Children at Risk<br>Working Conference, Dartmouth Medical School, New Hampshire.   |
| August 24, 2002   | "The Neuropsychological Correlates of the Self in Religious Experience".<br>Science and the Spiritual Quest Symposium, Center for Theology and the<br>Natural Sciences, Granada Spain.  |

| September 12, 2002 | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Memorial Health Lecture Series. Savannah, Georgia.  |
|--------------------|--|
| September 24, 2002 | "Why God Won't Go Away: Brain Science and the Biology of Belief". Integris<br>Health System Women's Health Forum, Oklahoma City, OK.   |
| September 25, 2002 | "Imaging Spirituality" Guest Lecturer, Department of Psychiatry, Integris<br>Baptist Medical Center. Oklahoma City, Oklahoma.  |
| October 7, 2002    | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Chestnut Hill College, Chestnut Hill, PA.   |
| October 24, 2002   | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Languages Sacred and Profane Series, Sponsored by The Catholic<br>Studies Program and the Faculty of Languages and Linguistics.<br>Georgetown University, Washington, DC. |
| January 9, 2003    | "Brain, Mind, and Soul: Science at the Limits". Grand Rounds,<br>Department of Neurosurgery. Hospital of the University of<br>Pennsylvania, Philadelphia, PA.  |
| February 20, 2003  | "Spirituality and Pain". Symposium presenter, American Academy of Pain<br>Medicine, Annual Meeting, New Orleans, LA.   |
| April 2, 2003      | "Spirituality and Neurobiology". Integrating Research on Spirituality and<br>Health and Well-Being Into Service Delivery: A Research<br>Conference, Natcher Conference Center, National Institutes of Health<br>Campus, Bethesda, MD.          |
| April 10, 2003     | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Thomas P. Johnson Distinguished Lecturer, Rollins College, Winter<br>Park, FL.  |
| April 24, 2003     | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Honors Society Guest Lecturer. Albright College, Reading, PA.   |
| May 1, 2003        | "Why God Won't Use Statistics". Clinical Epidemiology Seminars /<br>Health Services Research Lecture, Center for Clinical Epidemiology<br>and Biostatistics. University of Pennsylvania, Philadelphia, PA.                                     |
| June 21, 2003      | "Molecular Imaging in Nuclear Medicine from Head to Toe". Eugene P.<br>Pendergrass Symposium, Department of Radiology. University of<br>Pennsylvania, Philadelphia, PA.  |
| September 5, 2003  | "Spirituality and Pain: Exploring the Link". Keynote Speaker. American<br>Academy of Pain Management Annual Meeting. Denver, CO.   |

| September 12, 2003 | "Research in Mind Body Medicine". Complementary and Alternative<br>Medicine Research Seminar. University of Pennsylvania Health<br>System. Philadelphia, PA.   |
|--------------------|--|
| October 8, 2003    | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Penn Humanities Forum. University of Pennsylvania. Philadelphia,<br>PA.   |
| November 6, 2003   | "Why God Won't Go Away: Brain Science and the Biology of Belief". 9th<br>Norman Vincent Peale Lecture, Hershey Medical Center, Penn State<br>College of Medicine. Hershey, PA.   |
| November 20, 2003  | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Medical University of South Carolina, Spirituality and Health Interest<br>Group. Charleston South Carolina.   |
| November 21, 2003  | "Why God Won't Go Away: The Neuropsychology of Religious<br>Experience". Grand Rounds, Department of Psychiatry. Medical<br>University of South Carolina. Charleston South Carolina.                                     |
| February 6, 2004   | "The Spiritual Side of Medicine". 7 <sup>th</sup> Annual Spirituality and Medicine<br>Seminar Series. Howard University Hospital. Washington DC.   |
| February 27, 2004  | "Why God Won't Go Away: The Neuropsychology of Religious<br>Experience". Trzesniewski Distinguished Lecturer Series. University<br>of California, Davis. Davis, CA   |
| April 14, 2004     | "PET Imaging in Therapy". Image-Guided Radiation Therapy. American<br>Association of Physicists in Medicine, Delaware Valley Chapter. CME<br>Program. Philadelphia, PA.  |
| April 21, 2004     | "Why God Won't Go Away: The Neuropsychology of Religious<br>Experience". Gallagher Distinguished Lecturer Series. Albright<br>College. Reading, PA   |
| May 14, 2004       | "The Role of PET Scanning in the Diagnosis and Staging of NSCLC". Update<br>in the Multidisciplinary Management of Early-stage Non-small Cell Lung<br>Cancer. CME Program. University of Pennsylvania, Philadelphia, PA. |
| May 20, 2004       | "Neuroimaging as Support for the Study of Spirituality and Health".<br>Spirituality Research Symposium, Presbyterian Medical Center.<br>Philadelphia, Pennsylvania.  |

| August 28, 2004   | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Emotional Transformation Therapy Annual Conference.<br>Philadelphia, Pennsylvania.   |
|-------------------|---|
| October 7, 2004   | "Why God Won't Go Away". Liberal Studies Program Lecture Series.<br>Rutgers University. Camden, New Jersey.   |
| October 28, 2004  | "PET in Oncology". Pennsylvania Hospital Oncology Group Monthly<br>Seminar. Philadelphia, Pennsylvania.   |
| November 10, 2004 | "Guest Lecturer". Freshman Seminar in Religious Studies. Washington<br>University. St. Louis, Missouri.   |
| November 10, 2004 | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Religion in Medicine Symposium. Washington University. St. Louis,<br>Missouri.   |
| November 11, 2004 | "The Neurobiology of Spiritual Experiences". 16th Annual Advances in<br>Psychiatry Continuing Medical Education Program. University of<br>Michigan School of Medicine. Ann Arbor, Michigan.   |
| December 2, 2004  | "PET in Head and Neck Cancer". Grand Rounds, Department of<br>Otorhinolaryngology. University of Pennsylvania School of<br>Medicine. Philadelphia, Pennsylvania.  |
| December 9, 2004  | "Why God Won't Go Away: Neuroscience, Brain Function and Spiritual<br>Expression". Annual Symposium entitled, Illness Narratives:<br>Embracing the Spiritual and Emotional in Healthcare Conversations.<br>Thomas Jefferson University. Philadelphia, Pennsylvania. |
| March 10, 2005    | "Neuroimaging, Psychiatry, and God". Grand Rounds, Department of<br>Psychiatry. University of Pennsylvania School of Medicine.<br>Philadelphia, Pennsylvania.   |
| April 1, 2005     | "Why Morality Won't Go Away". 8th National Undergraduate Bioethics<br>Conference. University of Pennsylvania. Philadelphia, Pennsylvania.   |
| April 2, 2005     | "Brain Imaging Technologies". 8th National Undergraduate Bioethics<br>Conference. University of Pennsylvania. Philadelphia, Pennsylvania.   |
| April 12, 2005    | "How do you measure God? Methodological Problems for the Study of<br>Religious Experience". Seminar at Saint Thomas Moore Chapel,<br>Yale University. New Haven, Connecticut.   |

| April 12, 2005     | "Is God Good for you? Effects of Religion on Physical and Mental Health".<br>Seminar at Saint Thomas Moore Chapel, Yale University. New<br>Haven, Connecticut.   |
|--------------------|--|
| April 12, 2005     | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Thomas E. Golden Fellowship Lecture. Yale University. New Haven,<br>Connecticut.  |
| April 25, 2005     | "The Intersection Between Science and Religion". Robert A. Fox<br>Leadership Program. University of Pennsylvania. Philadelphia,<br>Pennsylvania.   |
| April 29, 2005     | "Why God Won't Go Away: Brain Science and the Biology of Belief". Temple Sinai, Summit, NJ.  |
| May 9, 2005        | "Why God Won't Go Away". Guest Lecturer. Reconstructionist<br>Rabinnical College. Wyncote, Pennsylvania.   |
| May 11, 2005       | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Episcopal Academy Community Forum. Merion, Pennsylvania.  |
| June 7, 2005       | "Spiritual Development During Childhood: A Neuropsychological Model".<br>8 <sup>th</sup> Annual Spirituality Research Symposium. Children's Hospital,<br>Philadelphia, PA.                               |
| June 30, 2005      | "Spirituality and Cardiovascular Health". Cardiology Grand Rounds,<br>Presbyterian Hospital. Philadelphia, PA.   |
| July 31, 2005      | "The Neuropsychology of Spiritual Transformation". Institute for Religion<br>in an Age of Science, 52 <sup>nd</sup> Annual Conference, Star Island, NH.  |
| September 21, 2005 | "Measuring Faith: How Religion and Spirituality Influence Substance<br>Abuse". Panel Discussion, National Center on Addiction and<br>Substance Abuse at Columbia University Conference, New York,<br>NY. |
| October 6, 2005    | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Dickinson College, Carlisle, PA.  |
| November 2, 2005   | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Vivian J. Lamb Lecture Series, Villanova University, Villanova, PA.   |
| July 31, 2005      | "The Neuropsychology of Spiritual Transformation". Institute for Religion<br>in an Age of Science, 52 <sup>nd</sup> Annual Conference, Star Island, NH.  |

| December 2, 2005   | "Impact on Our Health of What We Believe". Tai Sophia Institute Annual<br>Academic Symposium, Laurel, MD.   |
|--------------------|---|
| February 3, 2006   | "Neuroimaging, Psychiatry, and God". Psychiatry Grand Rounds, Temple<br>University Hospital. Philadelphia, PA.  |
| March 22, 2006     | "Neuroimaging in Complementary and Alternative Medicine". CAM<br>Symposium. Hospital of the University of Pennsylvania, Philadelphia,<br>PA.                      |
| March 27, 2006     | "Why God Won't Go Away". Guest Lecturer, Rhodes College, Memphis,<br>TN.  |
| April 25, 2006     | "The Neurophysiological Correlates of Beliefs". 9th Annual Spirituality<br>Research Symposium. Hospital of the University of Pennsylvania,<br>Philadelphia, PA.   |
| May 18, 2006       | "Neuroimaging, Psychiatry, and God". Psychiatry Grand Rounds, Drexel<br>University Hospital. Philadelphia, PA.  |
| May 22, 2006       | "Spirituality and Physical/Mental Health: Clinical and Research<br>Perspectives". Olaus Petri Lectures, Uppsala University, Uppsala,<br>Sweden.                   |
| May 23, 2006       | "The Neuropsychology of Forgiveness". Olaus Petri Lectures, Uppsala<br>University, Uppsala, Sweden.   |
| May 24, 2006       | "Why We Believe What We Believe: The Relationship Between Theology<br>and Neuroscience". Olaus Petri Lectures, Uppsala University,<br>Uppsala, Sweden.            |
| July 28, 2006      | "Functional Neuroimaging in Galactosemia". 2006 Galactosemia<br>Conference, Philadelphia, PA.   |
| August 21-25, 2006 | "Mind, Brain and Spirituality: Exploring the Link". 5 day continuing education course. Cape Cod Institute, Cape Cod, MA.  |
| September 15, 2006 | "Why We Believe What We Believe: How Our Beliefs Affect Health".<br>Integrative Medicine Grand Rounds. Thomas Jefferson University<br>Hospital, Philadelphia, PA. |
| October 3, 2006    | "Why We Believe What We Believe: Uncovering Our Biological Need for<br>Meaning". Frazee Lecture. Linfield College, Minnefield, OR.                                |
| October 4, 2006    | "Why We Believe What We Believe". Center for Theology and the Natural Sciences, Public Forum. Berkeley, CA.   |

| October 5, 2006   | "Why We Believe What We Believe". Canyon Institute for Advanced<br>Studies, Public Lecture Series. Phoenix, AZ.   |
|-------------------|---|
| October 19, 2006  | "Neuroimaging, Psychiatry, and God". Psychiatry Grand Rounds,<br>Pennsylvania Hospital. Philadelphia, PA.   |
| October 19, 2006  | "Why We Believe What We Believe". Epic of Creation Lectures, Zygon<br>Center for Religion and Science. Chicago, IL.   |
| October 26, 2006  | "Where We Believe What We Believe". Interfaith Forum on Religion, Art,<br>and Architecture Annual Meeting. San Diego, CA.                                   |
| October 29, 2006  | "Why We Believe What We Believe". Mind Body Spirit Expo. Valley<br>Forge, PA.   |
| November 2, 2006  | "Why God Doesn't Use Biostatistics". 2006 Humanities and Social<br>Sciences Lecture. University of the Sciences in Philadelphia.<br>Philadelphia, PA.       |
| November 14, 2006 | "Neuroimaging, Psychiatry, and God". Barbour-Bonner Lecture<br>Department of Psychiatry, University of Virginia School of Medicine.<br>Charlottesville, VA. |
| November 15, 2006 | "Why We Believe What We Believe: How Beliefs Affect Health".<br>Medical Center Hour, University of Virginia School of Medicine.<br>Charlottesville, VA.     |
| December 20, 2006 | "PET Imaging in Lung Cancer". Cooper Oncology Grand Rounds. Cooper<br>Medical Center. Camden NJ.  |
| January 26, 2007  | "The Neuropsychology of Forgiveness". Firearm & Injury Center at Penn<br>Forum. Philadelphia, PA.   |
| March 1, 2007     | "Beliefs in Health". Council for Relationships Monthly Conference.<br>Philadelphia, PA.   |
| April 15, 2007    | "Why We Believe What We Believe". Delaware Dialogues on Science,<br>Ethics, and Religion. Wilmington, DE.   |
| June 16, 2007     | "Beliefs in Health". Mind, Body, and Health Conference. Upstate Medical University. Syracuse, NY.   |
| August 25, 2007   | "Neuroscience and the Mystical Mind". Beyond the Brain Conference.<br>Science and Medical Network. Bath Spa University. Bath, England.                      |

| September 26, 2007 | "Born to Believe: God, Science, and the Origin of Ordinary and<br>Extraordinary Beliefs". Princeton Lectures in Religion and<br>Cognition. Center for the Study of Religion. Princeton University,<br>Princeton, NJ.                                 |
|--------------------|--|
| October 1, 2007    | "The Neuroscience of Meditation". Smithsonian Associates Lecture Series<br>on Exploring Meditation: Meaning and Practice. Washington, DC.  |
| October 18, 2007   | "Born to Believe: God, Science and the Origin of Ordinary and<br>Extraordinary Beliefs". Arcadia University Distinguished Speaker<br>Series. Arcadia University. Glenside, PA.   |
| October 28, 2007   | "Meditation, Brain Imaging, and Alzheimer's Disease". Alzheimer's<br>Foundation of America. 2nd National Concepts in Care Conference.<br>Philadelphia, PA.   |
| November 6, 2007   | "Born to Believe: God, Science and the Origin of Ordinary and<br>Extraordinary Beliefs". Cabrini College Local Societies Initiative<br>Series. Cabrini College. Radnor, PA.  |
| December 5, 2007   | "Why We Believe What We Believe: How Our Beliefs Affect Our Health".<br>National Institute for the Clinical Application of Behavioral Medicine<br>2007 Annual Conference. Hilton Head, SC.   |
| January 14, 2008   | "Brain Imaging and the Neuroscientific Study of Religion". Research<br>Seminar Presentation. Cognitive Neuroscience Section in the National<br>Institute of Neurological Disorders and Stroke in the National<br>Institutes of Health. Bethesda, MD. |
| January 24, 2008   | "Born to Believe". Illahee Lecture Series, Illahee Institute. Portland, OR.  |
| April 16, 2008     | "Why We Believe What We Believe". American Visionary Art Museum<br>Lecture Series. Baltimore, MD.  |
| April 17, 2008     | "Why We Believe What We Believe: How Our Beliefs Affect Our Health".<br>Integrative Medicine Program Lecture Series. M.D. Anderson Cancer<br>Center. Houston, TX.  |
| April 29, 2008     | "Functional Brain Imaging in Parkinson's Disease". Translational Research<br>in Lewy Body Disorders Conference. Institute on Aging. University<br>of Pennsylvania. Philadelphia, PA.   |
| May 3, 2008        | "Why Belief in God Persists: Why We Believe What We Believe". The<br>Pew Forum on Religion and Public Life. Key West, FL.  |

| May 28, 2008       | "PET and SPECT Imaging in Neuropsychiatric Disorders". Neurology<br>Grand Rounds. University of Medicine and Dentistry of New Jersey.<br>Newark, NJ.   |
|--------------------|--|
| August 18-22, 2008 | "Spirituality, the Mind, and Beliefs". 5 day continuing education course.<br>Cape Cod Institute, Cape Cod, MA.   |
| September 11, 2008 | "Why God Doesn't Use Biostatistics: Science and the Study of the Mind,<br>the Body, and Spirituality". Beyond the Mind-Body Problem<br>Conference. United Nations, New York, NY.   |
| October 17, 2008   | "Why We Believe What We Believe: How Our Beliefs Affect Our Health".<br>2008 Turner Conference on Faith and Medicine. Ball Memorial<br>Hospital. Muncie, IN.   |
| November 6, 2008   | "Why We Believe What We Believe: How Our Beliefs Affect Our Health".<br>Spirituality and the Mind: Investigation and Application. 2008<br>Spiritual Care Research Conference. Mayo Clinic. Rochester, MN.                        |
| November 17, 2008  | "Why God Won't Go Away". 2008 Stoner Clark Lecture. California<br>Lutheran University. Thousand Oaks, CA.  |
| November 17, 2008  | "Why We Believe What We Believe". 2008 Stoner Clark Lecture.<br>California Lutheran University. Thousand Oaks, CA.   |
| February 5, 2009   | "How God Changes Your Brain". 2009 Brown Symposium: Science and<br>Religion: Conflict or Convergence. Southwestern University.<br>Georgetown, TX.  |
| March 14, 2009     | "Probing the Biology of Belief: Psychiatry, Neuroimaging, and God".<br>Keynote Speaker at the 2009 38 <sup>th</sup> Annual Meeting of the American<br>Association of Directors of Psychiatric Residency Training. Tucson,<br>AZ. |
| April 3, 2009      | "How God Changes Your Brain". Division 36 of the American<br>Psychological Association Annual Meeting. Loyola College.<br>Columbia, MD.  |
| April 5, 2009      | "Brain Wave Lecture Program". Rubin Museum of Art Lecture Series.<br>New York, NY.   |
| May 14, 2009       | "How God Changes Your Brain". Nour Foundation Lecture Series. New York, NY.  |
| May 21, 2009       | "The Aging Brain and Spiritual Capacity". 12th Annual Spirituality<br>Research Symposium. University of Pennsylvania. Philadelphia, PA.  |

| July 17, 2009    | "How God Changes Your Brain". Chautauqua Institution Annual Speaker<br>Series. Chautauqua, NY.   |
|------------------|--|
| October 1, 2009  | "How God Changes Your Brain". Spirituality, Theology, and Health<br>Seminar Guest Lecturer. Duke University School of Medicine.<br>Raleigh, NC.                          |
| December 2, 2009 | "Spirituality and Health". Thomas Jefferson University Guest Lecturer.<br>Philadelphia, PA.  |
| December 3, 2009 | "How God Changes Your Brain". American Anthropological Association.<br>Distinguished Lecture for the Society for the Anthropology of<br>Consciousness. Philadelphia, PA. |
| January 21, 2010 | "Why We Believe What We Believe: How Beliefs Affect Health". Bowles<br>Chapel Lecture Series. Memorial Hermann Healthcare System.<br>Houston, TX.                        |
| January 21, 2010 | "How God Changes Your Brain". Bowles Chapel Lecture Series.<br>Memorial Hermann Healthcare System. Houston, TX.  |
| April 22, 2010   | "Does Spirituality Change Your Brain?" Cousins Center for<br>Psychoneuroimmunology at UCLA. Los Angeles, CA.   |
| May 18, 2010     | "Meditation and Memory?" 13 <sup>th</sup> Annual Spirituality Research Symposium.<br>University of Pennsylvania. Philadelphia, PA.                                       |
| October 13, 2010 | "Beyond Belief: Is Religion in Our Genes?" Ohio State University Lecture<br>Series on The Intersection of Science and Faith. Columbus, OH.                               |
| October 22, 2010 | "Why We Believe What We Believe". 11 <sup>th</sup> Annual Spirituality and Health<br>Seminar. Chambersburg Hospital, Chambersburg, PA.                                   |
| October 22, 2010 | "Spirituality and Health: Clinical and Research Perspectives". 11th Annual<br>Spirituality and Health Seminar. Chambersburg Hospital,<br>Chambersburg, PA.               |
| October 22, 2010 | "Brain Imaging Cases in PET and SPECT" Society of Nuclear Medicine<br>Northeast Regional Meeting, Philadelphia, PA.  |
| October 26, 2010 | "Principles of Neurotheology". University of Pennsylvania Pastoral Care<br>Conference. University of Pennsylvania. Philadelphia, PA.                                     |
| November 5, 2010 | "How God Changes Your Brain" The Open Center Lecture Series. The Open Center. New York, NY.  |

| December 6, 2010   | "Principles of Neurotheology". Center for Consciousness and<br>Transformation Guest Lecture. George Mason University. Fairfax,<br>VA.                                    |
|--------------------|--|
| January 4, 2011    | "Principles of Neurotheology". Integrative Medicine Grand Rounds.<br>Thomas Jefferson University Hospital, Philadelphia, PA.   |
| January 5, 2011    | "Principles of Neurotheology". Spirituality, Religion, and Health Interest<br>Group. Hospital of the University of Pennsylvania. Philadelphia, PA.                       |
| March 30, 2011     | "Functional Brain Imaging with PET and SPECT: Clinical and Research<br>Perspectives". Radiology Grand Rounds. Thomas Jefferson<br>University Hospital, Philadelphia, PA. |
| April 6, 2011      | "God and the Brain: Where Do Science and Religion Meet?" Department<br>of Religious Studies Discussion Series. Michigan State University.<br>Lansing, MI.                |
| April 29, 2011     | "Principles of Neurotheology" 15 <sup>th</sup> Annual Academic Symposium. Siena<br>Women's Center. Molloy College. Rockville Centre, NY.                                 |
| September 23, 2011 | "Why God Won't Go Away". First United Methodist Church. Downers<br>Grove, IL.  |
| September 24, 2011 | "Why We Believe What We Believe". First United Methodist Church.<br>Downers Grove, IL.   |
| September 24, 2011 | "How God Changes Your Brain". First United Methodist Church. Downers<br>Grove, IL.   |
| September 24, 2011 | "Principles of Neurotheology". First United Methodist Church. Downers<br>Grove, IL.  |
| October 20, 2011   | "Definitions of Religion and Spirituality". Spirituality and Health Grand<br>Rounds. Thomas Jefferson University Hospital. Philadelphia, PA.                             |
| October 22, 2011   | "Maintaining a Healthy Brain". Philadelphia Corporation for Aging.<br>Senior Education Fair. Philadelphia, PA.   |
| October 25, 2011   | "Principles of Neurotheology". Driesen Lecturer, Reconstructionist<br>Rabbinical College of Philadelphia. Wyncote, PA.   |
| October 28, 2011   | "How God Changes Your Brain". Mind, Body, Spirit Expo. Oaks, PA.   |

| October 30, 2011  | "Principles of Neurotheology". 4th Annual Meeting of, The Judaism,<br>Science, and Medicine Group. Center for Ethics, Emory University.<br>Atlanta, GA.  |
|-------------------|--|
| November 12, 2011 | "Principles of Neurotheology". Applied Mindfulness Conference. West<br>Chester University. West Chester, PA.   |
| December 7, 2011  | "Neurotheology: God and the Brain". Medical Humanities Grand Rounds.<br>Drexel University School of Medicine. Philadelphia, PA.  |
| February 28, 2012 | "Bottom of the Cup Lecture Series". University of St. Thomas. Houston, TX.   |
| March 7, 2012     | "Principles of Neurotheology". Invited Lecture, Princeton University<br>Center for the Study of Religion. Princeton University. Princeton, NJ.   |
| March 29, 2012    | "Lifestyle and Brain Health: Promoting Brain Health Through Spirituality,<br>Socialization, and Mental Stimulation". American Society on Aging,<br>National Forum on Brain Health. Washington, DC. |
| May 11, 2012      | "Principles of Neurotheology". Invited Lecture. Center for Inquiry.<br>Buffalo, NY.  |
| May 14, 2012      | "Principles of Neurotheology". Graduate Studies Colloquium. Brown<br>University. Providence, RI.   |
| June 11, 2012     | "The Spiritual Brain: Implications for Spirituality and Medicine".<br>Spirituality and Medicine Seminar. Vidant Health System. Greenville,<br>NC.  |
| June 11, 2012     | "Biology of Belief: How God Changes Your Brain". Spirituality and<br>Medicine Seminar. Vidant Health System. Greenville, NC.   |
| June 11, 2012     | "Biology of Belief: How God Changes Your Brain". Spirituality and<br>Medicine Seminar. Vidant Health System. Greenville, NC.   |
| November 4, 2012  | "How God Changes Your Brain". 38th Annual Yoga Research Society<br>Symposium. Philadelphia, PA.  |
| November 6, 2012  | "Communication in Health and Wellness: How Words Can Change Your<br>Brain". Integrative Medicine Grand Rounds. Thomas Jefferson<br>University. Philadelphia, PA.                                   |
| November 13, 2012 | "Neuroimaging, Psychiatry, and God". Psychiatry Grand Rounds. Cooper<br>University Hospital. Camden, NJ.   |

| December 14, 2012 | "Spirituality and the Brain: Implications for Neurology". Neurology Grand<br>Rounds. Thomas Jefferson University. Philadelphia, PA.   |
|-------------------|---|
| January 17, 2013  | "Meditation and Neurodegenerative Disease". Advances in Meditation<br>Research: Neuroscience and Clinical Applications. New York<br>Academy of Sciences. New York, NY.  |
| January 19, 2013  | "Communication In Health and Wellness: How Words Can Change Your<br>Brain and Develop Your Leadership Potential". Clinical Nursing<br>Leadership Summit. American Association of Colleges of Nursing.<br>New Orleans, LA. |
| March 5, 2013     | "Beliefs, Brain Science, and Neurotheology Across the Lifespan". Guest<br>Lecturer. Richard Stockton College of NJ. Galloway, NJ.   |
| March 16, 2013    | "Principles of Neurotheology". Institute for Religion and Science Lecture.<br>Chestnut Hill College. Chestnut Hill, PA.   |
| March 20, 2013    | "Neuroimaging, Psychiatry, and God II". Psychiatry Grand Rounds,<br>Temple University Hospital. Philadelphia, PA.   |
| April 17, 2013    | "Functional Brain Imaging in Neurodegenerative Diseases". Radiology<br>Department Guest Lecture. Thomas Jefferson University Hospital.<br>Philadelphia, PA.   |
| May 19, 2013      | "The Neuropsychology of Forgiveness: How Words Can Change Your<br>Brain". Philadelphia Society for Clinical Hypnosis. Philadelphia, PA.   |
| May 22, 2013      | "Meditation and Brain Health". Cummings Centre Program. Montreal,<br>Quebec.  |
| June 22, 2013     | "Words Can Change Your Brain". The Open Center Guest Lecture. New York, NY.   |
| July 23, 2013     | "Neurotheology: The Connection Between God, Your Brain, and Health".<br>Pennsylvania Lupus Foundation Annual Meeting. Drums, PA.  |
| October 14, 2013  | "Lectures on Neurotheology: The Connection of Neuroscience and<br>Religious Beliefs". Pennsylvania Society of Chaplains Annual<br>Conference. Carlisle, PA.   |
| October 25, 2013  | "This is Your Brain on Spirituality: Neurotheology Explored". Chrysalis<br>Institute. Richmond, VA.   |
| October 26, 2013  | "Consciousness At Many Levels". Chrysalis Institute. Richmond, VA.  |

| October 30, 2013  | "How God Changes Your Brain". Georgetown University. Catholic<br>Studies Program. Washington, DC.  |
|-------------------|--|
| November 7, 2013  | "Principles of Neurotheology". Texas Health Resources Attending Clergy<br>Association Annual Meeting. Texas Health Presbyterian Hospital.<br>Dallas, TX.             |
| November 8, 2013  | "Beliefs in Health". Texas Health Resources Attending Clergy Association<br>Annual Meeting. Texas Health Presbyterian Hospital. Dallas, TX.                          |
| November 8, 2013  | "How God Changes Your Brain". Texas Health Resources Attending<br>Clergy Association Annual Meeting. Texas Health Presbyterian<br>Hospital. Dallas, TX.              |
| January 24, 2014  | "Neuroimaging in Traumatic Brain Injury". 3rd Annual Neurocritical Care<br>Symposium: A Case-Based Approach. Thomas Jefferson University.<br>Philadelphia, PA.       |
| January 28, 2014  | "Spirituality and the Brain: Neuroscientific Perspectives". Guest Lecturer.<br>Center for Neuroscience and Society. University of Pennsylvania.<br>Philadelphia, PA. |
| February 5, 2014  | "Neurotheology and Positive Psychology". Guest Lecturer. New York<br>Open Center. New York, NY.  |
| February 26, 2014 | "How God Changes Your Brain". Guest Lecturer. Peachtree Road United<br>Methodist Church. Atlanta, GA.  |
| June 30, 2014     | "Spirituality, Psychology, and the Brain: Exploring the Link". Guest<br>Lecturer. School of Psychology, Interdisciplinary Center (IDC).<br>Herzliya, Israel.         |
| July 15, 2014     | "Why We Believe What We Believe: How Beliefs Affect Health".<br>Pennsylvania Lupus Foundation Annual Meeting. Drums, PA.   |
| September 2, 2014 | "Words Can Change Your Brain". Integrative Medicine Grand Rounds.<br>Thomas Jefferson University. Philadelphia, PA.  |
| October 8, 2014   | "Your Brain On God". Episcopal Diocese of Central New York Annual Meeting. Syracuse, NY.   |
| October 18, 2014  | "Why God Won't Go Away: Brain Science and the Biology of Belief".<br>Beaven Lecture. University of Rochester. Rochester, NY.   |

| November 12, 2014  | "Principles of Neurotheological Research". Invited Lecturer. Behavioral<br>Pharmacology Research Unit, Department of Psychiatry and<br>Behavioral Sciences. Johns Hopkins University School of Medicine.<br>Baltimore, MD. |
|--------------------|--|
| November 14, 2014  | "The Mystical Mind". Invited Lecturer. Department of Religion, Rice University. Houston, TX.   |
| November 15, 2014  | "Why God Won't Go Away". Guest Lecturer. Foundation for<br>Contemporary Theology. Houston, TX.   |
| February 22, 2015  | "Doctoral Conference Presentation". Department of Religion, Psychology<br>and Culture. Vanderbilt University. Nashville, TN.   |
| February 22, 2015  | "Wholeness: Exploring the Link Between the Brain and Spirituality". Key<br>Note Talk. National Association of College and University Chaplains<br>Annual Meeting. Nashville, TN.   |
| March 4, 2015      | "The Metaphysical Mind and Health". Spirituality, Religion, and Health<br>Interest Group. Hospital of the University of Pennsylvania.<br>Philadelphia, PA.   |
| March 17, 2015     | "How God Changes Your Brain". Key Note Talk. Central Conference of<br>American Rabbis Annual Meeting. Philadelphia, PA.  |
| September 15, 2015 | "The Biology of Belief". Guest Lecturer. Intellectual Heritage Program.<br>Temple University. Philadelphia, PA.  |
| October 4, 2015    | "Is the Human Brain Hard Wired for God". Guest Lecture. One Day<br>University Program. Philadelphia, PA.   |
| October 6, 2015    | "PET-MR Guided Integrative Medicine". Integrative Medicine Grand<br>Rounds. Thomas Jefferson University. Philadelphia, PA.   |
| November 6, 2015   | "Neuroimaging In Neurodegenerative Disorders". Neurology Grand<br>Rounds. Thomas Jefferson University. Philadelphia, PA.   |
| December 6, 2015   | "The Psychology of Religion: How God Changes Your Brain". Guest<br>Lecture. One Day University Program. New York, NY.  |
| December 9, 2015   | "Neurotheology: Exploring the Link Between Spirituality and Health".<br>Medicine Grand Rounds. Paoli Hospital. Paoli, PA.  |
| January 20, 2016   | "Religion, Art, and the Brain". Guest Lecture. Arthur Ross Gallery Series.<br>University of Pennsylvania. Philadelphia, PA.  |

| February 9, 2016   | "Principles of Neurotheology". Guest Lecture. New Perspectives on<br>Religious Experience Lecture Series. University of Pennsylvania.<br>Philadelphia, PA.            |
|--------------------|---|
| April 2, 2016      | "How Enlightenment Changes Your Brain". Keynote Speaker. Global<br>Philosophy Forum. Haverford College. Haverford, PA.  |
| April 14, 2016     | "The Spiritual Mind". 2016 Boardman Lecture. University of<br>Pennsylvania. Philadelphia, PA.   |
| June 27, 2016      | "Functional Brain Imaging With PET and SPECT". Princeton<br>Neuroscience Institute Clinical Seminar. Princeton University.<br>Princeton, NJ.                          |
| July 20, 2016      | "How Enlightenment Changes Your Brain". Pennsylvania Lupus<br>Foundation Annual Meeting. Drums, PA.   |
| September 23, 2016 | "How Enlightenment Changes Your Brain". Southern Headache Society<br>6th Annual Scientific Meeting. Mountain Area Health Education<br>Center, Asheville, NC.          |
| September 27, 2016 | "The Psychology of Religion: How God Changes Your Brain". Guest<br>Lecture. One Day University Program. Philadelphia, PA.   |
| October 23, 2016   | "Spirituality, the Brain, and Well Being". Plenary Speaker. Masters of<br>Applied Positive Psychology Annual Summit. University of<br>Pennsylvania, Philadelphia, PA. |
| October 29, 2016   | "How God Changes Your Brain". Keynote Speaker. Symposium at the<br>Institute for Theological Studies at St. Margaret's. Little Rock, AR.                              |
| November 20, 2016  | "The Brain and Spiritual Practices". Guest Lecture. St. Peter's Church.<br>Philadelphia, PA.  |
| December 6, 2016   | "Neuroimaging in Integrative Psychiatry". Integrative Medicine Grand<br>Rounds. Thomas Jefferson University. Philadelphia, PA.  |
| March 21, 2017     | "How God Changes Your Brain". Guest Lecture. Oakwood University.<br>Huntsville, AL.   |
| April 6, 2017      | "How Enlightenment Changes Your Brain: Implications for Education".<br>Key Note Lecture. New Jersey Association of Independent Schools<br>Conference. Gladstone, NJ.  |

| August 14, 2017    | "Faith and the Brain". Guest Lecturer. City of Philadelphia Department of<br>Behavioral Health & Intellectual disAbility Services. Philadelphia,<br>PA.                                       |
|--------------------|---|
| August 14, 2017    | "Principles of Neurotheology". Guest Lecturer. New Brunswick<br>Theological Seminary. Philadelphia, PA.   |
| September 28, 2017 | "Religion on the Brain". Guest Lecturer. Neuroscience and Society<br>Lecture Program. American Association for the Advancement of<br>Science. Washington, DC.                                 |
| February 7, 2018   | "Neurotheology: Future Directions and Implications". Guest Lecturer.<br>Spirituality, Religion, and Health Interest Group. Hospital of the<br>University of Pennsylvania. Philadelphia, PA.   |
| March 19, 2018     | "Principles of Neurotheology". Guest Lecturer. University of Pittsburgh<br>Brain Institute. Pittsburgh, PA.   |
| March 19, 2018     | "How Enlightenment Changes Your Brain". Guest Lecturer. University of<br>Pittsburgh Department of Religious Studies. Pittsburgh, PA.  |
| April 18, 2018     | "Neuroscience and Religious Experience". Wesley College Scholars Day<br>Program Key Note Lecture. Wesley College, Dover, DE.  |
| May 1, 2018        | "Neurotheology: How Science Can Enlighten Us about Spirituality". Main Line School Night. Villanova, PA.  |
| May 4, 2018        | "How Enlightenment Changes Your Brain". Key Note Lecturer.<br>Association for Comprehensive Energy Psychology Annual Meeting.<br>Orlando, FL.   |
| October 3, 2018    | "The Rabbi's Brain". Spirituality, Religion, and Health Interest Group.<br>Hospital of the University of Pennsylvania. Philadelphia, PA.  |
| October 26, 2018   | "Mind-Body Practices in Patients With Brain Tumors". 8 <sup>th</sup> Annual Brain<br>Tumor Symposium. Department of Neurosurgery. Thomas Jefferson<br>University Hospital. Philadelphia, PA.  |
| October 26, 2018   | "Diet and Nutrition in Patients With Brain Tumors". 8th Annual Brain<br>Tumor Symposium. Department of Neurosurgery. Thomas Jefferson<br>University Hospital. Philadelphia, PA.               |
| October 26, 2018   | "Integrative Medicine in Patients With Brain Tumors". 8 <sup>th</sup> Annual Brain<br>Tumor Symposium. Department of Neurosurgery. Thomas Jefferson<br>University Hospital. Philadelphia, PA. |

| November 1, 2018  | "Spirituality and Mental Health: Just How Crazy Is Crazy?". Distinguished<br>Speaker Series. Center for Contemplative Studies. West Chester<br>University. West Chester, PA.                              |
|-------------------|---|
| November 4, 2018  | "Neurotheology and Compassion". Parliament of the World's Religions<br>International Meeting. Toronto, ON.  |
| November 11, 2018 | "Neurotheology: Implications for Health & Wellness". Yoga Research<br>Society Annual Meeting. Philadelphia, PA.   |
| November 14, 2018 | "The Rabbi's Brain: Introduction to Jewish Neurotheology". Guest Lecture<br>for the Spirituality Mind Body Center, Teachers College, Columbia<br>University, New York, NY.                                |
| February 2, 2019  | "Spirituality in Medicine". Guest Speaker for the 2019 Humanism in<br>Medicine Conference, Thomas Jefferson University, Philadelphia,<br>PA.  |
| March 19, 2019    | "Brain Science and the Biology of Belief". Guest Speaker for the 2019<br>Brain Awareness Week Conference, Philadelphia Community<br>College, Philadelphia, PA.  |
| March 28, 2019    | "What Happens To Your Brain during Religious Experiences?". Guest<br>Speaker for the Center for Spiritual Well Being, Temple Beth<br>Sholom. Elkins Park, PA.   |
| March 30, 2019    | "The Neuroscience of Rituals, Contemplative Practices, and Trance<br>States". Key Note Speaker for the 2019 Expressive Therapies<br>Summit, UCLA. Los Angeles, CA.  |
| April 6, 2019     | "Integrative Medicine Research: An Update". Integrative Medicine Grand<br>Rounds. Thomas Jefferson University. Philadelphia, PA.  |
| April 10, 2019    | "Neuroimaging and the Mind/Body/Spirit Connection". Guest Speaker for<br>the Philadelphia Neurological Society, Philadelphia, PA.   |
| April 17, 2019    | "Neurotheology and Mental Health: How the Brain and Spirituality are<br>Related to Mental Health". Plenary Speaker for Integrative Mental<br>Health Conference, University of Arizona. San Francisco, CA. |
| April 28, 2019    | "The Jewish Brain: Neuroscience, Philosophy, Ritual, and Ethics". Guest<br>Lecture. One Day University Program. New York, NY.   |
| June 14, 2019     | "Neurotheology: How Science Can Enlighten Us About Spirituality".<br>Guest Lecture. Right Angle Club. Philadelphia, PA.   |

| August 7, 2019       | "A Neurotheological Perspective On Worship". Lecturer. Conference on<br>Worship and the Divine. Hebrew University. Jerusalem, Israel.   |
|----------------------|---|
| August 15, 2019      | "Is the Human Brain Hardwired for God?" Guest Lecture. One Day<br>University Program. Bryn Mawr College, Bryn Mawr, PA.   |
| September 28, 2019   | "Neurotheology and Health: Exploring the Brain, Body, and Spirit<br>Connection". Beyond Boundaries: Expanding the Science of Systems<br>Biology. 8th Annual Integrative Medicine Conference. University of<br>Miami Miller School of Medicine. Fort Lauderdale, FL. |
| October 18, 2019     | "God, Spirituality, and the Human Brain". Spirit and Science World<br>Forum. Temple of Good Will. Brasilia, Brazil.   |
| November 2, 2019     | "Current Research on Nutrients and Brain Health/Physiology". Advances<br>in Integrative Nutrition CME Conference. Thomas Jefferson<br>University. Philadelphia, PA.   |
| November 3, 2019     | "Nutrients as Pharmaceuticals: When Is It a Dietary Supplement or a<br>Pharmacological Intervention?" Advances in Integrative Nutrition<br>CME Conference. Thomas Jefferson University. Philadelphia, PA.   |
| November 11, 2019    | "Evidence-Based Nutritional Approaches to Preventing Cardiovascular<br>Disease". Integrative Medicine Grand Rounds. Thomas Jefferson<br>University. Philadelphia, PA.   |
| November 12, 2019    | "Neurotheology and Health: Exploring the Brain, Body, and Spirit<br>Connection". 2019 Stambaugh Lecture in Medical Humanities.<br>University of Louisville School of Medicine. Louisville, KY.  |
| November 19, 2019    | "Religion and the Brain: Exploring the New Field of Neurotheology".<br>Guest Lecturer, Your Brain and Your World Course. Johns Hopkins<br>Osher Lifelong Learning Institute. Gaithersburg, MD.  |
| December 8, 2019     | "How God Changes Your Brain". Guest Lecturer, Wilkes-Barre Jewish<br>Community Center. Wilkes-Barre, PA.  |
| December 11, 2019    | "Integrative Medicine and Psychiatry". Psychiatry Grand Rounds. Thomas<br>Jefferson University. Philadelphia, PA.   |
| February 15-17, 2020 | 0 "The Metaphysical Mind: Probing the Biology of Spiritual Experience".<br>Guest Lecturer. Sivananda Ashram Yoga Retreat. Bahamas.  |
| July 15, 2020        | "Integrative Medicine In Health and Well-Being". Family Medicine Grand<br>Grounds. Thomas Jefferson University. Philadelphia, PA.   |

| July 27, 2020      | "Spirituality and Physical/Mental Health: Clinical and Research<br>Applications". Psychiatry Grand Grounds. Penn Medicine, Princeton<br>Health. Princeton, NJ.   |
|--------------------|--|
| September 16, 2020 | "Introduction to Integrative Medicine". Main Line School Night.<br>Villanova, PA.  |
| October 29, 2020   | "How Spirituality Contributes Positively Towards Mental Health During a<br>Pandemic". Norwalk Hospital Spirituality and Medicine Grand<br>Rounds. Norwalk, CT.   |
| November 12, 2020  | "Spirituality and Health: Implications for Health and Well Being". The<br>Bernard Behrend Lecture. College of Physicians. Philadelphia, PA.  |
| January 9, 2021    | "How God Changes Your Brain". Key Note Lecture. Recharge Health<br>Retreat. Ananda Sangha Health Summit. India.  |
| January 14, 2021   | "Principles of Neurotheology". Guest Lecturer. York University<br>Neuroscience Research Group. Toronto, Canada.  |
| January 15, 2021   | "The Role of Integrative Medicine in the Brain Tumor Patient". 9 <sup>th</sup> Annual<br>Brain Tumor Symposium. Department of Neurosurgery. Thomas<br>Jefferson University Hospital. Philadelphia, PA. |
| March 3, 2021      | "How Enlightenment Changes Your Brain: New Ways of Knowing".<br>Guest Lecturer, Other Ways of Knowing Seminar. University of<br>Pennsylvania, Philadelphia, PA.  |
| March 4, 2021      | "Spiritual Practices and Brain Longevity: Imaging Research Revealed".<br>Guest Lecturer. Alzheimer's Research and Prevention Foundation.   |
| March 21, 2021     | "Meaning, Purpose, Well Being, and Brain Health". Guest Lecturer.<br>Science and Application of Brain Health Course. Harvard University.   |
| April 25, 2021     | "Neuroscience, Spiritual Experiences & Self-Transformation". Key Note<br>Lecturer. Science and Spirituality Course. The Weekend University.<br>United Kingdom.   |
| April 28, 2021     | "How God Changes Your Brain". Van Eerden Education and Research<br>Day Lecture. Pine Rest Christian Mental Health Services. Grand<br>Rapids, MI.   |
| April 28, 2021     | "Neurotheology and Mental Health". Van Eerden Education and Research<br>Day Lecture. Pine Rest Christian Mental Health Services. Grand<br>Rapids, MI.  |

| May 19, 2021       | "Brain Weaver: How To Obtain Optimal Brain Health". Main Line School<br>Night Guest Lecturer. Villanova, PA.  |
|--------------------|---|
| August 11, 2021    | "Your Brain on God: Implications for Mental Health". Guest Lecturer. 15 <sup>th</sup><br>Annual National Jewish Retreat. Atlanta, GA.                                 |
| September 22, 2021 | "Journeying through Hope and Ambivalence". Schwartz Center Rounds<br>Panelist. Thomas Jefferson University. Philadelphia, PA.   |
| October 20, 2021   | "How Enlightenment Changes Your Brain". Key Note Speaker.<br>SelectScience Virtual Neuroscience Summit 2021.  |
| November 7, 2021   | "The Rabbi's Brain: Exploring the Connection Between the Brain and<br>Jewish Thought". Guest Lecturer. Kesher Israel Synagogue. West<br>Chester, PA.                  |
| December 18, 2021  | "Neurotheology and the Exploration of Consciousness: Latest Findings."<br>Key Note Presentation. Society for Consciousness Studies 2021<br>Annual Conference, Online. |
| March 2, 2022      | "Principles of Neurotheology". Guest Lecturer, Medical Research Scholars<br>Program. Yale University. New Haven, CT.  |
| April 26, 2022     | "Spirituality and the Brain: Exploring the Field of Neurotheology". Guest Lecturer, Sir Arthur Conan Doyle Centre. Edinburgh, Scotland.                               |
| April 27, 2022     | "Meaning, Purpose, Well Being, and Brain Health". Guest Lecturer.<br>Science and Application of Brain Health Course. Harvard University.                              |
| May 21, 2022       | "Principles of Neurotheology". Key Note Lecturer. BrainEE Online<br>Conference. Tehran University, Tehran, Iran.  |
| June 28, 2022      | "Identity and the Brain: The Biological Basis of Our Self". Key Note<br>Lecturer. Institute for Religion in an Age of Science, Annual<br>Conference, Star Island, NH. |
| July 11, 2022      | "Varieties of Spiritual Experience: Implications for Health and Wellness".<br>Integrative Medicine Grand Rounds. Thomas Jefferson University.<br>Philadelphia, PA.    |
| August 10, 2022    | "What G-d Does to Your Brain". National Jewish Retreat Key Note Speaker. Miami, FL.   |
| September 1, 2022  | "Foundations in Neurotheology: From Philosophical to Practical".<br>Saybrook University Residential Conference Key Note Speaker.<br>Pasadena, CA.                     |

| October 10, 2022  | "Integrative Medicine Research Update". Integrative Medicine Grand<br>Rounds. Thomas Jefferson University. Philadelphia, PA.   |
|-------------------|--|
| October 11, 2022  | "Functional Brain Imaging in Neurodegenerative Disorders". Speaker at<br>Nuts and Bolts of Cognitive Decline Online Conference. Lankenau<br>Hospital Philadelphia, PA. |
| October 11, 2022  | "Functional Brain Imaging in Neurodegenerative Disorders". Speaker at<br>Nuts and Bolts of Cognitive Decline Online Conference. Lankenau<br>Hospital Philadelphia, PA. |
| October 16, 2022  | "Mystical Experiences and the Brain." Keynote Speaker at Symposium on<br>Anxiety, Depression, and Spirituality. Tokyo, Japan.  |
| December 17, 2022 | "Neurotheology and the Exploration of Consciousness: Latest Findings."<br>Key Note Presentation. Society for Consciousness Studies 2022<br>Annual Conference, Online.  |

#### **Organizing Roles in Scientific Meetings:**

July 30-August 6, 2005 Co-chair of Annual Meeting for the Institute for Religion in an Age of Science, Star Island, NH.

#### **Bibliography:**

#### **Research Publications (peer reviewed):**

- Alavi A, **Newberg AB**, Souder E, Reivich M. Comparison of quantitative MRI and PET between patients with dementia of the Alzheimer type and multi-infarct dementia. *Journal of Stroke and Cerebrovascular Disease* 2: 218-221, 1992.
- Kumar A, Newberg AB, Alavi A, Smith R, Berlin J, Reivich M. Regional cerebral glucose metabolism in late life depression and Alzheimer's disease: A preliminary positron emission tomography study. *Proceedings of the National Academy of Sciences* 90:7019-7023, 1993.
- Alavi A, Newberg AB, Souder E, Berlin J. Quantitative analysis of PET and MRI data in normal aging and Alzheimer's disease: Atrophy weighted total brain metabolism and absolute whole brain metabolism as reliable discriminators. *Journal of Nuclear Medicine* 34:1681-1687, 1993.
- d'Aquili EG, **Newberg AB**. Religious and mystical states: a neuropsychological model. *Zygon* 28: 177-200, 1993.

- d'Aquili EG, Newberg AB. Liminality, trance and unitary states in ritual and meditation. *Studia Liturgica* 23: 2-34, 1993.
- Kumar A, Newberg AB, Alavi A, Miller D, Berlin J, Gur RE, Gottlieb G. MRI volumetric measures in Alzheimer's disease: Relationship to clinical and neuropsychological variables. *American Journal of Geriatric Psychiatry* 2:21-31, 1994.
- **Newberg AB**. Changes in the central nervous system and their clinical correlates during long-term space flight. *Aviation, Space, and Environmental Medicine* 65:562-572, 1994.
- **Newberg AB**, d'Aquili EG. The near death experience as archetype: A model for prepared neurocognitive processes. *Anthropology of Consciousness* 5:1-15, 1994.
- **Newberg AB**. Space motion sickness (reply). *Aviation, Space, and Environmental Medicine* 66:87, 1995. [letter]
- **Newberg AB**, Alavi A. The study of the neurological disorders using positron emission tomography and single photon emission computed tomography. *Journal of the Neurological Sciences* 135:91-108, 1996.
- **Newberg AB**, Alavi A. The study of the brain using PET and SPECT: Implications for space and underwater neurology. *Journal of the Neurological Sciences* 136:1-9, 1996.
- d'Aquili EG, Newberg AB. Consciousness and the machine. Zygon 31:235-252, 1996.
- Alavi A, **Newberg AB**. Metabolic consequences of acute brain trauma: Is there a role for PET? *Journal of Nuclear Medicine* 37:1170-1172, 1996.
- Newberg AB, Alavi A. Neuroimaging in patients with traumatic brain injury. *Journal of Head Trauma Rehabilitation* 11(6):65-79, 1996.
- Newberg AB, d'Aquili EG. Unitary states, free will and ultimate reality. *Ultimate Reality and Meaning* 19(4):298-311, 1996.
- Kumar A, Miller D, Ewbank D, Yousem D, Newberg A, Samuels S, Cowell P, Gottlieb G. Quantitative anatomic measures and comorbid medical illness in late-life major depression. *American Journal of Geriatric Psychiatry* 5(1):15-25, 1997.
- Newberg AB, Newberg SK, d'Aquili EG. The philosophy and psychology of consciousness. *American Psychologist* 52(2):177-178, 1997.

- Mozley PD, Sadek AM, Alavi A, Gur RC, Muenz LR, Bunow BJ, Kim H-J, Stecker M, Jolles P, Newberg A. Effects of aging on the cerebral distribution of technetium-99m hexamethylpropylene amine oxime in healthy humans. *European Journal of Nuclear Medicine* 24:754-761, 1997.
- Alavi A, LaRiccia PJ, Sadek AH, Newberg AB, Lee L, Reich H, Lattanand C, Mozley PD. Neuroimaging of acupuncture in patients with chronic pain. *Journal of Alternative and Complementary Medicine* 3(suppl 1):S47-S53, 1997.
- Alavi A, Mirot A, Newberg A, Alves W, Gosfield T, Reivich M, Gennarelli T. F-18 PET evaluation of crossed cerebellar diaschisis in head injury. *Journal of Nuclear Medicine* 38(11):1717-1720, 1997.
- **Newberg AB**, Newberg SK. Incorporating stress management into clinical practice. *Hospital Physician* 34(6): 52-58, 1998.
- **Newberg AB**, Alavi A. Changes in the central nervous system during long-duration space flight: Implications for neuroimaging. *Advances in Space Research* 22(2):185-196, 1998.
- **Newberg AB**, Alavi A, Bhatnagar A, Baime M, d'Aquili E. The neurophysiological correlates of meditation: Implications for neuroimaging. *Journal of the Indian Academy of Clinical Medicine* 3:13-18, 1998.
- d'Aquili EG, **Newberg AB**. The neuropsychology of aesthetic, spiritual and mystical states. *Zygon* 35(1): 39-52, 2000.
- Newberg AB, d'Aquili EG. The creative brain / The creative mind. *Zygon* 35(1): 53-68, 2000.
- **Newberg AB**, Alavi A, Alavi J. Contralateral cortical diaschisis in a patient with cerebellar astrocytoma after radiation therapy. *Clinical Nuclear Medicine* 25(6): 431-433, 2000.
- Newberg AB, Mozley PD, Sadek AH, Grossman M, Alavi A. The regional cerebral distribution of [Tc-99m] HMPAO in patients with progressive aphasia. *Journal of Neuroimaging* 10:162-168, 2000.
- Buchpiquel C, Alavi A, Crawford D, Freeman E, Newberg AB. Changes in cerebral blood flow associated with premenstrual syndrome: a preliminary study. *Journal of Psychosomatic Obstetrics and Gynecology* 21: 157-165, 2000.
- **Newberg AB**, d'Aquili EG. The neuropsychology of religious and spiritual experience. *Journal of Consciousness Studies* 7(11-12): 251-266, 2000.

- **Newberg A**, Alavi A, Berlin J, Mozley PD, O'Connor M, Sperling M. Ipsilateral and contralateral thalamic hypometabolism as a predictor of outcome following temporal lobectomy for seizures. *Journal of Nuclear Medicine* 41: 1964-1968, 2000.
- Newberg AB, Alavi A, Baime M, Pourdehnad M, Santanna J, d'Aquili EG. The measurement of regional cerebral blood flow during the complex cognitive task of meditation: A preliminary SPECT study. *Psychiatry Research: Neuroimaging* 106: 113-122, 2001.
- Yun M, Yeh D, Araujo L, Jang S, **Newberg A**, Alavi A. F-18 FDG uptake in the large arteries: a new observation. *Clinical Nuclear Medicine* 26: 314-319, 2001.
- Litt H, Sinha P, **Newberg AB**. Demonstration of uterus didelphys on renal transplant scan in a patient with multiple cloacal anomalies. *Clinical Nuclear Medicine* 26(3):259-60, 2001.
- **Newberg A**. The neuropsychology of ritual and meditative states. *Psyche & Geloof* 4:174-183, 2002.
- Yun M, Jang S, Cucchiara A, Newberg A, Alavi A. 18F FDG uptake in the large arteries: a correlation study with the atherogenic risk factors. *Seminars in Nuclear Medicine* 32(1):70-6, 2002.
- Newberg A, Hassan A, Alavi A. Cerebral metabolic changes associated with Lyme disease. *Nuclear Medicine Communications* 23:773-777, 2002.
- **Newberg A**, Alavi A, Reivich M. Determination of regional cerebral function with FDG-PET imaging in neuropsychiatric disorders. *Seminars in Nuclear Medicine* 32(1):13-34, 2002.
- Newberg A, Alavi A, van Rhijn S, Cotter A, and Reilly P. Radiologic diagnosis of brain death. *Journal of the American Medical Association* 288:2121-2122, 2002.
- **Newberg A**, Alavi A. Normal patterns and variants in single-photon emission computed tomography and positron emission tomography brain imaging. *Seminars in Nuclear Medicine* 33(1):42-55, 2003.
- Newberg AB, Alavi A. Neuroimaging in patients with head injury. *Seminars in Nuclear Medicine* 33(2): 136-147, 2003.
- **Newberg AB**, Iversen J. The neural basis of the complex mental task of meditation: Neurotransmitter and neurochemical considerations. *Medical Hypothesis* 61(2): 282-291, 2003.

- **Newberg A**, Cotter A, Udeshi M, Glosser G, Alavi A, Clark C. Brain metabolism in the cerebellum and visual cortex correlates with neuropsychological testing in patients with Alzheimer's disease. *Nuclear Medicine Communications* 24:785-790, 2003.
- **Newberg A**, Cotter A, Udeshi M, Alavi A, Clark C. Metabolic imaging severity rating scale (MISRS) for the assessment of patients with cognitive impairment. *Clinical Nuclear Medicine* 28(7): 565-570, 2003.
- **Newberg A**, Pourdehnad M, Alavi A, d'Aquili E. Cerebral blood flow during meditative prayer: Preliminary findings and methodological issues. *Perceptual and Motor Skills* 97: 625-630, 2003.
- Brunswick DJ, Amsterdam JD, Mozley PD, **Newberg AB**. Greater availability of brain dopamine transporters in major depression shown by [(99m)Tc]TRODAT-1 SPECT imaging. *American Journal of Psychiatry* 160(10):1836-1841, 2003.
- van Rhijn SJ, Glosser G, de Vries JJ, Clark CM, **Newberg AB**, Alavi A. Visual processing impairments and decrements in regional brain activity in Alzheimer's disease. *Journal of Clinical and Experimental Neuropsychology* 26(1):11-23, 2004.
- **Newberg AB**, Plössl K, Mozley PD, Stubbs JB, Wintering N, Udeshi M, Alavi A, Kauppinen T, Kung HF. Biodistribution and imaging with I-123 ADAM: A serotonin transporter imaging agent. *Journal of Nuclear Medicine* 45(5):834-41, 2004.
- Lee BY, LaRiccia PJ, Newberg AB. Acupuncture in theory and practice: Part 1: Clinical and research implications. *Hospital Physician* 40(4):11-18, 2004.
- Liebeskind DS, Ances BM, Newberg AB, Jacobs DA, Alavi A. FDG-PET of poststroke oculomotor repair. Neurology 62(7):1183, 2004.
- Lee BY, LaRiccia PJ, Newberg AB. Acupuncture in theory and practice: Part 2: Clinical indications, efficacy, and safety. *Hospital Physician* 40(5):33-38, 2004.
- Chow KL, Colcher A, Hurtig HI, Stern MB, Ravina B, **Newberg A**, Mozley PD, Siderowf A. Diagnostic accuracy of [<sup>99m</sup>Tc]TRODAT-1 SPECT imaging in early Parkinson's disease. *Parkinsonism and Related Disorders* 10(6):375-379, 2004.
- Lee BY, Newberg AB, Liebeskind D, Kung J, Alavi A. FDG PET Findings in Patients with Encephalitis. *Clinical Nuclear Medicine* 29(10):620-625, 2004.
- Gardiner SA, Morrison MF, Mozley PD, Mozley LH, Brensinger C, Bilker W, Newberg AB, Battistini M. Pilot study on the effect of estrogen replacement therapy on brain dopamine transporter availability in healthy, postmenopausal women. *American Journal of Geriatric Psychiatry* 12(6):621-30, 2004.

- Ances BM, Liebeskind DS, Newberg AB, Jacobs DA, Alavi A. Early uncoupling of cerebral blood flow and metabolism after bilateral thalamic infarction. *American Journal of Neuroradiology* 25(10):1685-1687, 2004.
- Chiang S, Cardi C, Matej S, Zhuang H, **Newberg A**, Alavi A, Karp JS. Clinical validation of fully 3-D versus 2.5-D RAMLA reconstruction on the Philips-ADAC CPET PET scanner. *Nuclear Medicine Communication* 25(11):1103-1107, 2004.
- **Newberg AB**, Alavi A. The role of PET imaging in the management of patients with central nervous system disorders. *Radiological Clinics of North America* 43:49-66, 2004.
- Newberg AB, Alavi A. PET in seizure disorders. *Radiological Clinics of North America* 43:79-92, 2004.
- Weintraub D, Newberg A, Cary MS, Siderowf AD, Moberg PJ, Kleiner-Fisman G, Duda JE, Stern MB, Mozley PD, Katz IR. [<sup>99m</sup>Tc]TRODAT-1 SPECT imaging correlates with neuropsychiatric symptoms in Parkinson's disease. *Journal of Nuclear Medicine* 46: 227-232, 2005.
- Swanson RL, Newberg AB, Acton PD, Siderowf A, Wintering N, Alavi A, Mozley PD, Plossl K, Udeshi M, Hurtig H. Differences in [<sup>99m</sup>Tc] TRODAT-1 SPECT binding to dopamine transporters in patients with multiple system atrophy and Parkinson's disease. *European Journal of Nuclear Medicine* 32(3):302-307, 2005.
- Newberg AB, Saffer J, Farrar J, Pourdehnad M, Alavi A. Stability of cerebral blood flow measures using a split-dose technique with 99mTc-exametazime SPECT. *Nuclear Medicine Communications* 26(5):475-478, 2005.
- **Newberg AB**, LaRiccia PJ, Lee BY, Lee L, Alavi A. The cerebral blood flow effects of pain and acupuncture: A preliminary SPECT imaging study. *Journal of Neuroimaging* 15(1):43-49, 2005.
- Lee B, Newberg A. Neuroimaging in traumatic brain injury. *Journal of the American Society of NeuroTherapeutics* 2:372-383, 2005.
- Lee B, **Newberg A**. Religion and health: A review and critical analysis. *Zygon* 40:443-468, 2005.
- **Newberg A**, Lee B. The neuroscientific study of religious and spiritual phenomena: Or why God doesn't use biostatistics. *Zygon* 40:469-489, 2005.
- Siderowf A, Newberg A, Chou KL, Lloyd M, Colcher A, Hurtig HI, Stern MB, Doty RL, Mozley PD, Wintering N, Duda JE, Weintraub D, Moberg PJ. [99mTc]TRODAT-1 SPECT imaging correlates with odor identification in early Parkinson disease. *Neurology* 64(10):1716-1720, 2005.

- Newberg AB, Amsterdam JD, Wintering N, Ploessl K, Swanson RL, Shults J, Alavi A. 123I-ADAM binding to serotonin transporters in patients with major depression and healthy controls: A preliminary study. *Journal of Nuclear Medicine* 46(6):973-977, 2005.
- **Newberg AB**, Wang J, Rao H, Swanson RL, Wintering N, Karp JS, Alavi A, Greenberg JH, Detre JA. Concurrent CBF and CMRGlc changes during human brain activation by combined fMRI-PET scanning. *Neuroimage* 28(2):500-506, 2005.
- Acton PD, Newberg A, Plossl K, Mozley PD. Comparison of region-of-interest analysis and human observers in the diagnosis of Parkinson's disease using [(99m)Tc]TRODAT-1 and SPECT. *Physics in Medicine and Biology* 51(3):575-585, 2006.
- Newberg AB, Wintering NA, Plossl K, Hochold J, Stabin MG, Watson M, Skovronsky D, Clark CM, Kung MP, Kung HF. Safety, biodistribution, and dosimetry of <sup>123</sup>I-IMPY: A Novel amyloid plaque-imaging agent for the diagnosis of Alzheimer's disease. *Journal* of Nuclear Medicine 47(5):748-754, 2006.
- Acton PD, Newberg A. Artificial neural network classifier for the diagnosis of Parkinson's disease using [(99m)Tc]TRODAT-1 and SPECT. *Physics in Medicine and Biology* 51 (12):3057-3066, 2006.
- Sydow BD, Srinivas SM, Newberg A, Alavi A. Deep venous thrombosis on F-18 FDG PET/CT imaging. *Clinical Nuclear Medicine* 31(7):403-404, 2006.
- **Newberg A**, Wintering NA, Morgan D, Waldman MR. The measurement of regional cerebral blood flow during glossolalia: A preliminary SPECT study. *Psychiatry Research: Neuroimaging* 148(1):67-71, 2006.
- **Newberg A**, Amsterdam J, Shults J. Dopamine transporter density may be associated with the depressed affect in healthy subjects. *Nuclear Medicine Communications* 28(1):3-6, 2007.
- Peres JF, **Newberg AB**, Mercante JP, Simao M, Albuquerque VE, Peres MJ, Nasello AG. Cerebral blood flow changes during retrieval of traumatic memories before and after psychotherapy: a SPECT study. *Psychological Medicine* 37; 1-11, 2007.
- Tumeh PC, Houseni M, Alavi A, Greenfield A, Chryssikos T, Newberg A, Torigian DA, Moonis G. Structural and functional imaging correlates for age-related changes in the brain. *Seminars in Nuclear Medicine* 37(1):69-87, 2007.
- Newberg A, Lerman C, Wintering N, Ploessl K, Mozley PD. Dopamine transporter binding in smokers and nonsmokers. *Clinical Nuclear Medicine* 32(6):452-455, 2007.

- Amsterdam JD, Newberg AB. A preliminary study of dopamine transporter binding in bipolar and unipolar depressed patients and healthy controls. *Neuropsychobiology* 55(3-4):167-170, 2007.
- Short EB, Kose S, Mu Q, Borckardt J, Newberg AB, George MS, Kozel FA. Regional brain activation during meditation shows time and practice effects: An exploratory fMRI study. *Evidence-based Complementary and Alternative Medicine* 10(3-4):121-7, 2007.
- Clark CM, Davatzikos C, Bothaku A, **Newberg A**, Leight S, Lee VM-Y, Trojanowski JQ. Biomarkers for the early detection of Alzheimer's disease pathology. *NeuroSignals* 16(1):11-18, 2008.
- Lundgren JD, Newberg AB, Allison KC, Wintering NA, Ploessl K, Stunkard AJ.(123)I-ADAM SPECT imaging of serotonin transporter binding in patients with Night Eating Syndrome: A preliminary report. *Psychiatry Research: Neuroimaging* 162(3):214-20, 2008.
- Anastasi MW, **Newberg AB**. A preliminary study of the acute effects of religious ritual on anxiety. *Journal of Alternative and Complementary Medicine* 14(2):163-5, 2008.
- Chryssikos T, Parvizi J, Ghanem E, **Newberg A**, Zhuang H, Alavi A. FDG-PET imaging can diagnose periprosthetic infection of the hip. *Clinical Orthopedics and Related Research* 466(6):1338-42, 2008.
- Dubroff JG, Ficicioglu C, Segal S, Wintering NA, Alavi A, **Newberg AB**. FDG-PET findings in patients with galactosaemia. *Journal of Inherited and Metabolic Disease* 31(4):533-9, 2008.
- Crits-Christoph P, **Newberg A**, Wintering N, Ploessl K, Gibbons MB, Ring-Kurtz S, Gallop R, Present J. Dopamine transporter levels in cocaine dependent subjects. *Drug and Alcohol Dependence* 98(1-2):70-6, 2008.
- Musiek ES, Torigian DA, Newberg AB. Investigation of non-neoplastic neurological disorders with PET and MRI. *PET Clinics* 3(3):317-34, 2008.
- Dubroff JG, Newberg A. Neuroimaging of traumatic brain injury. *Seminars in Neurology* 28(4):548-57, 2008.
- Buckle J, Newberg A, Wintering N, Hutton E, Lido C, Farrar JT. Measurement of regional cerebral blood flow associated with the M technique-light massage therapy: a case series and longitudinal study using SPECT. *Journal of Alternative and Complementary Medicine* 14(8):903-10, 2008.

- Newberg AB, Ray R, Scheuermann J, Wintering N, Saffer J, Schmitz A, Freifelder R, Karp J, Lerman C, Divgi C. Dosimetry of 11C-carfentanil, a mu-opioid receptor imaging agent. *Nuclear Medicine Communications* 14(8):903-10, 2009.
- Lundgren JD, Amsterdam J, **Newberg A**, Allison KC, Wintering N, Stunkard AJ. Differences in serotonin transporter binding affinity in patients with major depressive disorder and night eating syndrome. *Eating and Weight Disorders* 14(1):45-50, 2009.
- Cohen DL, Wintering N, Tolles V, Townsend RR, Farrar JT, Galantino ML, Newberg AB. Cerebral blood flow effects of yoga training: preliminary evaluation of 4 cases. *Journal* of Alternative and Complementary Medicine 15(1):9-14, 2009.
- Khalsa DS, Amen D, Hanks C, Money N, **Newberg A**. Cerebral blood flow changes during chanting meditation. *Nuclear Medicine Communications* 30(12):956-61, 2009.
- **Newberg A**. The brain and the biology of belief: An interview with Andrew Newberg, MD. Interview by Nancy Nachman-Hunt. Advances in Mind Body Medicine 24(1):32-6, 2009.
- Moghadam-Kia S, Nawaz A, Newberg A, Basu S, Alavi A, Torigian DA. Utility of (18)F-FDG-PET/CT imaging in the diagnosis of appendicitis. *Hellenic Journal of Nuclear Medicine* 12(3):281-2, 2009.
- Moghadam-Kia S, Nawaz A, Newberg A, Basu S, Alavi A, Torigian DA. (99m)Tc-(V) DMSA uptake in systemic AL amyloidosis and normal bone scintigraphy. *Hellenic Journal of Nuclear Medicine* 13(1):69-70, 2010.
- **Newberg AB**, Wintering N, Khalsa DS, Roggenkamp H, Waldman MR. Meditation effects on cognitive function and cerebral blood flow in subjects with memory loss: A preliminary study. *Journal of Alzheimer's Disease* 20(2):517-26, 2010.
- **Newberg AB**, Newberg S. Psychology and neurobiology in a postmaterialist world. *Psychology of Religion and Spirituality* 2(3):119-121, 2010.
- **Newberg AB**, Alavi A. Normal patterns and variants in PET brain imaging. *PET Clinics* 5(1):1-14, 2010.
- Dubroff JG, Newberg AB. PET imaging for traumatic brain injury. *PET Clinics* 5(2):199-208, 2010.
- Alavi A, Newberg AB. Positron emission tomography in epilepsy and other seizure disorders. *PET Clinics* 5(2):209-222, 2010
- Newberg AB, Alavi A. Role of positron emission tomography in the investigation of neuropsychiatric disorders. *PET Clinics* 5(2):223-242, 2010.

- **Newberg AB**, Wintering N, Waldman MR, Amen D, Khalsa DS, Alavi A. Cerebral blood flow differences between long-term meditators and non-meditators. *Consciousness and Cognition* 19(4):899-905, 2010.
- Wang DJJ, Rao H, Korczykowski M, Wintering N, Pluta J, Khalsa DS, Newberg AB. Cerebral blood flow changes associated with different meditation practices and perceived depth of meditation. *Psychiatry Research: Neuroimaging* 191(1):60-67, 2011.
- Amen DG, Newberg AB, Thatcher R, Jin Y, Wu J, Keator D, Willeumier K. Impact of playing American professional football on long-term brain function. *Journal of Neuropsychiatry and Clinical Neurosciences* 23:98–106, 2011.
- Cheng G, Newberg AB, Alavi A. Metastatic melanoma causing complete atrioventricular block-the role of FDG PET/CT in diagnosis. *Clinical Imaging* 35(4):312-314, 2011.
- Moss AS, Monti DA, Amsterdam JD, **Newberg AB**. Complementary and alternative medicine therapies in mood disorders. *Expert Reviews in Neurotherapeutics* 11(7):1049-1056, 2011.
- Beheshti M, Saboury B, Mehta NN, Torigian DA, Werner T, Mohler E, Wilensky R, Newberg AB, Basu S, Langsteger W, Alavi A. Detection and global quantification of cardiovascular molecular calcification by fluoro-18-fluoride positron emission tomography/computed tomography-A novel concept. *Hellenistic Journal of Nuclear Medicine* 14(2):114-120, 2011.
- Ray R, Ruparel K, Newberg A, Wileyto EP, Loughead J, Divgi C, Blendy JA, Logan J, Zubieta JK, Lerman C. OPRM1 A118G polymorphism is associated with brain mu opioid receptor binding potential in smokers. *Proceedings of the National Academy of Sciences* 108(22):9268-9373, 2011.
- Amen DG, Trujillo M, Newberg A, Willeumier K, Tarzwell R, Wu JC, Chaitin B. Brain SPECT imaging in complex psychiatric cases: An evidence-based, underutilized tool. *Open Neuroimaging Journal* 5:40-48, 2011.
- Newberg AB. Spirituality and the aging brain. *Generations: Journal of the American* Society on Aging 35(2):83-91, 2011.
- Newberg AB, Moss AS, Monti DA, Alavi A. Positron emission tomography in psychiatric disorders. *Annals of the New York Academy of Sciences* 1228(1):E13-25, 2011.
- Alavi A, Yakir S, Newberg AB. Positron emission tomography in seizure disorders. Annals of the New York Academy of Sciences 1228(1):E13-25, 2011.
- Chen Y, Wolk DA, Reddin JS, Korczykowski M, Martinez PM, Musiek E, **Newberg AB**, Julin P, Arnold SE, Greenberg JH, and Detre JA . Voxel level comparison of arterial

spin labeled perfusion MRI and FDG- PET in Alzheimer's disease. *Neurology* 77(22):1977-85, 2011.

- **Newberg AB**, Hersh EV, Levin LM, Giannakopoulos H, Secreto SA, Wintering NA, Farrar JT. A double-blind, placebo-controlled, randomized pilot study of cerebral blood flow patterns employing SPECT imaging in dental postsurgical pain patients with and without pain relief. *Clinical Therapeutics* 33(12):1894-903, 2011.
- Musiek ES, ChenY, Korczykowski M, Saboury B, Martinez PM, Reddin JS, Alavi A, Kimberg DY, Wolk DA, Julin P, **Newberg AB**, Arnold SE, Detre JA. Direct comparison of FDG-PET and ASL-MRI in Alzheimer's disease. *Alzheimer's & Dementia* 8(1):51-9, 2012.
- Monti DA, Mitchell E, Bazzan AJ, Littman S, Zabrecky G, Yeo CJ, Pillai MV, Newberg AB, Deshmukh S, Levine M. Phase I evaluation of intravenous ascorbic acid in combination with gemcitabine and erlotinib in patients with metastatic pancreatic cancer. *PLoS ONE*. 7(1): e29794. doi:10.1371/journal.pone.0029794, 2012.
- Moss AS, Wintering N, Roggenkamp H, Khalsa DS, Waldman MR, Monti DA, **Newberg AB**. Effects of an eight week meditation program on mood and anxiety in patients with memory loss. *Journal of Complementary and Alternative Medicine* 18(1):48-53, 2012.
- Newberg AB, Amsterdam JD, Wintering N, Shults. Lower brain serotonin transporter binding in major depressive disorder. *Psychiatry Research: Neuroimaging* 202(2):161-7, 2012.
- Newberg AB, Arnold SE, Wintering N, Rovner BW, Alavi A. Initial clinical comparison of 18F-Florbetapir and 18F-FDG PET in patients with Alzheimer disease and controls. *Journal of Nuclear Medicine* 53(6): 902-7, 2012.
- Falcone M, Gold A, Wileyto PE, Ray R, Ruparel K, Newberg A, Dubroff J, Logan J, Zubieta J-K, Blendy J, Lerman C. μ-opioid receptor availability in the amygdala is associated with smoking for negative affect relief. *Psychopharmacology* 222(4):701-8, 2012.
- Amen DG, Highum D, Licata R, Annibali JA, Somner L, Pigott HE, Taylor DV, Trujillo M, Newberg A, Henderson T, Willeumier K. Specific ways brain SPECT imaging enhances clinical psychiatric practice. *Journal of Psychoactive Drugs* 44(2):96-106, 2012.
- Manning CA, Waldman MR, Lindsey WE, **Newberg AB**, Cotter-Lockard D. Personal inner values: A key to effective face-to-face business communication. *Journal of Executive Education* 11(1): 37-65, 2012.

- Amsterdam JD, **Newberg AB**, Soeller I, Shults J. Greater striatal dopamine transporter density may be associated with major depressive episode. *Journal of Affective Disorders* 141(2-3):425-31, 2012.
- Amsterdam JD, Shults J, Soeller I, Mao JJ, Rockwell K, Newberg AB. Chamomile (Matricaria recutita) May Provide Antidepressant Activity in Anxious, Depressed Humans: An Exploratory Study. *Alternative Therapies in Health and Medicine* 18(5):44-9, 2012.
- Monti DA, Kash KM, Kunkel EJ, Brainard G, Wintering N, Moss AS, Rao H, Zhu S, Newberg AB. Changes in cerebral blood flow and anxiety associated with an 8-week mindfulness programme in women with breast cancer. *Stress & Health* 28(5):397-407, 2012.
- Musiek ES, Saboury B, Mishra S, Chen Y, Reddin JS, Newberg AB, Udupa JK, Detre JA, Hofheinz F, Torigian D, Alavi A. Feasibility of estimation of brain volume and 2deoxy-2-(18)F-fluoro-D-glucose metabolism using a novel automated image analysis method: Application in Alzheimer's disease. *Hellenistic Journal of Nuclear Medicine* 15(3):190-196, 2012.
- Wintering NA, Wilson JC, **Newberg AB**. A pilot study to evaluate the physiological effects of a spa retreat that uses caloric restriction and colonic hydrotherapy. *Integrative Medicine: A Clinician's Journal* 11(6): 26-32, 2012.
- Peres J, Moreira-Almeida A, Caixeta L, Leao F, Newberg AB. Neuroimaging during trance state: A contribution to the study of dissociation. *PLoS ONE* 7(11):e49360. doi: 10.1371/journal.pone.0049360, 2012.
- Allison KC, Studt SK, Berkowitz RI, Hesson LA, Moore RH, Dubroff JG, Newberg A, Stunkard AJ. An open-label efficacy trial of escitalopram for night eating syndrome. *Eating Behaviors* 14(2):199-203, 2013.
- Cohen DL, Bowler A, Fisher SA, Norris A, Newberg A, Rao H, Bhavsar R, Detre JA, Tenhave T, Townsend RR. Lifestyle Modification in Blood Pressure Study II (LIMBS): Study protocol of a randomized controlled trial assessing the efficacy of a 24 week structured yoga program versus lifestyle modification on blood pressure reduction. *Contemporary Clinical Trials* 36(1):32-40, 2013.
- Amsterdam JD, Newberg AB, Newman CF, Shults J, Wintering N, Soeller I. Change over time in brain serotonin transporter binding in major depression: Effects of therapy measured with [123 I]-ADAM SPECT. *Journal of Neuroimaging* 23(4):469-76, 2013.
- Olex S, Newberg A, Figueredo VM. Meditation: Should a cardiologist care? *International Journal of Cardiology* 168(3):1805-10, 2013.

- **Newberg AB**. The brain and spiritual experiences: Towards a neuroscientific hermeneutic. *Paranthropology: Journal of Anthropological Approaches to the Paranormal*. 4(3): 54-62, 2013.
- Newberg AB, Serruya M, Wintering N, Moss AS, Reibel D, Monti DA. Meditation and neurodegenerative diseases. Annals of the New York Academy of Science doi: 10.1111/nyas.12187, 2013.
- Monti DA, Kash K, Kunkel EJ, Moss A, Mathews M, Brainard G, Anne R, Leiby BE, Pequinot E, **Newberg AB**. Psychosocial benefits of a novel mindfulness intervention versus standard support in distressed women with breast cancer. *Psycho-Oncology* 22(11):2565-2575, 2013.
- Mashayekh A, Newberg A. Role of SPECT and PET in pediatric epilepsy. *Journal of Pediatric Epilepsy* 2: 19-31, 2013.
- Bazzan AJ, Zabrecky G, Newberg AB. Multi-nutrient supplement improves hormone ratio associated with cancer risk. *Journal of Translational Medicine* 11:252. DOI: 10.1186/10.1186/1479-5876-11-252, 2013.
- Bazzan AJ, Newberg AB, Cho WC, Monti DA. Diet and nutrition in cancer survivorship and palliative care. *Evidence Based Complementary and Alternative Medicine*. 2013:917647, 2013.
- Nash JD, Newberg A. Toward a unifying taxonomy and definition for meditation. *Frontiers in Psychology* doi: 10.3389/fpsyg.2013.00806, 2013.
- Peres J, Newberg A. Neuroimaging and mediumship: a promising research line. *Revista Psiquiatria Clínica* 40(6):225-232, 2013.
- Salloway S, Sperling R, Fox NC, Blennow K, Klunk W, Raskind M, Sabbagh M, Honig LS, Porsteinsson AP, Ferris S, Reichert M, Ketter N, Nejadnik B, Guenzler V, Miloslavsky M, Wang D, Lu Y, Lull J, Tudor IC, Liu E, Grundman M, Yuen E, Black R, Brashear HR; Bapineuzumab 301 and 302 Clinical Trial Investigators. Two Phase 3 Trials of Bapineuzumab in Mild-to-Moderate Alzheimer's Disease. *New England Journal of Medicine* 370(4):322-33, 2014. [Note: Listed as trial investigator]
- Newberg AB, Serruya M, Gepty A, Intenzo C, Lewis T, Amen D, Russell DS, Wintering N. Clinical comparison of 99mTc exametazime and 123I ioflupane SPECT in patients with chronic mild traumatic brain injury. *PLoS ONE* 9(1): e87009. doi:10.1371/journal.pone.0087009, 2014.
- Bazzan AJ, Zabrecky G, Monti DA, **Newberg AB**. Current evidence regarding the management of mood and anxiety disorders using complementary and alternative medicine. *Expert Reviews in Neurotherapeutics* 14(4):411-423, 2014.

- **Newberg AB**. The neuroscientific study of spiritual practices. *Frontiers in Psychology* 5:215. doi: 10.3389/fpsyg.2014.00215, 2014.
- Wintering NA, Moss AS, Shea J, Waldman MR, Newberg AB. Development and evaluation of the Belief Acceptance Scale. *Journal of Beliefs and Values* 35(1): 48–60, 2014.
- Johnson KD, Rao H, Wintering N, Dhillon N, Hu S, Zhu S, Korczykowski M, Johnson K, Newberg AB. Pilot study of the effect of religious symbols on brain function: Association with measures of religiosity. *Spirituality in Clinical Practice* 1(2): 82-98, 2014.
- **Newberg AB**. Multidisciplinary directions for studying the brain and religious phenomena. *Spirituality in Clinical Practice* 1(2): 106-108, 2014.
- Moss AS, Reibel DK, Greeson JM, Thapar A, Bubb R, Salmon J, **Newberg AB**. An adapted mindfulness-based stress reduction program for elders in a continuing care retirement community: Quantitative and qualitative results from a pilot randomized controlled trial. *Journal of Applied Gerontology* 34(4):518-538, 2015.
- Doty RL, Gandhi SS, Osman A, Hurtig HI, Pawasarat I, Beals E, Chung I, Dubroff J, **Newberg A**, Ying GS, Leon-Sarmiento FE. Point pressure sensitivity in early stage Parkinson's disease. *Physiology and Behavior* 138:21-27, 2015.
- **Newberg AB**. The neurotheology link: An intersection between spirituality and health (Interview). *Alternative and Complementary Therapies* 21:13-17, 2015.
- Sharma A, Newberg AB. Mind-Body Practices and the Adolescent Brain: Clinical Neuroimaging Studies. *Adolescent Psychiatry (Hilversum)*. 5(2):116-124, 2015.
- Ossenkoppele R, Jansen W, Rabinovici G, Knol D, van der Flier W, Zwan M, Adriaanse S, Verfaillie S, Lammertsma A, Barkhof F, Jagust W, Miller B, Rosen H, Landau S, Vilemagne V, Rowe C, Lee DY, Na DL, Seo SW, Chetelat G, Sarazin M, Fortea J, Roe C, Sabri O, Barthel H, Wolk D, Koglin N, Rinne J, Hodges J, Leyton C, Nordberg A, Vandenberghe R, van Laere K, Drzezga A, Forster S, Grimmer T, Mintun M, Sanchez-Juan P, Carril J, Mok V, Camus V, Klunk W, Cohen A, Lleo A, Meyer P, Hellwig S, Newberg A, Frederiksen K, Fleisher A, Blesa R, Madsen K, Rodrigue K, Brooks D, van Berckel B, Scheltens P, Visser P. Prevalence of amyloid PET positivity in dementia syndromes. *Journal of the American Medical Association*. 313(19):1939-49, 2015.
- Raji CA, Willeumier K, Taylor D, Tarzwell R, Newberg A, Henderson TA, Amen DG.Functional neuroimaging with default mode network regions distinguishes PTSD from TBI in a military veteran population. *Brain Imaging and Behavior* 9(3):527-34, 2015.

- Amen DG, Raji CA, Willeumier K, Taylor D, Tarzwell R, Newberg A, Henderson TA. Functional neuroimaging distinguishes posttraumatic stress disorder from traumatic brain injury in focused and large community datasets. *PLoS One* DOI: 10.1371/journal.pone.0129659, 2015.
- **Newberg AB**, Wintering NA, Yaden DB, Waldman MR, Reddin J, Alavi A. A case series study of the neurophysiological effects of altered states of mind during intense Islamic prayer. *Journal of Physiology: Paris.* 109; 214-220, 2015.
- Yaden DB, Eichstaedt JC, Schwartz HA, Kern ML, Le Nguyen KD, Wintering NA, Hood RW Jr, Newberg AB. The language of ineffability: Linguistic analysis of mystical experiences. *Psychology of Religion and Spirituality*. 8(3); 244-252, 2016.
- **Newberg A**. How God changes your brain: An introduction to Jewish neurotheology. *The Reform Jewish Quarterly*. Winter, 18-25, 2016.
- Rouleau L, Antony AN, Bisetto S, Newberg A, Doria C, Levine M, Monti DA, Hoek JB. Synergistic effects of ascorbate and sorafenib in hepatocellular carcinoma: New insights into ascorbate cytotoxicity. *Free Radical Biology and Medicine*. 95:308-322, 2016.
- Yaden DB, Iwry J, Slack KJ, Eichstaedt JC, Zhao Y, Vaillant GE, **Newberg AB**. The Overview Effect: Awe and self-transcendent experience in space flight. *Psychology of Consciousness: Theory, Research, and Practice*. 3:1-11, 2016.
- Amen DG, Willeumier K, Omalu B, Newberg A, Raghavendra C, Raji CA. Perfusion neuroimaging abnormalities alone distinguish National Football League players from a healthy population. *Journal of Alzheimer's Disease*. 53(1): 237-241, 2016.
- Monti DA, Zabrecky G, Kremens D, Liang TW, Wintering NA, Cai J, Wei X, Bazzan AJ, Zhong L, Bowen B, Intenzo CM, Iacovitti L, Newberg AB. N-acetyl cysteine may support dopamine neurons in Parkinson's disease: Preliminary clinical and cell line data. *PLoS One*. 11(6):e0157602. doi: 10.1371/journal.pone.0157602, 2016.
- Yaden DB, Nguyen KDL, Kern ML, Belser AB, Eichstaedt JC, Iwry J, Wintering N, Hood RW, Newberg AB. Of roots and fruits: A comparison of psychedelic and nonpsychedelic mystical experiences. *Journal of Humanistic Psychology*. 57(4): 338-353, 2016.
- Chen EY, Olino TM, Conklin CJ, Mohamed FB, Hoge WS, Foster GD; Genetic and Neural Biomarkers of Obesity (GN-BO) study group:.. Arlt JM, Eneva K, Kidd JR, Kidd KR, Lent MR, Murray S, Newberg A, Tewksbury C, VanderVeur SS, Yiu A. Genetic and neural predictors of behavioral weight loss treatment: A preliminary study. *Obesity*. (Silver Spring). 2016. doi: 10.1002/oby.21691.

- Cheng G, Werner TJ, **Newberg A**, Alavi A. Failed PET application attempts in the past, Can we avoid them in the future? *Molecular Imaging and Biology*. 18(6):797-802, 2016.
- Amen DG, Krishnamani P, Meysami S, Newberg A, Raji CA. Classification of depression, cognitive disorders, and co-morbid depression and cognitive disorders with perfusion SPECT neuroimaging. *Journal of Alzheimer's Disease*. doi: 10.3233/JAD-161232, 2017.
- Monti DA, Tobia A, Stoner M, Wintering N, Matthews M, He XS, Doucet G, Chervoneva I, Tracy JI, Newberg AB. Neuro emotional technique effects on brain physiology in cancer patients with traumatic stress symptoms: preliminary findings. *Journal of Cancer Survivorship.* 11(4): 438-446, 2017.
- Newberg AB, Wintering N, Yaden DB, Zhong L, Bowen B, Averick N, Monti DA. Effect of a one-week spiritual retreat on dopamine and serotonin transporter binding: a preliminary study. *Religion, Brain & Behavior*. doi:10.1080/2153599X.2016.1267035, 2017.
- Yaden DB, Le Nguyen KD, Kern ML, Wintering NA, Eichstaedt JC, Schwartz HA, Buffone AEK, Smith LK, Waldman MR, Hood RW, Newberg AB. The noetic quality: A multimethod exploratory study. *Psychology of Consciousness: Theory, Research, and Practice.* 4(1): 54-62, 2017.
- Yaden DB, Haidt J, Hood RW, Vago DR, Newberg AB. The varieties of self-transcendent experience. *Review of General Psychology*. 21(2): 143-160, 2017.
- Iwry J, Yaden DB, Newberg AB. Noninvasive brain stimulation and personal identity: Ethical considerations. *Frontiers in Human Neuroscience*. 11:281. doi: 10.3389/fnhum.2017.00281, 2017.
- Prioli KM, Pizzi LT, Kash KM, Newberg AB, Morlino AM, Matthews MJ, Monti DA. Costs and effectiveness of Mindfulness-Based Art Therapy versus standard breast cancer support group for women with cancer. *American Health & Drug Benefits*. 10(6):288-295, 2017.
- Monti DA, Bazzan AJ, Zabrecky G, **Newberg AB**. Brief report: Stability and chemical characteristics of injectable ascorbic acid for patients with cancer. *Alternative Therapies in Health and Medicine*. 2017 Oct 2. pii: AT5681.
- Monti D, Sotgia F, Whitaker-Menezes D, Tuluc M, Birbe R, Berger A, Lazar M, Cotzia P, Draganova-Tacheva R, Lin Z, Domingo-Vidal M, **Newberg A**, Lisanti M, Martinez-Outschoorn U. Pilot study demonstrating metabolic and anti-proliferative effects of in vivo anti-oxidant supplementation with N-Acetylcysteine in breast cancer. *Seminars in Oncology*. 44(3):226-232, 2017.

- Jansen WJ, Ossenkoppele R, Tijms BM, … Newberg A, … Zetterberg H. Association of cerebral amyloid-β aggregation with cognitive functioning in persons without dementia. *JAMA Psychiatry*. 75(1):84-95, 2018.
- Monti DA, Tobia A, Stoner M, Wintering N, Matthews M, Conklin CJ, Mohamed FB, Chervoneva I, **Newberg AB**. Changes in cerebellar functional connectivity and autonomic regulation in cancer patients treated with the Neuro Emotional Technique for traumatic stress symptoms. *Journal of Cancer Survivorship*. 12(1):145-153, 2018.
- Bazzan AJ, Zabrecky G, Wintering N, **Newberg AB**, Monti DA. Retrospective evaluation of clinical experience with intravenous ascorbic acid in patients with cancer. *Integrative Cancer Therapies*. 17(3):912–920, 2018.
- Khosravi M, Newberg A, Alavi A. Cognitive impairment and dementias. *Seminars in Nuclear Medicine*. 48(6):498-512, 2018.
- Newberg A, Yaden DB. A neurotheological perspective on altered states of consciousness. *Journal of Consciousness Studies*. 25(11-12): 204–225, 2018.
- Newberg AB, Waldman MR. A neurotheological approach to spiritual awakening. *International Journal of Transpersonal Studies*. 37(2):119–130, 2018.
- Monti DA, Zabrecky G, Kremens D, Liang TW, Wintering NA, Bazzan AJ, Zhong L, Bowens BK, Chervoneva I, Intenzo C, Newberg AB. N-acetyl cysteine is associated with dopaminergic improvement in Parkinson's disease. *Clinical Pharmacology & Therapeutics*. doi: 10.1002/cpt.1548, 2019.
- Khosravi M, Peter J, Wintering NA, Serruya M, Shamchi SP, Werner TJ, Alavi A, Newberg AB. 18F-FDG is a superior indicator of cognitive performance compared to 18F-Florbetapir in Alzheimer's disease and mild cognitive impairment evaluation: A global quantitative analysis. *Journal of Alzheimer's Disease*. doi: 10.3233/JAD-190220, 2019.
- You JC, Jones E, Cross DE, Lyon AC, Kang H, **Newberg AB**, Lippa CF. Association of β-amyloid burden with sleep dysfunction and cognitive impairment in elderly individuals with cognitive disorders. *JAMA Network Open*, 2(10):e1913383. doi: 10.1001/jamanetworkopen.2019.13383, 2019.
- Newberg A, Wintering N, Waldman M. Comparison of different measures of religiousness and spirituality: Implications for neurotheological research. *Religions*. 2019, 10(11), 637; https://doi.org/10.3390/rel10110637, 2019.
- Alavi A, Barrio JR, Werner TJ, Khosravi M, Newberg A, Høilund-Carlsen PF. Suboptimal validity of amyloid imaging-based diagnosis and management of Alzheimer's disease: why it is time to abandon the approach. *European Journal of Nuclear Medicine and Molecular Imaging*. doi: 10.1007/s00259-019-04564-5, 2019.

- Zabrecky G, Shahrampour S, Whitely C, Alizadeh M, Conklin C, Wintering N, Doghramji K, Zhan T, Mohamed F, **Newberg A**, Monti D. An fMRI study of the effects of vibroacoustic stimulation on functional connectivity in patients with insomnia. *Sleep Disorders*. 2020. 1-9. 10.1155/2020/7846914, 2020.
- Monti DA, Zabrecky G, Leist TP, Wintering N, Bazzan AJ, Zhan T, Newberg AB. Nacetyl cysteine administration is associated with increased cerebral glucose metabolism in patients with multiple sclerosis: An exploratory study. *Frontiers in Neurology*. 11. 10.3389/fneur.2020.00088, 2020.
- Werk RS, Steinhorn DM, **Newberg A**. The relationship between spirituality and the developing brain: A framework for pediatric oncology. *Journal of Religion and Health*. https://doi.org/10.1007/s10943-020-01014-7, 2020.
- Brenner J, LeBlang S, Lizotte-Waniewski M, Schmidt B, Espinosa PS, DeMets DL, Newberg A, Hennekens CH. Mindfulness with paced breathing reduces blood pressure. *Medical Hypotheses*. 142:109780. doi: 10.1016/j.mehy.2020.109780, 2020.
- Chrysikou EG, Jacial C, Yaden DB, van Dam W, Kaufman SB, Conklin CJ, Wintering NA, Abraham RE, Jung RE, Newberg AB. Differences in brain activity patterns during creative idea generation between eminent and non-eminent thinkers. *Neuroimage*. 220:117011. doi: 10.1016/j.neuroimage.2020.117011, 2020
- Chrysikou EG, Wertz C, Yaden DB, Kaufman SB, Bacon D, Wintering NA, Jung RE, Newberg AB. Differences in brain morphometry associated with creative performance in high- and average-creative achievers. *Neuroimage*. 218:116921. doi:10.1016/j.neuroimage.2020.116921, 2020.
- Datta S, Newberg A. The relationship between the brain and spirituality with respect to aging and neurodegenerative diseases: clinical and research implications. *Journal of Religion, Spirituality & Aging*. 32:4, 357-380, DOI: 10.1080/15528030.2020.1773372, 2020.
- Amen DG, Wu J, George N, **Newberg A**. Patterns of regional cerebral blood flow as a function of obesity in adults. *Journal of Alzheimer's Disease*. 77(3):1331-1337, 2020.
- Borja AJ, Hancin EC, Khosravi M, Ghorpade R, Koa B, Miao X, Werner TJ, Newberg AB, Alavi A. Applications of hybrid PET/Magnetic Resonance Imaging in central nervous system disorders. *PET Clinics*. 15(4):497-508, 2020.
- Høilund-Carlsen PF, Barrio JR, Werner TJ, **Newberg A**, Alavi A. Amyloid hypothesis: The emperor's new clothes? *Journal of Alzheimer's Disease*. 78(4):1363-1366, 2020.
- Ayubcha C, Revheim ME, **Newberg A**, Moghbel M, Rojulpote C, Werner TJ, Alavi A. A critical review of radiotracers in the positron emission tomography imaging of

traumatic brain injury: FDG, tau and amyloid imaging in mild traumatic brain injury and chronic traumatic encephalopathy. *European Journal of Nuclear Medicine*. 48(2):623-641, 2021.

- Wintering NA, Yaden DB, Conklin C, Alizadeh M, Mohamed FB, Zhong L, Bowens B, Monti DA, Newberg AB. Effect of a one-week spiritual retreat on brain functional connectivity: A preliminary study. *Religions*. 12: 23. doi.org/10.3390/rel12010023, 2021.
- Khalsa DS, Newberg A. Spiritual fitness: A new dimension in Alzheimer's disease prevention. *Journal of Alzheimers Disease*. 80(2):505-519. doi: 10.3233/JAD-201433, 2021.
- Teichner EM, You JC, Hriso C, Wintering NA, Zabrecky GP, Alavi A, Bazzan AJ, Monti DA, Newberg AB. Alterations in cerebral glucose metabolism as measured by FDG PET in patients with persistent post-concussion syndrome. *Nuclear Medicine Communications*. 42:772–781. doi: 10.1097/MNM.000000000001397, 2021.
- Ayubcha C, Moghbel M, Borja AJ, Newberg A, Werner TJ, Alavi A, Revheim ME. Tau imaging in head injury. *PET Clinics*. 16(2):249-260. doi: 10.1016/j.cpet.2020.12.009. PMID: 33648666, 2021.
- Muller J, Middleton D, Alizadeh M, Zabrecky G, Wintering N, Bazzan AJ, Lang J, Monti DA, Wu Q, Newberg AB, Mohamed FB. Hybrid diffusion imaging reveals altered white matter tract integrity and associations with symptoms and cognitive dysfunction in chronic traumatic brain injury. *Neuroimage: Clinical*. 30:102681. doi: 10.1016/j.nicl.2021.102681, 2021.
- Joa B, Newberg AB. Neuropsychological comparison of guilt and grief: A review of guilt aspects in prolonged grief disorder. *Omega: Journal of Death and Dying*. 302228211024111. doi: 10.1177/00302228211024111, 2021.
- Alizadeh M, Manmatharayan AR, Johnston T, Thalheimer S, Finley M, Detloff M, Sharan A, Harrop J, Newberg A, Krisa L, Mohamed FB. Graph theoretical structural connectome analysis of the brain in patients with chronic spinal cord injury: preliminary investigation. *Spinal Cord Series and Cases*. 7(1):60. doi: 10.1038/s41394-021-00424-3, 2021.
- Shahrampour S, Heholt J, Wang A, Vedaei F, Mohamed FB, Alizadeh M, Wang Z, Zabrecky G, Wintering N, Bazzan AJ, Leist TP, Monti DA, Newberg AB. N-acetyl cysteine administration affects cerebral blood flow as measured by arterial spin labeling MRI in patients with multiple sclerosis. *Heliyon*. 7(7):e07615. doi: 10.1016/j.heliyon.2021.e07615, 2021.
- **Newberg AB**, Wintering NA, Hriso C, Vedaei F, Stoner M, Ross R. Alterations in functional connectivity measured by functional magnetic resonance imaging and the

relationship with heart rate variability in subjects after performing Orgasmic Meditation: An exploratory study. *Frontiers in Psychology*. 12:708973. doi:10.3389/fpsyg.2021.708973, 2021.

- Amen DG, Henderson TA, Newberg A. SPECT Functional Neuroimaging Distinguishes Adult Attention Deficit Hyperactivity Disorder From Healthy Controls in Big Data Imaging Cohorts. *Frontiers in Psychiatry*. 12:725788. doi: 10.3389/fpsyt.2021.725788, 2021.
- Vedaei F, Newberg AB, Alizadeh M, Muller J, Shahrampour S, Middleton D, Zabrecky G, Wintering N, Bazzan AJ, Monti DA, Mohamed FB. Resting-state functional MRI metrics in patients with chronic mild traumatic brain injury and their association with clinical cognitive performance. *Frontiers in Human Neuroscience*. 2021;15:768485. doi:10.3389/fnhum.2021.768485, 2021.
- Jansen WJ, Janssen O, Tijms BM, … Newberg A, … Zetterberg H; Amyloid Biomarker Study Group. Prevalence estimates of amyloid abnormality across the Alzheimer disease clinical spectrum. *JAMA Neurology*. Published online. doi:10.1001/jamaneurol.2021.5216, 2022.
- Moss AS, Reibel DK, Wintering N, Vedaei F, Porter H, Khosravi M, Heholt J, Alizadeh M, Mohamed FB, **Newberg AB**. Cerebral blood flow and brain functional connectivity changes in older adults participating in a Mindfulness-Based Stress Reduction program. *Behavioral Sciences*. 2022;12(2):48. https://doi.org/10.3390/bs12020048, 2022.
- Selvan P, Hriso C, Mitchell J, Newberg A. Systematic review of yoga for symptom management during conventional treatment of breast cancer patients [published online ahead of print, 2022 Apr 6]. *Complementary Therapies in Clinical Practice*. 2022;48:101581. doi:10.1016/j.ctcp.2022.101581, 2022.
- Newberg A. What defines a person? *Religion, Brain & Behavior*. DOI: 10.1080/2153599X.2022.2050797.
- **Newberg AB**, Coble R, Khosravi M, Alavi A. Positron Emission Tomography-Based assessment of cognitive impairment and dementias, Critical role of fluorodeoxyglucose in such settings. *PET Clinics*. 17(3):479-494, 2022.
- Gomaa S, West C, Lopez AM, Zhan T, Schnoll M, Abu-Khalaf M, Newberg A, Wen KY. A telehealth-delivered Tai Chi intervention (TaiChi4Joint) for managing aromatase inhibitor-induced arthralgia in patients with breast cancer during COVID-19: Longitudinal pilot study. *JMIR Formative Research*. 2022;6(6):e34995. doi:10.2196/34995, 2022.
- Gottfried S, Pontiggia L, Newberg A, Laynor G, Monti D. Continuous glucose monitoring metrics for earlier identification of pre-diabetes: protocol for a systematic

review and meta-analysis. *BMJ Open*. 12(8):e061756. doi:10.1136/bmjopen-2022-061756, 2022.

- Saraei MA, Newberg AB, Hosseini SR, Bayati T, Batouli SAH. Comparing the three states of Dhikr, meditation, and thinking about God: An fMRI study, *Religion, Brain* & *Behavior*. DOI: 10.1080/2153599X.2022.2108888, 2022.
- Støttrup CC, Mortensen CH, Piri R, Khosravi M, Newberg A, Andersen MO, Alavi A, Grupe P, Høilund-Carlsen PF. "Visualization" of pain using cerebral 18F-FDG PET/CT following surgical treatment of lumbar disc herniation. *European Spine Journal*. DOI: 10.1007/s00586-022-07442-1, 2022.

## Abstracts:

- Newberg A, Kumar A, Miller D, Alavi A. MRI volumetrics in Alzheimer's Disease. *American Psychiatric Association's 145th Annual Meeting.* Washington, D.C. May, 1992.
- **Newberg A**, Alavi A, Souder E, Reivich M. Quantitative MRI and PET in patients with primary progressive aphasia. *University of Pennsylvania Institute on Aging, 1992 Conference on Aging.* Philadelphia, Pennsylvania. May, 1992.
- Alavi A, Newberg A, Souder E, Reivich M. Quantitative MRI and PET in normal aging and patients with dementia of the Alzheimer type. University of Pennsylvania Institute on Aging, 1992 Conference on Aging. Philadelphia, Pennsylvania. May, 1992.
- Alavi A, **Newberg A**, Souder E, Reivich M. Comparison of quantitative MRI and FDG-PET between patients with multi-infarct dementia and dementia of the Alzheimer type. *Second World Congress of Stroke, International Stroke Society.* September, 1992.
- **Newberg A**, Alavi A, Souder E, Reivich M, Grossman M. Quantitative PET and MRI analysis in patients with primary progressive aphasia (PPA). *Journal of Nuclear Medicine* 33: 857, 1992.
- Alavi A, **Newberg A**, Souder E, Reivich M. Is absolute whole brain glucose metabolism a sensitive marker for Alzheimer's disease. *Journal of Nuclear Medicine* 33: 940, 1992.
- **Newberg A**, Alavi A, Souder E, Reivich M. A Comparison of FDG-PET and MRI data from patients with atypical dementias and Alzheimer's disease (AD). *Journal of Nuclear Medicine* 33: 965, 1992.
- **Newberg A**, Clark J. Changes in the central nervous system during long-term space flight. *NASA Space Life Sciences Training Symposium.* Washington D.C. August, 1992.

- d'Aquili EG, **Newberg AB**. Liminality, trance and unitary states in ritual and meditation. *Reclaiming our Rites Symposium, Notre Dame Center for Pastoral Liturgy*. University of Notre Dame, Indiana. October, 1992.
- Kumar A, Newberg A, Alavi A, Miller D, Berlin J, Gur RE, Gottlieb G. MRI volumetric measures in Alzheimer's disease: Relationship to clinical and neuropsychological variables. 6th Annual Meeting of the American Association of Geriatric Psychiatry, February, 1993.
- Kumar A, Newberg A, Alavi A, Smith R, Berlin J, Reivich M. High resolution 18-FDG PET studies in late life depression and Alzheimer's disease. *6th Annual Meeting of the American Association of Geriatric Psychiatry*, February, 1993.
- Kumar A, Newberg A, Alavi A, Smith R, Berlin J, Reivich M. High resolution 18-FDG PET studies in late life depression. *Biological Psychiatry* 33: 51A, 1993.
- Kumar A, Newberg A, Alavi A, Smith R, Berlin J, Reivich M. MRI volumetric studies in Alzheimer's disease. *Biological Psychiatry* 33: 142A, 1993.
- **Newberg AB**. Potential uses of functional neuroimaging in space. *IVth International Conference of the Space and Underwater Division of the World Federation of Neurology*. Fort Lauderdale, Florida. August, 1994.
- Kumar A, Miller D, Ewbank D, Yousem D, **Newberg A**, Gottlieb G, Lucki I. Quantitative anatomic measures and vascular risk factors in late life major depression: An MRI study. *American College of Neurology and Psychiatry*, 1994.
- **Newberg AB**, d'Aquili EG, Newberg SK. A neuropsychological model of multiple personality disorder and dissociative phenomena. *Annual Meeting for the Society of the Anthropology of Consciousness*. Berkeley, California. March, 1995.
- **Newberg A**, Baime M, d'Aquili E, Duncan D, Alavi A. HMPAO-SPECT imaging during intense Tibetan Buddhist meditation. *Society of Biological Psychiatry Annual Meeting*. Miami, Florida. May 1995.
- **Newberg AB**. Space and the human body: What you need to know to live in space. *Institute for Religion in an Age of Science, 42nd Annual Conference*. Star Island, New Hampshire. July, 1995.
- d'Aquili EG, **Newberg AB**. Consciousness and the machine. *Institute for Religion in an Age of Science, 42nd Annual Conference*. Star Island, New Hampshire. July, 1995.
- **Newberg AB**, d'Aquili EG. The quantum behavior of free will and predeterminism as it relates to the mind and consciousness. *The International Society for the Study of Human Ideas on Ultimate Reality and Meaning*. Toronto, Ontario. August, 1995.

- Newberg A, Baime M, d'Aquili E, Duncan D, Veloso P Alavi A. Cerebral blood flow during intense Tibetan Buddhist meditation measured by HMPAO-SPECT. *American Neuropsychiatric Association*. Pittsburgh, Pennsylvania. October, 1995.
- Mozley PD, Sadek AM, Alavi A, Gur RC, Muetz L, Kim HJ, Stecker MH, Newberg A. The non-linear effects of aging on the regional cerebral distribution of [Tc-99m] HMPAO in healthy workers. University of Pennsylvania Institute on Aging, 1996 Conference on Aging. Philadelphia, Pennsylvania. May, 1996.
- **Newberg A**, Alavi A. Changes in the central nervous system during long term space flight. *31st Committee on Space Research (COSPAR) Scientific Assembly.* Birmingham, England. July, 1996.
- Newberg A. d'Aquili EG. The search for extraterrestrial intelligence: What are we searching for? 5th International Conference on Bioastronomy, IAU Colloquium No. 161. Capri, Italy. July, 1996.
- **Newberg A**, Newberg S. Neurophysiology and mysticism: Transcending the boundaries of science and the humanities. Presented at the symposium entitled, "Psychology at the Limit: Expanding Horizons of Psychology as a Science". *American Psychological Association Annual Meeting*. Toronto, Ontario. August, 1996.
- Alavi A, Sadek A, Newberg A, LaRiccia P, Lattanand C, Lee L, Reich H, Mozley PD. The effects of pain and acupuncture on regional cerebral blood flow measured by SPECT imaging. *Physiology of Acupuncture: 1996 International Symposium*. Arlington, Virginia. September 1996.
- Newberg A, Alavi A, Baime M, d'Aquili E. Cerebral blood flow during intense meditation measured by HMPAO-SPECT: A preliminary study. *American College of Nuclear Physicians Annual Meeting*. Palm Springs, California. February, 1997.
- Newberg A, Sadek A, Alavi A, LaRiccia P, Lee L. Assessment of the effects of pain and acupuncture on regional cerebral blood flow using Tc-99m HMPAO SPECT imaging. *American College of Nuclear Physicians Annual Meeting*. Palm Springs, California. February, 1997.
- Newberg A, Alavi A. The study of the effects of long duration space flight on the central nervous system using modern imaging techniques. *13th Conference on Space Manufacturing*, Princeton, New Jersey. May, 1997.
- Newberg A, Alavi A, Clark C. FDG-PET findings and tau protein levels in patients with Alzheimer's Disease. *University of Pennsylvania Institute on Aging, 1997 Conference on Aging.* Philadelphia, Pennsylvania. May, 1997.

- **Newberg A**, Alavi A, Clark C. Comparison of FDG-PET and levels of tau protein in patients with Alzheimer's Disease. *Philadelphia Nuclear Medicine Conference*. Philadelphia, Pennsylvania. May, 1997.
- Mozley PD, Sadek A, Alavi A, Gur RC, Muenz LR, Bunow BJ, Kim H-J, Jolles PR, Stecker MH, Newberg A. Non-linear effects of aging on the cerebral distribution of [Tc-99m] HMPAO in healthy human volunteers. *Journal of Nuclear Medicine* 38: 284P, 1997.
- **Newberg A**, Alavi A, Clark C, Mozley PD, Arai H. Metabolic imaging severity rating scale (MISRS) for the assessment of cerebral dysfunction in Alzheimer's disease. *Journal of Nuclear Medicine* 38: 129P, 1997.
- **Newberg A**, Alavi A, Baime M, Mozley PD, d'Aquili E. The measurement of cerebral blood flow during the complex cognitive task of meditation using HMPAO-SPECT imaging. *Journal of Nuclear Medicine* 38: 95P, 1997.
- **Newberg A**, Alavi A, Sperling M, Sadek A, Mozley PD, Malamut B. Thalamic metabolic asymmetry on FDG-PET scans as a determinant of seizure outcome after temporal lobectomy. *Journal of Nuclear Medicine* 38: 92P, 1997.
- **Newberg A**, Alavi A, Sperling M, Sadek A, Mozley PD, Malamut B. Preoperative FDG-PET scans as a predictor of memory loss following temporal lobe surgery for seizure. *Journal of Nuclear Medicine* 38: 23P, 1997.
- **Newberg A**, Alavi A, Clark C, Mozley PD, Arai H. Comparison of FDG-PET and levels of Tau protein in patients with Alzheimer's disease. *Journal of Nuclear Medicine* 38: 128P-129P, 1997.
- Newberg A, Alavi A, Baime M, d'Aquili E. Cerebral blood flow during intense meditation measured by HMPAO-SPECT: A preliminary study. *Clinical Nuclear Medicine*. 23: 58, 1997.
- **Newberg A**, Sadek A, Alavi A, LaRiccia P, Lee L. Assessment of the effects of pain and acupuncture on regional cerebral blood flow using Tc-99m HMPAO SPECT imaging. *Clinical Nuclear Medicine*. 23: 57, 1997.
- Newberg A, Alavi A, LaRiccia P, Lee L, Sadek A. Determination of cerebral blood flow correlates of acupuncture using Tc-99m HMPAO SPECT imaging. *American College of Nuclear Physicians Annual Meeting*. Las Vegas, Nevada. January, 1998.
- **Newberg A**, Alavi A, Clark CM, Smith RJ, Benard F. Standardized whole brain uptake in Alzheimer's disease: A new quantitative approach. *Journal of Nuclear Medicine* 39: 210P, 1998.

- **Newberg A**, Alavi A, LaRiccia P, Lee L, Lattanand C, Pourdehnad M, Mozley PD. The effects of acupuncture on regional cerebral blood flow measured by Tc-99m HMPAO SPECT imaging. *Journal of Nuclear Medicine* 39: 206P, 1998.
- Newberg A, Alavi A, Clark CM. Standardized whole brain uptake in Alzheimer's disease: A new quantitative approach. *University of Pennsylvania Institute on Aging*, 1998 *Conference on Aging*. Philadelphia, Pennsylvania. May, 1998.
- **Newberg A**. Religion, spirituality and the neurosciences. Presented at the symposium entitled, "Spirituality and Health: State-of-the-Art Scientific Agenda". *American Psychiatric Association Annual Meeting*. Toronto, Ontario. June, 1998.
- Newberg A. Mind, brain, and spirit: Toward a neuroscience of spiritual experience. Presented at the symposium entitled, "Scientific Spirituality -- Can It Be Scientific? Can It Be Spiritual?". *American Psychological Association Annual Meeting*. San Francisco, California. August, 1998.
- **Newberg A**, Alavi A, and Clark C. The metabolic imaging severity rating scale (MISRS) in Alzheimer's disease: Comparison with quantitative data. *European Journal of Nuclear Medicine* 25(8):1068, 1998.
- Newberg A. The neurophysiology of religious experience. Presented at the seminar entitled, "Religion, Spirituality, and Medicine: Overview of the Research and Implications for Education." *Society for Teachers in Family Medicine Annual Spring Conference*: Seattle, Washington. April, 1999.
- Matthies A, Newberg A, Smith RJ, Alavi A. The effects of smoking on the lung uptake in FDG-PET. *European Journal of Nuclear Medicine*: 1999.
- LaRiccia P, **Newberg A**, Lee L, Alavi A. Effect of pain and acupuncture on regional cerebral blood flow as measured by functional neuroimaging. *15th Annual International Symposium on Acupuncture and Electro-Therapeutics*. October, 1999.
- Newberg A, Alavi A. FDG-PET of the brain in patients with Lyme disease. *Journal of Nuclear Medicine* 41: 224P, 2000.
- **Newberg A**, Alavi A, Clark C. Comparison of FDG-PET and levels of Tau protein in the diagnosis of patients with dementia. *Journal of Nuclear Medicine* 41: 64P, 2000.
- Yun M, Araujo L, Yeh D, Matthies A, Jang S, **Newberg A**, Alavi A. F-18 uptake in large arteries. *European Journal of Nuclear Medicine* 27:945, 2000.
- **Newberg A**, Alavi A, Baime M. Cerebral blood flow during intense meditation measured by HMPAO-SPECT: A preliminary study. *European Journal of Nuclear Medicine* 27: 1104, 2000.

- Cotter A, **Newberg A**, Hickeson M, Reilly P, Mozley PD, Alavi A. Metabolic image severity rating scale (MISRS) in Alzheimer's disease. *Cognitive Neuroscience Society* March, 2001.
- Cotter A, **Newberg A**, Hickeson M, Reilly P, Mozley PD, Alavi A. Substantially reduced partial perfusion is equal to no perfusion in predicting brain death. *Journal of Nuclear Medicine* 42: 234, 2001.
- Yun M, Cotter A, Kim W, Eldeiry L, Newberg A, Alavi A. 18F FDG Uptake in the large arteries: Correlation with the risk factors of atherosclerosis. *Journal of Nuclear Medicine* 42: 2, 2001.
- Cotter A, **Newberg A**, Mozley PD, Alavi A. Consequences of mild to moderate head trauma as determined by positron emission tomography. *Journal of Nuclear Medicine* 42: 234, 2001.
- Newberg A, Peres JFP, Magalhaes ACA, Campos J, Peres MJ, Albuquerque VEP, Peres MFP, Cavini R, Simao M, Veras RP, Moll Neto J. Cerebral blood flow changes during retrieval of traumatic memories before and after psychotherapy: a SPECT study. *European Journal of Nuclear Medicine* 28: 1190, 2001.
- <u>A. Newberg</u>, A. Cotter, G. Glosser, A. Alavi, C. Clark, P.D. Metabolism in brain areas not usually involved in Alzheimer's are associated with neuropsychological deficits. *European Journal of Nuclear Medicine* 28: 1088, 2001.
- Gladding R, Altman S, Shulli B, Newberg A. Initial observations noted in an attempt to minimize myocardial uptake of FDG in whole body PET scans. *Academy of Metabolic Imaging* 2001.
- Alavi A, Surti KS, Newberg A. Preliminary report of performance of high resolution Gadalinium Orthosilicate (GSO)- based dedicated brain PET scanner. *Journal of Nuclear Medicine* 43: 296P, 2002.
- Udeshi M, **Newberg A**, Hurtig H, Siderowf A, Mozley PD, Stern M, Plössl K, Mozley L, Leopold N, Wintering N, Alavi A, Acton P, Kung H. Dopamine transporter uptake differentiates patients with progressive supranuclear palsy. *Journal of Nuclear Medicine* 44: 235P, 2003
- Ances B, Liebeskind DS, Newberg A, Alavi A. Concomitant SPECT and PET reveal early uncoupling of cerebral blood flow and metabolism after bilateral thalamic infarcts. *American Society of Neuroradiology* Washington, DC. April, 2003.
- Udeshi M, **Newberg A**, Hurtig H, Mozley PD, Wintering N, Stern M, Siderowf A, Plössl K, Mozley L, Alavi A, Acton P, Leopold N, Kung H. Evaluation of dopamine transporter uptake in patients with multiple system atrophy. *Journal of Nuclear Medicine* 44: 236P, 2003.

- Wintering N, Newberg A, Udeshi M, Hurtig H, Plössl K, Siderowf A, Stern M, Mozley PD, Alavi A, Mozley L, Acton P Kung H. Differentiating hemi-Parkinson's from Parkinson's using TRODAT SPECT imaging. *Journal of Nuclear Medicine* 44: 236P, 2003.
- **Newberg A**, Baltuch G, Mozley PD, Kung H, Hurtig H, Plössl K, Wintering N, Udeshi M, Acton P. Longitudinal evaluation of dopamine transporters in Parkinson's patients treated with subthalamic nuclei stimulation surgery compared to medication. *Journal of Nuclear Medicine* 44: 119P, 2003.
- Plössl K, Choi SR, Oya S, **Newberg A**, Kung H. Improved preparation of [I-123] ADAM for human studies. *Journal of Nuclear Medicine* 44: 100P, 2003.
- Johnson G, Dadparvar S, Rebenstock A, Reich PE, Zhuang HM, **Newberg A**, Schuster S, Alavi A. Critical role of FDG-PET imaging prior to radioimmune therapy in patients with non-Hodgkins lymphoma. *Journal of Nuclear Medicine* 44: 187P, 2003.
- Rebenstock A, Dadparvar S, Johnson G, Reich PE, Zhuang HM, Newberg A, Schuster S, Alavi A. Predictive value of FDG-PET for response to radiolabeled monoclonal antibody treatment for non-Hodgkins lymphoma. *Journal of Nuclear Medicine* 44: 188P, 2003.
- Dadparvar S, Chotipanich C, Liang L, Fuster D, Lee B, Zhuang H, **Newberg A**, Alavi A. Role of FDG-PET imaging in diagnosis of recurrent pancreatic carcinoma. *Journal of Nuclear Medicine* 44: 395P, 2003.
- Dadparvar S, Chotipanich C, Guan L, Fuster D, Bhutani C, Zhuang H, Newberg A, Alavi A. Role of FDG-PET imaging in diagnosis of recurrent pancreatic carcinoma. *Journal of Nuclear Medicine* 44: 131P, 2003.
- Dadparvar S, Anderson GS, Newberg A, Alavi A, Mandel SJ. The clinical usefulness of I-123Na whole body imaging in surveillance of patients with thyroid carcinoma. *Journal of Nuclear Medicine* 44: 93P, 2003.
- Harmer L, Soulen MC, Clark TW, Alavi A, **Newberg A**. Y-90 microsphere radioembolization of hepatoma. *Journal of Nuclear Medicine* 44: 176P, 2003.
- Liebeskind DS, Ances B, **Newberg A**, Moonis G, Melhem ER, Alavi A. Serial FDG-PET and MRI of transient cortical and cerebellar lesions due to status epilepticus. *American Society of Neuroradiology*, 2003.
- Newberg A, Amsterdam J, Ploessl K, Wintering N, Alavi A, Mozley PD, Mozley L, Kung H. Dopamine transporter binding in bipolar and unipolar depression patients. *Journal of Nuclear Medicine* 45: 131P, 2004.

- Kumar R, Potenta S, Loving VA, Zhuang HM, Orel S, Schnall M, Conant E, Weinstein S, Devis S, Kung JW, Newberg A, Birnbaum J, Czerniecki B, Alavi A. FDG-PET positive lymph nodes are highly predictive of metastasis in breast cancer. *Journal of Nuclear Medicine* 45: 154P, 2004.
- **Newberg A**, Acton P, Ploessl K, Siderowf A, Stern M, Hurtig H, Alavi A, Mozley PD, Kung H. Test-Retest Variability of Tc-99m TRODAT for measuring dopamine transporter binding. *Journal of Nuclear Medicine* 45: 262P, 2004.
- Lee B, Newberg A, Kung J, Alavi A. FDG PET findings in patients with encephalitis. *Journal of Nuclear Medicine* 45: 267P, 2004.
- **Newberg A**, Ploessl K, Wintering N, Alavi A, Udeshi M, Kung H. Age related changes in serotonin transporter binding measured by I-123 ADAM. *Journal of Nuclear Medicine* 45: 279P, 2004.
- Newberg A, Farrar J, Hersh E, Wintering N, Swanson R, Secreto S, McMenamin E, Alavi A. Pain, placebo effect, and cerebral blood flow. *Journal of Nuclear Medicine* 45: 282P, 2004.
- **Newberg A**, Amsterdam J, Ploessl K, Wintering N, Alavi A, Mozley PD, Kung H. Dopamine transporter binding in young and old subjects with depressive symptoms. *Journal of Nuclear Medicine* 45: 283P, 2004.
- Kumar R, Bozkurt MF, Maillard I, Srikanthan S, Zhuang HM, Newberg A, Schuster S, Xiu Y, Alavi A. Positive FDG-PET scans after a few cycles of chemotherapy is predictive of poor prognosis in patients with aggressive lymphoma and Hodgkin's disease. *Journal of Nuclear Medicine* 45: 316P, 2004.
- Kumar R, Bozkurt MF, Maillard I, Srikanthan S, Zhuang HM, Newberg A, Schuster S, Xiu Y, Alavi A. Comparison of whole-body F18-FDG-PET and CT scans for restaging malignant lymphoma. *Journal of Nuclear Medicine* 45: 317P, 2004.
- Kumar R, Bozkurt MF, Maillard I, Srikanthan S, Zhuang HM, Newberg A, Schuster S, Alavi A. Predictive value of whole body FDG-PET vs CT scans following first line chemotherapy in Hodgkin's disease and non-Hodgkin's lymphomas. *Journal of Nuclear Medicine* 45: 318-319P, 2004.
- Kumar R, Zhuang HM, Potenta S, Czerniecki B, Kung JW, Dadparvar S, **Newberg A**, Alavi A. Does the density of breast parenchymal tissue effect the sentinel lymph node localization? *Journal of Nuclear Medicine* 45: 356P, 2004.
- Shrikanthan S, Berkowitz A, Zhuang H, Bural G, **Newberg A**, Shuster S, Alavi A. FDG-PET imaging is an excellent predictor of outcome in lymphoma patients treated with stem cell transplantation. *Journal of Nuclear Medicine* 46: 39P, 2005.

- Shrikanthan S, Berkowitz A, Shuster S, Zhuang H, Newberg A, Alavi A. Radioimmunotherapy in lymphoma and role of FDG PET in assessment of response. *Journal of Nuclear Medicine* 46: 39-40P, 2005.
- **Newberg AB**, Crits-Christoph P, Wintering N, Ploessl K, Schamberger M, Narducci J, Alavi A. Dopamine transporter binding in recently abstaining cocaine users. *Journal of Nuclear Medicine* 46: 70-71P, 2005.
- Wintering N, **Newberg AB**, Crits-Christoph P, Ploessl K, Schamberger M, Narducci J, Alavi A. Dopamine transporter binding and neurospsychological test scores in cocaine users and healthy controls. *Journal of Nuclear Medicine* 46: 71P, 2005.
- Urhan M, Mavi A, Zhuang H, **Newberg A**, Alavi A, Mandel S. The evolving role of <sup>18</sup>FDG PET in the management of metastatic thyroid medullary carcinoma. *Journal of Nuclear Medicine* 46: 131P, 2005.
- Cheung M, Hochhold J, Reddy S, **Newberg A**, Zhuang H, Alavi A. Diagnoistic accuracy of FDG-PET imaging in detecting osteomyelitis of the diabetic foot. *Journal of Nuclear Medicine* 46: 134-135P, 2005.
- Hochhold J, Cheung M, Soleimanpour K, Newberg A, Zhuang H, Alavi A. Standardized uptake values of FDG in patients with Charcot joing versus osteomyelitis. *Journal of Nuclear Medicine* 46: 135P, 2005.
- Newberg AB, Wintering N, Amsterdam JD, Ploessl K, Swanson RL, Alavi A. Serotonin Transporter Binding in Patients With Major Depression Using 123I ADAM SPECT. *Journal of Nuclear Medicine* 46: 181-182P, 2005.
- Yu JQ, Zhuang H, Hernandez-Pampaloni M, Edwards K, Alavi A, **Newberg A**, Barrett J, Schall J, Charron M, Mascarenhas MR, Yu JQ. High fat content meal affects gastric emptying and small bowel transit. *Journal of Nuclear Medicine* 46: 224P, 2005.
- **Newberg AB**, Wang JJ, Rao H, Wintering N, Swanson RL, Karp JS, Alavi A, Greenberg JH, Detre JA. Concurrent CBF and CMRGlc changes during human brain activation by combined fMRI-PET scanning. *Journal of Nuclear Medicine* 46: 284-285P, 2005.
- Urhan M, Mavi A, Zhuang H, Dadparvar S, **Newberg A**, Alavi A, Mandel S. FDG PET in the management of well differentiated thyroid cancer with high TG level and negative iodine scan. *Journal of Nuclear Medicine* 46: 315-316P, 2005.
- Yu JQ, Hernandez-Pampaloni M, Zhuang H, Maris J, Charron M, Takalkar A, El-Haddad G, Dhurairaj T, Newberg A, Alavi A. Comparison of I-123 labeled MIBG diagnostic scan with posttherapeutic I-131 scan in patients with neuroblastoma. *Journal of Nuclear Medicine* 46: 333P, 2005.

- Shrikanthan S, Berkowitz A, Dhurairaj T, Zhuang H, Newberg A, Shuster S, Alavi A. FDG PET in the evaluation of disease activity in systemic T-cell lymphoma. *Journal* of Nuclear Medicine 46: 375P, 2005.
- Shrikanthan S, Cherian S, Lakhani P, Shuster S, Newberg A, Zhuang H, Alavi A FDG-PET in evaluation of marginal zone lymphoma. *Journal of Nuclear Medicine* 46: 376P, 2005.
- Mavi A, Urhan M, Zhuang H, Yu JQ, **Newberg A**, Schnall MD, Czerniecki BJ, Alavi A. Correlation between SUV changes with dual time point FDG-PET imaging and histopathology and tumor size in patients with breast cancer. *Journal of Nuclear Medicine* 46: 402P, 2005.
- Mavi A, Urhan M, Zhuang H, Dhurairaj T, Yu JQ, Houseni M, Newberg A, Kumar R, Schnall MD, Czerniecki BJ, Alavi A. Dual time point imaging: an effective method for improving accuracy of <sup>18</sup>FDG PET imaging in assessing primary breast cancer after diagnostic biopsy. *Journal of Nuclear Medicine* 46: 403-404P, 2005.
- Shrikanthan S, Berkowitz A, Bural G, **Newberg A**, Zhuang H, Alavi A. Evaluating the role of FDG PET imaging in assessing disease activity in sarcomas. *Journal of Nuclear Medicine* 46: 407-408P, 2005.
- Shrikanthan S, Berkowitz A, Dhurairaj T, Zhuang H, **Newberg A**, Alavi A. FDG PET findings correlate with histopathological results after neoadjuvant therapy for esophageal cancer. *Journal of Nuclear Medicine* 46: 423P, 2005.
- Mavi A, Urhan M, Zhuang H, Yu JQ, Newberg A, Schnall MD, Czerniecki BJ, Alavi A. The relationship between the receptor status and the SUV change over time on FDG-PET dual time point imaging in patients with breast cancer. *Journal of Nuclear Medicine* 46: 441P, 2005.
- Mavi A, Urhan M, Yu JQ, Lakhani P, Zhuang H, Davis S, Soleimanpour K, Posteraro A, Newberg A, Alavi A. Fluorine-18 Fluorodeoxyglucose uptake in normal breast: effect of breast density, menopausal status and age. *Journal of Nuclear Medicine* 46: 441P, 2005.
- Shrikanthan S, Berkowitz A, Bural GG, Zhuang H, Newberg A, Shuster S, Alavi A Efficacy of radioimmunotherapy in mantle cell lymphoma. *Journal of Nuclear Medicine* 46: 451P, 2005.
- Short EB, Kose S, Newberg A, George M, Kozel FA. Functional MRI investigation of meditation. Society of Biological Psychiatry. Atlanta, GA, 2005.
- Tang PH, Chryssikos T, Yang H, Garver J, Parvizi J, Zhuang H, **Newberg A**, Alavi A. 18F-FDG PET imaging vs. In-111 labeled white blood cell scan in evaluating

infected hip prosthesis: Correlation with Pre-scan Clinical Suspicion. *Journal of Nuclear Medicine* 47: 15P, 2006.

- Tang PH, Chryssikos T, Yang H, Garver J, Zhuang H, **Newberg A**, Alavi A. Evaluation of FDG-PET imaging in the detection of infection associated with knee arthroplasty. *Journal of Nuclear Medicine* 47: 16P, 2006.
- Chryssikos T, Tang PH, Hochold H, Yang H, Newberg A, Zhuang H, Alavi A. Comparison of the diagnostic accuracy of FDG-PET imaging with MRI and planar Xray in detecting osteomyelitis of the diabetic foot. *Journal of Nuclear Medicine* 47: 16P, 2006.
- Mavi A, Cermik TF, Zhuang H, Cucchiara AJ, **Newberg A**, Alavi A. The relationship between FDG uptake and the predictive and prognostic factors such as estrogen, progesterone and c-erbB-2 receptor state of the primary breast cancer lesions. *Journal of Nuclear Medicine* 47: 33P, 2006.
- Mavi A, Cermik TF, Urhan H, Zhuang H, **Newberg A**, Alavi A. The comparison of FDG-PET imaging findings for detecting axillary lymphatic metastasis to sentinal node based biopsy results. *Journal of Nuclear Medicine* 47: 39P, 2006.
- Mavi A, Cermik TF, Yu JQ, Urhan H, Zhuang H, **Newberg A**, Alavi A. The effects of age and menaupausal state on FDG uptake in normal breast tissue. *Journal of Nuclear Medicine* 47: 82P, 2006.
- Newberg AB, Wintering N, Clark CM, Ploessl K, Skovronsky D, Seibyl JP, Kung M, Kung HF. Use of 123I IMPY SPECT to differentiate Alzheimer's disease from controls. *Journal of Nuclear Medicine* 47: 78P, 2006.
- Wintering NA, Newberg AB, Crits-Christoph P, Ploessl K, Schamberger M, Narducci J. Dopamine transporter binding in cocaine users before and after community based outpatient psychotherapy. *Journal of Nuclear Medicine* 47: 141P, 2006.
- Karp JS, Saffer JR, Perkins AE, Alavi A, Newberg A, Loevner L. Benefit of time-offlight information for whole body FDG PET. *Journal of Nuclear Medicine* 47: 184P, 2006.
- Wintering NA, Newberg A, Ploessl K, Swanson RL, Siderowf A. Dopamine transporter binding and olfaction in early Parkinson's disease. *Journal of Nuclear Medicine* 47: 298P, 2006.
- Newberg AB, Stunkard AJ, Wintering N, Lundgren JD, Allison K, Ploessl K. 1123 ADAM SPECT scans in patients with night eating syndrome. *Journal of Nuclear Medicine* 47: 313P, 2006.

- Hochhold J, **Newberg AB**, Schmitz KH, Galantino M, Wintering N, Alavi A. Changes in cerebral glucose metabolism associated with the effects of chemotherapy. *Journal of Nuclear Medicine* 47: 314P, 2006.
- **Newberg AB**, Travis F, Wintering N, Nidich S, Schneider R. Cerebral glucose metabolic changes associated with a meditation based relaxation technique. *Journal of Nuclear Medicine* 47: 314P, 2006.
- Newberg AB, Wintering N, Morgan D. Cerebral blood flow during the complex vocalization task of glossolalia. *Journal of Nuclear Medicine* 47: 316P, 2006.
- Hochhold J, Bathaii M, Chryssikos T, Tang PH, **Newberg A**, Alavi A. Standardized Uptake Values (SUVs) of neurodegenerative osteoarthropathy and osteomyelitis in the diabetic foot. *Journal of Nuclear Medicine* 47: 340P, 2006.
- Cermik F, Mavi A, Zhuang H, **Newberg A**, Alavi A. The value of partial volume correction in the detection of the primary breast cancer. *Journal of Nuclear Medicine* 47: 388P, 2006.
- Mavi A, Cermik TF, Urhan M, Yu JQ, Zhuang H, **Newberg A**, Alavi A. The relationship of FDG uptake and its change over time with receptor state and type of the primary breast cancer. *Journal of Nuclear Medicine* 47: 435P, 2006.
- Mavi A, Cermik TF, Zhuang H, **Newberg A**, Alavi A. The relationship between the degree of FDG uptake on PET studies and the presence of metastasis at the time of diagnosis of the primary breast cancer. *Journal of Nuclear Medicine* 47: 436P, 2006.
- Mavi A, Cermik TF, Urhan M, Yu JQ, Zhuang H, **Newberg A**, Alavi A. The effect of breast density on FDG uptake and its change over time in normal breast tissue. *Journal of Nuclear Medicine* 47: 436P, 2006.
- Cermik TF, Mavi A, Zhuang H, **Newberg A**, Alavi A. The potential value of dual time point FDG-PET imaging for the detection of locoregional and distant metastasis from primary breast cancer. *Journal of Nuclear Medicine* 47: 437P, 2006.
- Mavi A, Cermik TF, Urhan M, Yu JQ, Zhuang H, **Newberg A**, Alavi A. Dual time point FDG-PET imaging detects breast cancer with high sensitivity and correlates well with histological subtypes. *Journal of Nuclear Medicine* 47: 439P, 2006.
- Shrikanthan S, Berkowitz A, Srinivas S, Hochhold J, Zhuang H, Newberg A, Dadparvar S, Shuster S, Alavi A. FDG PET in evaluation of bone marrow involvement in patients with lymphoma Correlation with subtypes and bone marrow biopsy patterns. *Journal of Nuclear Medicine* 47: 452P, 2006.

- Shrikanthan S, Berkowitz A, Hochhold J, Srinivas S, Zhuang H, Newberg A, Alavi A. FDG PET Findings are predictive of Histopathological response after neoadjuvant therapy for esophageal cancer. *Journal of Nuclear Medicine* 47: 465P, 2006.
- Newberg AB, Waldman MR, Wintering N, Maffei JA, Alavi A. Cerebral blood flow effects in long term meditators. *Journal of Nuclear Medicine* 48: 111P, 2007.
- Cermik TF, Mavi A, Zhuang H, **Newberg A**, Alavi A. Impact of FDG PET on the preoperative staging of newly diagnosed breast cancer. *Journal of Nuclear Medicine* 48: 138-139P, 2007.
- Mavi A, Cermik TF, Urhan M, Puskulcu H, Zhuang H, **Newberg A**, Alavi A. The effect of receptor state of breast cancer on FDG uptake at dual time point imaging. *Journal of Nuclear Medicine* 48: 140P, 2007.
- Newberg AB, Segal S, Alavi A. Effects of galactosemia on cerebral glucose metabolism measured by FDG PET. *Journal of Nuclear Medicine* 48: 250P, 2007.
- **Newberg AB**, Hersh EV, Farrar JT, Wintering N, Maffei JA, Alavi A. Cerebral blood flow changes associated with pain and pain relief in patients after third molar extraction. *Journal of Nuclear Medicine* 48: 251P, 2007.
- Chryssikos TJ, Iruvuri1 S, Flanagan H, Tang PH, **Newberg A**, Zhuang H, Alavi A. Can FDG-PET imaging accurately differentiate infected from non-infected painful hip prosthesis? *Journal of Nuclear Medicine* 48: 281P, 2007.
- Chryssikos TJ, Iruvuri1 S, Yang H, Flanagan H, **Newberg A**, Zhuang H, Alavi A. Evaluation of FDG-PET imaging in differentiating septic from aseptic painful knee prosthesis. *Journal of Nuclear Medicine* 48: 281P, 2007.
- Iruvuri S, Chryssikos TJ, Alzeair S, **Newberg A**, Zhuang H, Alavi A. FDG activity in patients with painful hip prosthesis and quantitative analysis. *Journal of Nuclear Medicine* 48: 282P, 2007.
- Chryssikos TJ, Malay S, Flanagan H, Krekun S, Newberg A, Zhuang H, Alavi A. The noninvasive detection of pedal osteomyelitis in the diabetic population: A comparison between FDG-PET, MRI, and conventional radiography. *Journal of Nuclear Medicine* 48: 282P, 2007.
- Chryssikos TJ, Hernandez Pampalonil M, Hochold J, **Newberg A**, Zhuang H, Alavi A. The role of FDG-PET imaging in detecting early Charcot's arthropathy in diabetic patients. *Journal of Nuclear Medicine* 48: 284P, 2007.
- Mavi A, Cermik TF, Urhan M, Puskulcu H, Zhuang H, Newberg A, Alavi A. Dual time point FDG-PET imaging in patients with newly diagnosed breast cancer. *Journal of Nuclear Medicine* 48: 366P, 2007.

- Mavi A, Cermik TF, Urhan M, Puskulcu H, Zhuang H, **Newberg A**, Alavi A. The performance of FDG-PET imaging for detecting and staging of axillary lymph node metastasis compared to sentinal node based biopsy results. *Journal of Nuclear Medicine* 48: 366P, 2007.
- Cermik TF, Mavi A, Zhuang H, **Newberg A**, Alavi A. The potential value of dual-timepoint FDG PET in detecting extra-axillary lymph node and distant metastasis of newly diagnosed breast cancer. *Journal of Nuclear Medicine* 48: 366P, 2007.
- Cermik TF, Mavi A, Zhuang H, **Newberg A**, Alavi A. The role of dual-time-point FDG-PET in assessing radiologically suspicious lesions in the contralateral breast in patients with newly diagnosed breast cancer. *Journal of Nuclear Medicine* 48: 367P, 2007.
- Mavi A, Cermik TF, Urhan M, Puskulcu H, Zhuang H, **Newberg A**, Alavi A. Dual time point imaging in differentiating post biopsy inflammation from invasive tumor in patients with newly diagnosed breast cancer. *Journal of Nuclear Medicine* 48: 367P, 2007.
- Cermik TF, Mavi A, Zhuang H, **Newberg A**, Alavi A. The potential value of dual time point FDG-PET imaging for the detection of noninvasive breast cancers. *Journal of Nuclear Medicine* 48: 368-369P, 2007.
- Dubroff J, Wintering N, Scheuermann J, Clark CM, **Newberg AB**. FDG-PET brain activation patterns in Alzheimer's disease and mild cognitive impairment. *Journal of Nuclear Medicine* 49: 218P, 2008.
- Dubroff J, Hernandez-Pampaloni N, Wintering N, Scheuermann J, **Newberg AB**. Effect of chemotherapy on FDG-PET brain activation patterns. *Journal of Nuclear Medicine* 49: 226P, 2008.
- **Newberg AB**, Wintering N, Khalsa D, Roggenkamp H. Effect of chemotherapy on FDG-PET brain activation patterns. *Journal of Nuclear Medicine* 49: 230P, 2008.
- Weyer A, Siderowf A, Weintraub D, Duda J, Wintering N, Clark C, Arnold S, **Newberg A**. Reduced serotonin transporter binding in patients with major depression compared to healthy controls: A SPECT study. *Journal of Nuclear Medicine* 50:236P, 2009.
- Roggenkamp H, Amsterdam J, Wintering N, **Newberg A**. Comparison of dopamine transporter binding in major depressive disorder and non-depressed controls. *Journal of Nuclear Medicine* 50:246P, 2009.
- Wintering N, Amsterdam J, Breslow E, **Newberg A**. Reduced serotonin transporter binding in patients with major depression compared to healthy controls: A SPECT study. *Journal of Nuclear Medicine* 50:249P, 2009.

- Ray R, **Newberg AB**, Scheuermann J, Wintering N, Saffer J, Schmitz A, Freifelder R, Karp J, Lerman C. Whole body dosimetry of [11C] carfentanil: A μ-opioid receptor imaging agent. *Journal of Nuclear Medicine* 50:388P, 2009.
- Romanowicz G, Dubroff J, **Newberg AB**. Effect of systemic cancer treatment on brain metabolism assessed by FDG PET. *Journal of Nuclear Medicine* 51:1804P, 2010
- Mountz J, Zhang Z, Laymon C, Price J, Boudhar S, **Newberg A**, Mathis C. ACRIN-PA 4004 study: Comparison of [F-18] flutemetamol and [C-11] PiB in normal control and Alzheimer's subjects. *Journal of Nuclear Medicine* 52:116P, 2011.
- <u>Newberg</u> A, Alavi A, Rovner B, Wintering N, Huang J, Arnold S. Comparison of FDG and Florbetapir PET for diagnosing Alzheimer's disease. *Journal of Nuclear Medicine* 52:174P, 2011.
- Saboury B, Musiek E, Torigian D, Mishra S, Udupa J, Reddin J, Hofheinz F, Detre J, Newberg A, Alavi A. Novel global quantitative assessment of the cerebral cortex on FDG-PET for Alzheimer's disease assessment. *Journal of Nuclear Medicine* 52:1251P, 2011.
- Monti D, **Newberg A**, Littman SJ, Mathews M, Lewis N, Mitchell EP. Intravenous vitamin C in combination with gemcitabine and erlotinib in subjects with metastatic pancreatic cancer. *Journal of Clinical Oncology* 29(suppl): abstract e14547, 2011.
- Littman SJ, Monti D, **Newberg A**, Bazzan A, Pillai MV, Lewis N, Yeo C, Levine M, Mitchell EP. A phase I open-label, dose-escalation study of intravenous ascorbic acid in combination with gemcitabine and erlotinib in patients with metastatic pancreatic cancer. *Journal of Clinical Oncology* 30: suppl 4; abstract 323, 2012.
- Allison KC, Studt SK, Berkowitz RI, Hesson LA, Dubroff J, Newberg A, Stunkard AJ. An open-label trial of escitalopram for night eating syndrome. *International Conference on Eating Disorders*. Austin, TX, 2012.
- Manning C, Waldman M, **Newberg A**. A neuroscientific approach for real estate professionals and university faculty to improve face-to-face communication skills. *American Real Estate Society*. Kohala Coast, HI, 2013.
- Wintering NA, Gepty AA, **Newberg AB**. Using fluorodeoxyglucose and florbetapir PET imaging in differential diagnosis of subjects with cardiovascular disease and symptoms of mild cognitive impairment or Alzheimer's disease. *Journal of Nuclear Medicine* 55:388P, 2014.
- Pizzi LT, Morlino A, Kash KM, **Newberg A**, Matthews MJ, Monti D. Comparative costs and effectiveness of mindfulness-based art therapy to usual support for women with cancer: Results from a randomized clinical trial. International Society for

Pharmacoeconomics and Outcomes Research Annual Meeting, Montreal, Canada, 2014.

- Intenzo CM, Kim SM, **Newberg A**. Does the trinary interpretation and reporting strategy for lung scintigraphy work in a nuclear medicine residency program? Radiological Society of North America Annual Meeting, 2015.
- Houshmand S, Salavati A, Werner T, Alavi A, **Newberg A**. Emerging role of PET/MRI in Neurology: An update on the current applications and pitfalls. *Journal of Nuclear Medicine* 55, 2014
- Khosravi M, **Newberg A**, Al-Zaghal A, Pournazari K, Arani L, Jahangiri P, Werner T, Alavi A. PET/MRI imaging as a practical tool in evaluating mild traumatic brain injury (mTBI). *Journal of Nuclear Medicine* 59, 2018.
- Khosravi M, **Newberg A**, Jahangiri P, Raynor W, Al-Zaghal A, Werner T, Alavi A. Innovative applications of combined PET/MRI modality in diagnosis and follow-up of Multiple Sclerosis. *Journal of Nuclear Medicine* 59, 2018.
- Khosravi M, **Newberg A**, Pournazari K, Jahangiri P, Al-Zaghal A, Seraj SM, Werner T, Alavi A. Unsettled role of tau imaging in dementia: potential benefits and limitations. *Journal of Nuclear Medicine* 59, 2018.
- Seraj SM, Zadeh MZ, Jahangiri P, Kaghazchi F, Kalboush E, Werner T, Newberg A, Hunt S, Alavi A, Revheim ME. FDG-PET response to nivolumab is predictive of tumor progression and survival in non-small cell lung cancer patients. *Journal of Nuclear Medicine* 61:1359P, 2020.
- Miao X, Borja A, Newberg A, Werner T, Alavi A. 5-HT1A and 5-HT1B imaging in the evaluation of treatment response in Major Depressive Disorder. *Journal of Nuclear Medicine* 61:1344P, 2020.
- Ayubcha C, Newberg A, Torigian D, Zabrecky G, Monti D, Moghbel M, Wintering N, Werner T, Alavi A. Application of a global derivation segmentation technique in mTBI: Optimizing grey and white matter segmentation in PET/MR. *Journal of Nuclear Medicine* 61, 2020.

## **Editorials, Reviews, Chapters:**

Newberg AB, Alavi A, Payer F. Single Photon Emission Computed Tomography in Alzheimer's Disease and Related Disorders. In George A (editor), *Neuroimaging Clinics of North America*. Philadelphia: W.B. Saunders Company. Volume 5 (1), pp. 103-123, 1995.

- Newberg AB, Alavi A. Role of Positron Emission Tomography in the Investigation of Neuropsychiatric Disorders. In Sandler MP, Coleman RE, Wackers FJT, Patton JA, Gottschalk A, and Hoffer PB (editors). *Diagnostic Nuclear Medicine, Third Edition*. Baltimore: Williams & Wilkins. Volume 2, pp.1099-1134, 1996.
- Newberg AB, Alavi A. The Role of Positron Emission Tomography in the Investigation of Neurological Disorders. In Henkin RE, Boles MA, Dillehay GL, Halama JR, Karesh SM, Wagner RH, and Zimmer AM (editors). *Nuclear Medicine*. St. Louis: Mosby. Volume 2, pp. 1331-1359, 1996.
- Newberg AB, Alavi A. Neuroimaging in Head Trauma. In Freeman LM (editor). Nuclear Medicine Annual 1996. Philadelphia: Lippincott-Raven Publishers. pp. 195-212, 1996.
- Newberg AB, Alavi A. Neuroimaging in Neurological Disorders. In Bigler ED (editor). *Neuroimaging II: Clinical Applications*. New York: Plenum Press. pp. 25-71, 1996.
- Newberg AB, Alavi A. Neuroimaging in the In Vivo Measurement of Regional Function in the Aging Brain. In Dani SU, Hori A, and Walter GF (editors). *Principles of Neural Aging*. Amsterdam: Elsevier Science B.V. pp. 397-408, 1997.
- Dierckx RA, **Newberg AB**, Pickut BA, Dierckx IM, Dobbeleir A, Audenaert K, Alavi A, De Deyn PP. <sup>201</sup>Thallium SPECT in Neuro-Oncology. In De Deyn PP, Dierckx RA, Alavi A, and Pickut BA (editors). *A Textbook of SPECT in Neurology and Psychiatry*. London, England: John Libbey & Company, Ltd. pp. 377-386.
- Newberg AB, Alavi A. Neuroimaging in Patients With Head Trauma. In De Deyn PP, Dierckx RA, Alavi A, and Pickut BA (editors). *A Textbook of SPECT in Neurology and Psychiatry*. London, England: John Libbey & Company, Ltd. pp. 409-414, 1997.
- Newberg A, Alavi A. The Study of the Effects of Long Duration Space Flight on the Central Nervous System Using Modern Imaging Techniques. In Faughnan B (editor). Space Manufacturing 11. The Challenge of Space: Past and Future. Princeton, NJ: Space Studies Institute, pp. 329-339, 1997.
- Gawin F, Newberg A, Brown W. Neuroscience Section. In Larson DB, Swyers JP, and McCullough ME (editors). *Scientific Research On Spirituality and Health: A Consensus Report.* Washington DC: National Insitute for Healthcare Research. pp. 83-103, 1998.
- Newberg AB, d'Aquili EG. The Neuropsychology of Spiritual Experience. In Koenig HG (editor). *Handbook of Religion and Mental Health*. San Diego: Academic Press. pp. 75-94, 1998.

- Newberg AB, Alavi A. Functional Neuroimaging in the Differential Diagnosis of Dementias. In Fazekas F, Schmidt, and Alavi A (editors). *Neuroimaging of Normal Aging and Uncommon Causes of Dementia*. The Netherlands: ICG Publications. pp.201-224, 1998.
- Newberg AB, d'Aquili EG, Newberg SK, DeMarici V. The Neuropsychological Basis of Forgiveness. In McCullough ME, Pargament KI, Thoresen CE (editors). *Forgiveness: Theory, Practice, and Research*. New York, NY: The Guilford Press. pp. 91-110, 2000.
- Newberg AB, d'Aquili. The neuropsychology of religious and spiritual experience. In Andresen J, Forman RKC (editors). *Cognitive Models and Spiritual Maps*. Bowling Green, Ohio: Imprint Academic. pp. 251-266, 2001.
- **Newberg AB**. Proof of Alternative Therapies. In Simon WH, Ehrlich GE, Sadwin A (editors). *Conquering Chronic Pain After Injury*. New York: Avery Penguin Putnam. pp. 158-172, 2002.
- Newberg AB, Alavi A. Role of Positron Emission Tomography in the Investigation of Neuropsychiatric Disorders. In Sandler MP, Coleman RE, Patton JA, Wackers FJT, Gottschalk A, and Hoffer PB (editors). *Diagnostic Nuclear Medicine, Fourth Edition.* Philadelphia: Lippincott Williams & Wilkins. pp.783-819, 2003.
- Newberg AB, Alavi A. PET Imaging In Seizure Disorders. In Valk PE, Bailey DL, Townsend DW, Maisey MN (editors). *Positron Emission Tomography: Basic Science and Clinical Practice*. London: Springer. pp. 329-340, 2003.
- Newberg AB. Religious Experience: Cognitive and Neurophysiological Aspects. In van Huyssteen JWV, Howell NR, Gregersen NH, Wildman WJ, Barbour I, Valentine R. (editors). *Encyclopedia of Science and Religion*. New York: Macmillan Reference USA. pp. 307-311, 2003.
- Newberg AB and Alavi A. Functional Imaging In Brain Tumors. In Peters M (editor). *Nuclear Medicine in Radiological Diagnosis*. London, England: Martin Dunitz. pp. 427-436, 2003.
- Newberg AB, Alavi A. Epilepsy and Related Seizure Disorders. In Peters M (editor). Nuclear Medicine in Radiological Diagnosis. London, England: Martin Dunitz. pp. 467-478, 2003.
- **Newberg AB**. Neuroscience and religion: Neuroepistemology. In Jones L (editor). *Encyclopedia of Religion*. New York: Macmillan Reference USA. pp. 6488-6492, 2005.

- **Newberg AB**. Neuroscience and religion: Neurotheology. In Jones L (editor). *Encyclopedia of Religion*. New York: Macmillan Reference USA. pp. 6492-6495, 2005.
- **Newberg AB**, Newberg SK. The neuropsychology of religious and spiritual experience. In Paloutzian RF, Park CL (editors). *The Handbook of the Psychology of Religion*. New York: Guilford Publications, Inc. pp. 199-215, 2005.
- Newberg AB, Newberg SK. A neuropsychological perspective on spiritual development. In Benson PL, Roehlkepartain EC, King PE, Wagener LM (editors). *Handbook of Spiritual Development in Childhood and Adolescence*. London: Sage Publications, Inc., pp. 183-196, 2005.
- Lee BY, Newberg AB. Religion and spirituality in pain management. In Cole BE (editor), *Pain Management: A Practical Guide for Clinicians, Seventh Edition*. Boca Raton: CRC Press, 2005.
- Newberg AB. The neurobiology of consciousness. In Laderman G, Eisen A (editors). *Science, Religion, and Society: History, Culture and Controversy.* Armonk, NY: M.E. Sharpe, Inc., 2005.
- Newberg AB. Positron Emission Tomography. In Pretorius ES, Solomon JA (editors). *Radiology Secrets*. Philadelphia, PA: Elsevier, Inc., pp. 401-408, 2006.
- Newberg AB. Bone scans. In Pretorius ES, Solomon JA (editors). *Radiology Secrets*. Philadelphia, PA: Elsevier, Inc., pp. 409-416, 2006.
- Newberg AB. V/Q scans. In Pretorius ES, Solomon JA (editors). *Radiology Secrets*. Philadelphia, PA: Elsevier, Inc., pp. 417-426, 2006.
- Newberg AB. Thyroid scintigraphy. In Pretorius ES, Solomon JA (editors). *Radiology Secrets*. Philadelphia, PA: Elsevier, Inc., pp. 427-434, 2006.
- Newberg AB. GI/GU scintigraphy. In Pretorius ES, Solomon JA (editors). *Radiology Secrets*. Philadelphia, PA: Elsevier, Inc., pp. 435-447, 2006.
- Newberg AB. Nuclear cardiology. In Pretorius ES, Solomon JA (editors). *Radiology Secrets*. Philadelphia, PA: Elsevier, Inc., pp. 448-458, 2006.
- **Newberg AB**. The neurobiology of spiritual transformation. In Koss-Chioino JD, Hefner P (editors). *Spiritual Transformation and Healing*. Lanham, MD: AltaMira Press, Inc., pp. 189-205, 2006.
- **Newberg AB**. The neurobiology of spiritual transformation. In McNamara P, (editor). *Where God and Science Meet.* Westport, CT: Praeger, pp. 15-32, 2006.

- Newberg AB. Neurobiology and consciousness. In Eisen A, Laderman G, (editors). *Science, Religion, and Society.* Armonk, NY: M.E. Sharpe, pp. 543-554, 2006.
- Andersen B, Newberg A. Compassion in mystical experiences. In Greenberg YK. Encyclopedia of Love in World Religions. Santa Barbara, CA: ABC Clio, Inc., pp. 125-127, 2008.
- Newberg AB, Acton PD. Single photon emission computed tomography. In Factor SA, Weiner WJ, (editors). *Parkinson's Disease: Diagnosis and Clinical Management*. New York, NY: Demos Medical Publishing, pp. 293-304, 2008.
- **Newberg AB**, Alavi A. Single photon emission computed tomography (SPECT), Technique. *New Encyclopedia of Neuroscience*. 2008.
- **Newberg AB**. Spirituality, the brain, and health. *Measuring the Immeasurable*. Boulder, CO: Sounds True, pp. 349-371, 2008.
- **Newberg AB**. Brain science and belief. *The Edge of Reason?* London: Continuum International Publishing Group, pp. 109-118, 2008.
- **Newberg AB**. The Yogic brain. *Kundalini Rising: Exploring the Energy of Awakening*. Boulder, CO: Sounds True, pp. 117-126, 2009
- **Newberg AB**, Alavi A. Single photon emission computed tomography (SPECT): Technique. *Encyclopedia of Neuroscience*. Oxford: Elsevier, pp. 871-880, 2009.
- Roggenkamp H, Waldman MR, Newberg AB. Religious experience: Psychology and neurology. In: Banks WP, (Editor), *Encyclopedia of Consciousness*. Oxford: Elsevier, Volume 2, pp. 273-287, 2009.
- Wintering N, Newberg AB. Preclinical assessment of safety in human subjects. In: Gad SC (Editor), *Clinical Trials Handbook*. Hoboken: John Wiley & Sons, Inc., pp. 71-86, 2009.
- Lee BY, Newberg AB. The interaction of religion and health. In Monti DA, Beitman BD (editors), *Integrative Psychiatry*. New York: Oxford University Press, pp. 408-444, 2009.
- **Newberg AB**. Religion and the Brain. In *Cerebrum: Emerging Ideas in Brain Science*. Washington DC: Dana Press, pp. 152-174, 2010.
- Newberg AB. Positron Emission Tomography. In Pretorius ES, Solomon JA (editors). *Radiology Secrets*. Philadelphia, PA: Elsevier, Inc., pp. 369-375, 2010.
- Newberg AB. Bone scans. In Pretorius ES, Solomon JA (editors). *Radiology Secrets Plus*. Philadelphia, PA: Elsevier, Inc., pp. 376-381, 2010.

- Newberg AB. V/Q scans. In Pretorius ES, Solomon JA (editors). *Radiology Secrets Plus*. Philadelphia, PA: Elsevier, Inc., pp. 382-388, 2010.
- Newberg AB. Thyroid scintigraphy. In Pretorius ES, Solomon JA (editors). *Radiology Secrets Plus*. Philadelphia, PA: Elsevier, Inc., pp. 389-393, 2010.
- Newberg AB. GI/GU scintigraphy. In Pretorius ES, Solomon JA (editors). *Radiology Secrets Plus.* Philadelphia, PA: Elsevier, Inc., pp. 394-402, 2010.
- Newberg AB. Nuclear cardiology. In Pretorius ES, Solomon JA (editors). *Radiology Secrets Plus*. Philadelphia, PA: Elsevier, Inc., pp. 403-409, 2010.
- Newberg AB. Interview. In Paulson S (editor). *Atoms & Eden*. Oxford: Oxford University Press, pp. 73-82, 2010.
- **Newberg AB**. The Cognitive Neuroscientific Study of Religion and Spirituality. In Grassie W (editor). *Advanced Methodologies in the Scientific Study of Religion and Spirituality*. Philadelphia, PA: Metanexus Institute, pp. 129-145, 2010.
- Khalsa DS, Newberg A. Kirtan Kriya meditation: A promising technique for enhancing cognition in memory-impaired older adults. In Hartman-Stein PE, LaRue A (editors). *Enhancing Cognitive Fitness in Adults*. New York: Springer, pp. 419-432, 2011.
- Newberg A, Monti DA. Neuroscience of spirituality. In Bouckaert L, Zsolnai L (editors). *The Palgrave Handbook of Spirituality and Business*. New York: Palgrave Macmillan, pp. 26-33, 2011.
- Monti D, Newberg A. Complementary mind-body therapies in cancer. In Carr BI, Steel J. *Psychological Aspects in Cancer*. New York: Springer, pp. 347-360, 2012
- Edwards J, Peres J, Monti DA, **Newberg AB**. The neurobiological correlates of meditation and mindfulness. In Moreira-Almeida A, Santos FS. *Exploring Frontiers of the Mind-Brain Relationship*. London: Springer, pp. 97-112, 2012.
- Newberg AB, Newberg SK. Hardwired for God: How the brain, Spirituality, and our development are linked. In *Mental Notes*. Meaford, ON: Mental Notes Canada, Inc., pp. 11-13, Fall, 2012.
- Moss AS, Monti DA, **Newberg AB**. Working memory and meditation. In Alloway TP, Alloway RG. *Working Memory: The Connected Intelligence*. New York: Psychology Press, pp. 261-274, 2012.
- Moss A, **Newberg A**, Monti D, Alavi A. Patterns associated with neurodegenerative disorders. In Papanicolaou AC. *Functional Brain Imaging in Neuropsychology and Cognitive Neurosciences*. New York: Oxford. (in press).

- Moss A, Newberg A, Monti D, Alavi A. Patterns associated with affective and cognitive disorders. In Papanicolaou AC. *Functional Brain Imaging in Neuropsychology and Cognitive Neurosciences*. New York: Oxford. (in press).
- Newberg A. Neurotheology. In Runehov ALC, Azari NP. *Encyclopedia of Sciences and Religions*. London: Springer, pp. 1517-1525, 2013.
- Yaden D, Newberg A. A new means for perennial ends: Self-transcendent experiences and noninvasive brain stimulation. In Ellens JH. Seeking the Sacred With Psychoactive Substances, Vol. 2. Santa Barbara: Praeger, pp. 303-324, 2014.
- Newberg A. Your brain on "Yes". In Cooper J. *The Yes Book: Writings About Yes*. Exult Road, pp. 11-13, 2014.
- Newberg A. The case for a Principia Neurotheologica. In Grenier GJ, Brunetta F. *The Individual in Society*. Dubuque, IA: Kendall Hunt Publishing Company, pp. 105-117, 2015.
- Yaden DB, Anderson DE, Mattar MG, Newberg A. Psychoactive stimulation and psychoactive substances: Conceptual and ethical considerations. In Ellens JH, Roberts TB. *The Psychedelic Policy Quagmire*. Santa Barbara: Praeger, pp. 219-236, 2015.
- Yaden D, Newberg A. Road to Damascus moments: Calling experiences as prospective epiphanies. In Yaden DB, McCall TD, Ellens JH. *Being Called: Scientific, Secular,* and Sacred Perspectives. Santa Barbara: Praeger, pp. 27-46, 2015.
- Moghbel M, Newberg A, Alavi A. Positron emission tomography: ligand imaging. In Masdeu JC, González RG. *Handbook of Clinical Neurology*, pp. 229-240, 2016.
- Yaden DB, Iwry J, Newberg AB. Neuroscience and religion: Surveying the field. In Clements NK. *Religion: Mental Religion*. Farmington Hills, MI: Macmillan Reference USA, pp. 277-299, 2017.
- Newberg AB, Olex S. Mind-body practices for the prevention and treatment of cardiovascular disease. In Roncella A, Pristipino. *Psychotherapy for Ischemic Heart Disease*. Switzerland: Springer International Publishing, pp. 173-186, 2017.
- Torigian DA, Newberg AB. PET of oncological disorders. In Torigian DA, Ramchandani P (editors). *Radiology Secrets Plus*. Philadelphia, PA: Elsevier, Inc., pp. 747-752, 2017.
- Torigian DA, Newberg AB. PET of non-oncological disorders. In Torigian DA, Ramchandani P (editors). *Radiology Secrets Plus*. Philadelphia, PA: Elsevier, Inc., pp. 753-757, 2017.

- Newberg AB. Bone scintigraphy. In Torigian DA, Ramchandani P (editors). *Radiology Secrets Plus.* Philadelphia, PA: Elsevier, Inc., pp. 758-766, 2017.
- Newberg AB, Intenzo C. Pulmonary scintigraphy. In Torigian DA, Ramchandani P (editors). *Radiology Secrets Plus*. Philadelphia, PA: Elsevier, Inc., pp. 767-773, 2017.
- Newberg AB. Thyroid, parathyroid, and salivary gland scintigraphy. In Torigian DA, Ramchandani P (editors). *Radiology Secrets Plus*. Philadelphia, PA: Elsevier, Inc., pp. 774-782, 2017.
- Newberg AB. Gastrointestinal and genitourinary scintigraphy. In Torigian DA, Ramchandani P (editors). *Radiology Secrets Plus*. Philadelphia, PA: Elsevier, Inc., pp. 783-794, 2017.
- Newberg AB, Intenzo C. Cardiac scintigraphy. In Torigian DA, Ramchandani P (editors). *Radiology Secrets Plus*. Philadelphia, PA: Elsevier, Inc., pp. 795-802, 2017.
- Newberg AB. Brain scintigraphy. In Torigian DA, Ramchandani P (editors). *Radiology Secrets Plus.* Philadelphia, PA: Elsevier, Inc., pp. 803-810, 2017.
- Newberg AB, Alavi A. Single Photon Emission Computed Tomography. In *Reference Module in Neuroscience and Biobehavioral Psychology*, Philadelphia, PA: Elsevier, Inc., pp. 1-10, 2017.
- Narayana S, Saboury B, Newberg A, Papanicolaou AC, Alavi A. Positron emission tomography: Blood flow and metabolic imaging. In Papanicolaou AC (editor). *Functional Brain Imaging in Neuropsychology and Cognitive Neurosciences*. New York: Oxford, pp. 61-80, 2017.
- Narayana S, Newberg A, Alavi A. Positron emission tomography: Ligand imaging. In Papanicolaou AC (editor). *Functional Brain Imaging in Neuropsychology and Cognitive Neurosciences*. New York: Oxford, pp. 81-102, 2017.
- Nash JD, Newberg A. Toward a unifying taxonomy and definition for meditation. In Josipovic Z, Baars BJ (editors). What can Neuroscience Learn from Contemplative Practices? Lausanne Switzerland: Frontiers in Science, pp. 132-149, 2017.
- **Newberg A**. The neuroscientific study of spiritual practices. In Josipovic Z, Baars BJ (editors). *What can Neuroscience Learn from Contemplative Practices?* Lausanne Switzerland: Frontiers in Science, pp 126-131, 2017.

- **Newberg A**. The spiritual brain: Science and religious experience. In Opris I, Casanova MF (editors). *The Physics of the Mind and Brain Disorders*. Switzerland: Springer International Publishing, pp. 649-670, 2017.
- Newberg AB, Yaden DB. The neurobiology of meditation and stress reduction. In Monti DA, Newberg AB (editors). *Integrative Psychiatry and Brain Health*. New York, NY: Oxford University Press, pp. 97-117, 2018.
- Yaden DB, Newberg AB. The interaction of religion and health. In Monti DA, Newberg AB (editors). *Integrative Psychiatry and Brain Health*. New York, NY: Oxford University Press, pp. 118-156, 2018.
- Monti DA, Newberg AB. Botanicals of interest to psychiatrists. In Monti DA, Newberg AB (editors). *Integrative Psychiatry and Brain Health*. New York, NY: Oxford University Press, pp. 177-204, 2018.
- Alavi A, Newberg AB. Functional neuroimaging: A transformative tool for integrative psychiatry. In Monti DA, Newberg AB (editors). *Integrative Psychiatry and Brain Health*. New York, NY: Oxford University Press, pp. 347-381, 2018.
- Wintering N, Newberg AB. Integrative approaches to depression. In Monti DA, Newberg AB (editors). *Integrative Psychiatry and Brain Health*. New York, NY: Oxford University Press, pp. 472-497, 2018.
- **Newberg AB**, Yaden DB. Neurocognitive Processes and Supernatural Beliefs. In Craffert PF, Baker JR, Winkelman MJ (editors). *The Supernatural After the Neuro-Turn*. London: Routledge, pp. 69-88, 2019.
- Newberg AB. Neuroscientific approaches toward understanding rituals. In Yaden DB, Zhao Y, Kaiping P, Newberg AB (editors). *Rituals and Practices in World Religions: Cross-Cultural Scholarship to Inform Research and Clinical Contexts*. Cham, Switzerland: Springer, pp, 31-46, 2020.
- Newberg AB, Yaden DB. Human enhancement from the Overview Effect in longduration space flights. In Scozik K (editor). *Human Enhancements for Space Missions: Lunar, Martian, and Future Missions to the Outer Planets*. Switzerland: Springer, pp. 105-112, 2021.
- Hriso C, Bazzan A, Monti D, Newberg A. Integrative Medicine and Hepatobiliary and Pancreatic Cancer: What to Expect. In Doria C, Rogart JN (editors). *Hepato-Pancreato-Biliary Malignancies*. Switzerland: Springer. doi.org/10.1007/978-3-030-37482-2\_49-1, 2021.
- **Newberg AB**. Changes in the central nervous system and their clinical correlates during long-term habitation in the Moon's environment. In Rappaport MB, Szocik K

(editors). *The Human Factor in the Settlement of the Moon: An Interdisciplinary Approach*. Switzerland: Springer Nature, pp. 127-140, 2021.

#### **Books:**

- d'Aquili EG, Newberg AB. *The Mystical Mind: Probing the Biology of Religious Experience*. Minneapolis, MN: Fortress Press. August, 1999.
- **Newberg AB**, d'Aquili EG, Rause VP. *Why God Won't Go Away: Brain Science and the Biology of Belief.* New York, NY: Ballantine Publishing Group. April, 2001.
- **Newberg AB**, Waldman MR. *Why We Believe What We Believe: Uncovering Our Biological Need for Meaning, Spirituality, and Truth.* New York, NY: Free Press, 2006.
- **Newberg AB**, Waldman MR. *How God Changes Your Brain: Breakthrough Findings from a Leading Neuroscientist*. New York, NY: Ballantine Books, 2009.
- Newberg AB. *Principles of Neurotheology*. Surrey, UK: Ashgate Publishing Ltd., September, 2010.
- Newberg AB, Waldman MR. *Words Can Change Your Brain*. New York, NY: Penguin Books, 2012.
- **Newberg AB**. *The Metaphysical Mind: Probing the Biology of Philosophical Thought*. CreateSpace Independent Publishing Platform, 2013.
- **Newberg AB**, Waldman MR. *How Enlightenment Changes Your Brain: The New Science of Transformation*. New York, NY: Penguin Random House, 2016.
- Monti DA, Newberg AB (editors). *Integrative Psychiatry and Brain Health*. New York, NY: Oxford University Press, 2018.
- **Newberg AB**. *Neurotheology: How Science Can Enlighten Us About Spirituality*. New York, NY: Columbia University Press, 2018.
- **Newberg AB**, Halpern D. *The Rabbi's Brain: Mystics, Moderns and the Science of Jewish Thinking*. Nashville, TN: Turner Publishing Co., 2018.
- Yaden DB, Zhao Y, Kaiping P, Newberg AB. Rituals and Practices in World Religions: Cross-Cultural Scholarship to Inform Research and Clinical Contexts. Cham, Switzerland: Springer, 2020.
- **Newberg AB**, Monti DA. Brain Weaver: Creating the Fabric of a Healthy Mind Through Integrative Medicine. San Diego, CA: Kales Press, 2021.

- Yaden DB, Newberg AB. The Varieties of Spiritual Experience: 21<sup>st</sup> Century Research and Perspectives. New York: Oxford, 2022.
- *Languages Translated*: English, Romanian, Japanese, Polish, Chinese, Italian, Russian, French, Bulgarian, Korean, Dutch, German, Arabic, Indonesian, Greek, Portuguese, Armenian

# **Alternative Media Productions:**

- **Newberg AB**. *God and the Brain: The Physiology of Spiritual Experience*. Boulder, CO: Sounds True, 2007. [Audio Program]
- **Newberg AB**. *Spiritual Practices for a Powerful Brain*. Wheeling, II: Nightingale Conant, 2012. [Audio Program]
- **Newberg AB**. *The Spiritual Brain: Science and Religious Experience*. Chantilly, VA: The Great Courses, 2012. [Video and Audio Program]
- **Newberg AB**. *The Whole You: How Integrative Medicine Benefits Your Mind, Body, and Spirit*. Audio Lecture Series. Learn25, 2020. [Audio Program]
- **Newberg AB**. *Is the Human Brain Hardwired for God?* One Day University Audio Lecture, 2021. [Audio Program]

# Print and Online Media:

- "Brain Waves". Philadelphia City Paper: Philadelphia, PA. (May 3, 1996).
- "Scanning the Brain's Sense of Divinity". <u>Philadelphia Inquirer</u>: Philadelphia, PA. (February 15, 1998).
- "Revelations In the Brain". <u>San Jose Mercury News</u>: San Jose, NM. (February 21, 1998).
- "Rituals Spark Brain Changes: The Bliss Machine". <u>New York Daily News</u>: New York. (February 28, 1998).
- "From Homeopathy to Herbal Therapy, Researchers Focus on Alternative Medicine". <u>The Chronicle of Higher Education.</u> (March 27, 1998).
- "Science and the Soul". Update: Newsletter for the Hospital of the University of Pennsylvania: Philadelphia, PA. (March, 1998).
- "Religion Need Not Be At Odds With Science". Centre Daily Times: State College, PA. (April 18, 1998).
- "Seeking the Biology of Spirituality". Los Angeles Times. (April 26, 1998).
- "Alternative Medicine Moves Towards the Mainstream". <u>Pennsylvania Gazette.</u> (May, 1998).
- "Alternative Medicine Moves Toward the Mainstream". <u>Pennsylvania Gazette.</u> (October 13, 1998).
- "The Higher Power". Update: Newsletter for the Hospital of the University of Pennsylvania: Philadelphia, PA. (December, 1998).
- "Spirituality and Health". Penn Pulse, Hospital of the University of Pennsylvania: Philadelphia, PA. (January, 1999).
- "Making Room for Spirituality". Penn Medicine, Hospital of the University of Pennsylvania: Philadelphia, PA. (Spring, 1999).
- "Research on the Link Between Spirituality and Health". Institute on Aging Newsletter, Hospital of the University of Pennsylvania: Philadelphia, PA. (Spring, 1999).

"Book Review". Publishers Weekly. (May 17, 1999).

"Books in Brief". Publishers Weekly. (May 31, 1999).

"Off the Shelf". <u>Pennsylvania Gazette.</u> (February, 2000).

- "Neuropsychological Correlates of Spiritual Experience". Institute on Aging Newsletter, Hospital of the University of Pennsylvania: Philadelphia, PA. (Winter, 2000).
- "Practitioner's Perspective". Spirituality and Medicine Connection, Newsletter for the National Institute of Healthcare Research. (Spring, 2000).
- "Wired for Ultimate Reality: The Neuropsychology of Religious Experience". Science & Spirit Magazine. (May/June, 2000).

"Sciences Greatest Mysteries". Popular Mechanics. (October, 2000).

"Book Review". Christian Century. (November, 2000).

- "Searching for the God Within". Newsweek Magazine. (January 29, 2001).
- "The Image of God". The Ecologist. (April, 2001).
- "In God We Still Trust". Boston Herald. (April 8, 2001).
- "Wired for God". Orange County Register, CA. (April 8, 2001).
- "Where Mind and Soul Meet". <u>Lafayette Hill Journal</u>, Philadelphia, PA. (April 13, 2001).
- "God on the Brain". Wisconsin State Journal, Madison WI. (April 15, 2001).
- "Exploring the Biology of Religious Experience". <u>National Catholic Reporter.</u> (April 20, 2001).
- "Exploring the Biology of Religious Experience". New Scientist. (April 21, 2001).
- "What's the Connection: Belief and the Brain". <u>Santa Barbara News-Press.</u> (April 22, 2001).
- "God is in the Neurons". Camera, Boulder CO. (April 28, 2001).
- "God and the Brain". Newsweek Magazine. (May 1, 2001).
- "A Scientific View of the Religious Experience". <u>Providence Sunday Journal</u>, Providence RI. (May 20, 2001).
- "Scientists' 'Why God' Explores Miracle, Biology of Spirituality". <u>Albuquerque</u> <u>Journal.</u> (May 20, 2001).

"Exploring the Biology of Religious Experience". <u>Pennsylvania Gazette.</u> (May/June, 2001).

"Book Review". NAPRA ReView. (May/June, 2001).

"Our Brains Are Built for Spirituality". <u>Gettysburg, PA Times</u>. (June 2, 2001).

"Science Seeks Brain's Role in Our Quest to Feed the Spirit". <u>Arizona Tribune.</u> (June 2, 2001).

"Tracing the Synapses of Our Spirituality". <u>Washington Post.</u> (June 17, 2001).

"Of Mind and Spirit". <u>Philadelphia Inquirer.</u> (July 2, 2001).

"Is God All in the Mind?". Book Review. Science. (July 6, 2001).

- "God and the Brain". Northeast Mississippi Daily Journal. (July 22, 2001).
- "Study: Religion Provides a 'Brain Rush'". Muskegan Chronicle. (July 27, 2001).

"Book Review". <u>Catholic Digest.</u> (August, 2001).

"Hardwired for God: Book Review". Cerebrum. (Summer, 2001).

- "Seeking Solace from the Dead". <u>Union Tribune</u>, San Diego. (August 17, 2001).
- "Brain Images Used to Study Religious Experience". <u>Journal Constitution</u>, Atlanta. (August 18, 2001).
- "Delving Into the Spiritual Matters of the Mind". <u>Buffalo News.</u> (August 19, 2001).
- "What is Consciousness". Yoga Journal (September/October, 2001).
- "The Science of God". <u>Readers Digest.</u> (December, 2001).
- "What Happens When You Meditate". Natural Health Magazine. (December 1, 2001).
- "Neurons to Nirvana". Issues: <u>Berkeley Medical Journal.</u> (Fall, 2001).
- "Spirituality Without Faith". <u>The Humanist.</u> (January, 2002).
- "Der gedachte Gott". Der Spiegel. (May 18, 2002).
- "How Meditation Lights Up the Brain". <u>Focus Magazine</u>: The Magazine of Science and Discovery. (British; June, 2002).

- "Science Searches the Brain for Mystical Experience". Research News & Opportunities in Science and Theology. (July/August, 2002).
- "This One is A No-Brainer". Book Review in The Jerusalem Post. (July 26, 2002).
- "Doctor Brings Message About God, the Brain to Savannah". <u>Savannah Morning News.</u> (September 11, 2002).
- "Brain Science and God: The Biological Basis of Belief". <u>Psychology Online Journal.</u> (Fall, 2002).
- "Brain Images Offer Disease, Religion Clues". United Press International Wire. (October 29, 2002).
- "The Seekers Searching for the Answers to the Great Questions of Science: Faith's Place". <u>The Star-Ledger.</u> (December 3, 2002).
- "Demon-Haunted Brain" Scientific American. (March, 2003).
- "Why Prayer Could Be Good Medicine". Parade Magazine. (March 23, 2003).
- "Meditation". <u>Time Magazine</u>. (August 6, 2003).
- "Illuminating the Mind: Imaging Explores the Mysteries of Meditation". <u>AuntMinnie.com.</u> (September 11, 2003).
- "God and Health: Is Religion Good Medicine?" <u>Newsweek Magazine.</u> (November 10, 2003).
- "Profiles". Philadelphia Inquirer. (December 21, 2003).
- "You Use That Stuff, Too". <u>Washington Post.</u> (June 29, 2004).
- "Conversations: Andrew Newberg". Science and Theology News. (July/August, 2004).
- "Is God in Our Genes?" <u>Time Magazine.</u> (October 25, 2004).
- "Choke Signals". <u>Golf Magazine.</u> (October, 2004).
- "Conversations: Andrew Newberg". Science and Theology News. (July/August, 2004).
- "The Little Book of Bleeps. Quotations from the Movie... What the Bleep Do We Know!?" (December, 2004).

"The Healing Power of Prayer". <u>Ladies Home Journal.</u> (December, 2004).

- "Slow Down -- Meditate". Philadelphia Inquirer. (May 30, 2005).
- "Anatomy of an Epiphany?" <u>Best Life.</u> (June, 2005).
- "Pourquoi Dieu?" Science & Vie, French Magazine. (August, 2005).
- "The Healing Power of Prayer". Ladies Home Journal. (December, 2004).
- "Extreme States?" Discover Magazine. (July, 2005).
- "New Center for Spirituality and the Mind at Penn Unites Intellectual Resources". <u>Newswise.</u> (April 25, 2006).
- "Religion on the Brain". Chronicle of Higher Education. (May 26, 2006).
- "Penn Med School Opens Center for Spirituality and the Mind". <u>Philadelphia Business</u> Journal. (May 22, 2006).
- "Give Prayer a Chance". Jewish Exponent. (June 1, 2006).
- "Is Speaking in Tongues Language?" <u>Wired</u>. (August 8, 2006).
- "God on the Brain". <u>Science</u>. Random Samples. Volume 313, Number 5792, Issue of 08 September 2006.
- "Is There Room for the Soul". U.S. News and World Report. (October 15, 2006).
- "Testing for the Lord's Voice". Philadelphia Inquirer. (October 30, 2006).
- "Language Center Of The Brain Is Not Under The Control Of Subjects Who 'Speak In Tongues'." <u>Science Daily</u>. (October 31, 2006).
- "A Neuroscientific Look at Speaking in Tongues". <u>New York Times.</u> (November 7, 2006).
- "Tongues on the Mind". <u>Science.</u> (November 10, 2006).
- "Close Encounters with the Divine". <u>USA Today.</u> (November 21, 2006).
- "Are Humans Hard-Wired for Faith". CNN Website. (April 5, 2007).
- "Belief Watch". Newsweek Magazine. (September 24, 2007).
- "The Science of Belief" Bicycling Magazine. (November, 2007).

- "Searching for God in the Brain" <u>Scientific American Mind Magazine</u>. (October/November, 2007).
- "The Neural Buddhists". <u>New York Times</u> Op Ed. (May 13, 2008).
- "Faith Beyond the Frontal Lobes". The Washington Post. (September 27, 2008).
- "Agnostic Machinery". Seed Magazine. (October 29, 2008).
- "How Faith Can Heal". <u>Time Magazine</u> Cover Story. (February 23, 2009).
- "Book Review". <u>O Magazine.</u> (April-May, 2009).
- "Book Review". Washington Post. (March 29, 2009).
- "A Searcher With Faith In Mind". Washington Post. (April 15, 2009).
- "Your Religious Beliefs Alter Your Brain, Says Author Andrew Newberg". <u>Toronto Star</u> Newspaper. (April 21, 2009).
- "This is Your Brain on Religion". San Francisco Chronicle. (April 27, 2009).
- "Prayer May Reshape Your Brain ... And Your Reality". NPR Online. (May 20, 2009).
- "This is Your Brain on Religion". USA Today, Editorial. (June 15, 2009).
- "The Biology of Belief". <u>Time Magazine</u>, Special Edition: Your Brain: A User's Guide. (August, 2009).
- "The God Experiments". Discover Magazine Special Edition: The Brain. (Fall, 2009).
- "Can Science Explain Heaven". Newsweek Magazine. (March 26, 2010).
- "Is the Supernatural Only Natural". Wall Street Journal. (March 27, 2010).
- "Flex Your Moral Muscle: God Can Change Your Brain". <u>The Huffington Post</u> Website. (April 20, 2010).
- "Four Steps to a Healthier Brain". Esquire Magazine. (June/July, 2010).
- "Can meditation change your brain? Contemplative neuroscientists believe it can". <u>CNN</u> <u>Website</u> Article. (October 26, 2010).
- "A Spiritual Dimension for Jefferson Researcher". <u>The Philadelphia Inquirer.</u> (November 8, 2010).

- "Science's 8 Greatest Unsolved Mysteries: Progress Report". <u>Popular Mechanics.</u> (February, 2011).
- "How Gen X and Gen Y Will Change Philadelphia". <u>Philadelphia Magazine.</u> (March, 2011).
- "Religious Experiences Shrink Part of the Brain" <u>Scientific American</u>. (May 31, 2011). [author].
- "Frontier Science". The Economic Times. (August 12, 2011).
- "Gratitude". The Christian Science Monitor. (November 21, 2011).
- "Your Words Matter". <u>Salon Online</u>. (June 3, 2012).
- "Sweet Talk". Prevention Magazine. (July, 2012).
- "A Pioneer in Neurotheology". Ivy League Christian Observer. (Summer, 2012).
- "How God Changes Your Brain for the Better". <u>The Baptist Times</u>. (November 7, 2012).
- "One Week at a Health Spa Improves Your Health, Study Shows". <u>Science Daily</u>. (November 19, 2012).
- "Channeling Spirits' Shuts Down Parts of Brain." <u>Discovery News</u>. (November 16, 2012).
- "When You Inject Spirit Mediums' Brains with Radioactive Chemicals, Strange Things Happen". <u>Forbes.com</u>. (November 18, 2012).
- "Health News: A week at a health spa improves health". <u>UPI News</u>. (November 20, 2012).
- "A week at a health spa improves health". <u>BreitBart News</u>. (November 20, 2012).
- "One-week spa treatment can help boost your health". <u>North Korea Times.</u> (online). (November 20, 2012).
- "Gazing Into Psychics' Brains May Reveal Mental Illness Secrets". <u>MedScape Medical</u> <u>News</u>. (November 20, 2012).
- "Brazilian Mediums Shed Light On Brain Activity During a Trance State". <u>Science</u> <u>Daily</u>. (November 20, 2012).
- "Brain Activity Of Brazilian Mediums Recorded Whilst In A Trance State." <u>Medical</u> <u>News Today</u>. (November 20, 2012).

"A week at a health spa improves health". <u>Big News Network</u>. (November 21, 2012).

- "Health Improvements Offered By A One-Week Stay At A Health Spa". <u>Medical News</u> <u>Today.</u> (November 21, 2012).
- "Scribes Who Take Dictation of the Dead". Philadelphia Inquirer. (November 26, 2012).
- "One-Week Spa Therapy Boosts Health". Times of India. (November 26, 2012).
- "Study Finds the Unexpected in the Brains of Spirit Mediums". <u>Psychology Today</u>. (December 5, 2012).
- "Envy and the Brain". <u>Self Magazine</u>. (December, 2012).
- "Have Goals, Will Travel: Visit a Destination Spa and Hit the Road to Better Health". <u>The Daily</u> (online magazine). (December 9, 2012).
- "Get Healthy the Hollywood Way". Hollywood Reporter. (January, 2013).
- "Does Science Show What 12 Steps Know?". <u>National Geographic Online</u>. (August 9, 2013).
- "Why We Talk in Tongues". New York Times Sunday Review. (August 18, 2013).
- "Speaking in Tongues: Glossolalia and Stress Reduction." <u>Dana Foundation Website</u>. (October 23, 2013).
- "What Lies at the Root of Extremism?" Nature Middle East. (December 22, 2013).
- "The Biology of Chill". <u>Real Simple</u> Magazine. (January, 2014).
- "Discovering Heaven". <u>Time Magazine</u> Special Issue. (April, 2014).
- "Why Are We All So Stressed". Philadelphia Magazine. (April, 2014).
- "Of Two Minds: Is the Brain Wired for Faith?" US Catholic Magazine. (June, 2014).
- "New Tack on Cancer Patient Anxiety". Philadelphia Inquirer. (July 13, 2014).
- "Faith and the Brain: An Interview with Dr. Andrew Newberg". <u>Leadership Journal</u>. (Summer, 2014).
- "Belief and the Brain". Deseret News. (August 9, 2014).

- "You Asked: Is Meditation Really Worth It?" <u>Time Magazine Online</u>. (October 8, 2014).
- "Signs of Religious Experience Sought Out By Science". <u>Los Angeles Times</u> Article. (January 6, 2015).
- "Can Alternative Therapies Help You Manage Diabetes?". <u>Everyday Health</u> Website. (September 18, 2015).
- "Five Questions: About How Prayer Affects the Brain". <u>Philadelphia Inquirer</u>. (September 20, 2015).
- "God Help Us? How Religion is Good (And Bad) For Mental Health". <u>LiveScience</u> Internet Site. (September 23, 2015).
- "God Help Us? How Religion is Good (And Bad) For Mental Health". <u>Huffington Post</u> Internet Site. (September 23, 2015).
- "Is Religion is Good or Bad For Mental Health". Nigerian Tribune. (October 3, 2015).
- "Mysticism, Oneness, Spirituality, and Describing the Indescribable". <u>The Mind</u> <u>Unleashed</u>. (November 15, 2015).
- "First Day of Lent: Why Attaching Religion To A Goal May Make It Easier To Achieve". <u>Medical Daily Website</u>. (February 10, 2016).
- "Neurotheology helps settle relationship between science, spirituality." <u>Pacific Daily</u> <u>News</u>. (March 19, 2016).
- "When You Hear a Call to Your Life's Work". Wall Street Journal. (May 11, 2016).
- "La Meditacion mas Cientifica". Hoy Newspaper. (May 12, 2016).
- "Going to church can help women be healthier, live longer". <u>Today Show Online</u>. (May 16, 2016).
- "Scientists are trying to solve the mystery of awe". <u>New York Magazine Online</u>. (May 26, 2016).
- "Researchers explore the science of awe". <u>CNN Online.</u> (May 26, 2016).
- "Natural molecule could improve Parkinson's". Science Daily. (June 16, 2016).
- "Natural molecule could improve Parkinson's". Psych Central. (June 16, 2016).
- "Natural molecule could improve Parkinson's". Israel Herald. (June 16, 2016).

- "Natural molecule could improve Parkinson's". India Online. (June 16, 2016).
- "Natural molecule could improve Parkinson's". <u>Newswise.</u> (June 16, 2016).
- "So You Think You Love Earth? Wait Until You See It in VR". <u>Wired Magazine.</u> (June 21, 2016).
- "LIFESTYLE: When science bows to God". Premium Times Nigeria. (August 29, 2016).
- "Taking an Overview By Thinking Like an Astronaut". <u>Huffington Post Online</u>. (September 9, 2016)
- "How Worship Music Deepens Our Faith". LifeZette.com. (September 19, 2016).
- "Just Chill: Meditation is for You." Better Homes and Gardens. (October, 2016).
- "Religious thoughts trigger reward systems like love, drugs." <u>CNN Online.</u> (November 29, 2016).
- "The neuroscience argument that religion shaped the very structure of our brains". <u>Quartz</u> <u>Online</u>. (December 3, 2016)
- "Spiritual retreats change feel-good chemical systems in the brain." <u>Science Daily.</u> (March 23, 2017).
- "Religious retreats can change the chemicals in your brain, discover scientists." <u>The</u> <u>Independent</u> (UK). (March 23, 2017).
- "Spiritual retreats change feel-good chemical systems in the brain." <u>Science Magazine.</u> (March 23, 2017).
- "Spiritual retreats change feel-good chemical systems in the brain." <u>Medical Xpress</u>. (March 23, 2017).
- "Want to feel happy? Go on a spiritual retreat: Just 7 days away changes feel-good chemical systems in the brain." <u>The Daily Mail</u> (UK). (March 23, 2017).
- "Religious retreats can change the chemicals in your brain, discover scientists." <u>MSN</u> <u>Lifestyle Online.</u> (March 23, 2017).
- "Can a spiritual retreat actually change your brain chemistry?" <u>Well and Good.</u> (March 26, 2017).

"When Neurons Meet Prayer." UC Observer Online. (March, 2017).

"Does the Afterlife Exist?" Inverse Mind and Body. (April 10, 2017).

"Give Your Brain a Rest." Prevention Magazine Newsletter. (April 19, 2017).

- "What Makes A Genius." National Geographic Magazine Online. (April 24, 2017).
- "Genius." National Geographic Magazine. (May, 2017).
- "New neuroscience research helps explain our growing attraction to spiritual retreats." <u>Washington Post Online</u>. (May 18, 2017).
- "What's the Connection Between Stress and Risk of MS Relapses?" <u>US News and World</u> <u>Report</u>. (May 22, 2017).
- "Awesome Awe." The New Scientist. (July 29, 2017).
- "Mind Over Matter: Trying to Lose My Religion." <u>Discover Magazine</u>. (September, 2017).
- "The Case for 'Thoughts and Prayers'—Even If You Don't Believe in God." <u>The Atlantic</u> <u>Online</u>. (October 6, 2017).
- "The health benefits of creating an at-home spiritual retreat." <u>The Sydney Morning</u> <u>Herald</u>. (October 15, 2017).
- "REVEALED: The emojis that could help you find love (and the ones to avoid)." <u>London</u> <u>Express</u>. (October 18, 2017).
- "Our "Little Brain" Plays a Big Role in Coping with Distress." <u>Psychology Today</u> <u>Online</u>. (October 28, 2017).
- "Cultivating an attitude of gratitude." <u>Salt Lake Tribune</u>. (November 1, 2017).
- "Religious Experience" <u>Stanford Encyclopedia of Philosophy Online</u>. (December 13, 2017)
- "Words Can Change Your Brain". PsychCentral. (January 28, 2018).
- "Interview". <u>Buddha at the Gas Pump Blog</u>. (April 1, 2018).
- "If Neurotheology is the Answer, What is the Question?" <u>Institute for the Scientific Study</u> of Religion Blog. (April 10, 2018).
- "Did you know that an Ignatian retreat can change your brain?" <u>Aleteia</u>. (April 17, 2018).
- "Here's What Happens To Your Child's Brain When They Hear "No". <u>Romper</u>. (April 20, 2018).

- "Want To Succeed In Your Job? Say 'No' To Your Boss." <u>San Francisco Chronicle</u>. (May 17, 2018).
- "The Power of Awe." Men's Health Magazine. (June, 2018).
- "What Religion Does To Your Brain." Medical News Today. (July 20, 2018).
- "Mysticism" Stanford Encyclopedia of Philosophy Online. (July 31, 2018)
- "Your Brain: The Art, Magic, and Science of What Makes You You." <u>It's All In Your</u> <u>Head, Special Edition Monograph. (Fall, 2018).</u>
- "הנוירולוגיה של האמונה הדתית (The Neurology of Religious Faith)" <u>Epoch Times Magazine</u>. (November, 2018).
- "Does Losing Your Faith Affect the Health of Your Brain?" <u>Men's Health Magazine</u>. (March, 2019).
- "Why Passover Is So Good for the Jewish Brain." Jewish Journal Online. (April 16, 2019).
- "How Religious Belief Can Affect Health." <u>Next Avenue Online Website</u>. (June 4, 2019).
- "Medical study proves validity of speaking in tongues." <u>The Christian Post</u>. (August 2, 2019).
- "5 Unusual Techniques to Build Trust and Resolve Conflict, According to Science." <u>Inc.</u> <u>Online Website</u>. (August 25, 2019).
- "Kind Regards: How the Words You Choose Make a Difference." <u>Positive News</u> <u>Website.</u> (September 30, 2019).
- "Does Prayer Affect Health?" Church Times Website. (October 4, 2019).
- "Your Emotions". National Geographic Bookazine. (January, 2020).
- "Every skier is an artist: Creativity, stoke and brain network dynamics". <u>Freeskier.com</u>. (January 21, 2020).
- "Humanity's collective history revealed through religious rituals and practices." <u>Phys.Org</u>. (January 28, 2020).
- "Vibratory and Auditory Stimulation Improves Sleep in Patients with Insomnia". <u>Newswise</u>. (February 8, 2020).

- "Vibratory and auditory stimulation improves the amount, quality of sleep in insomnia patients". <u>Medical Science News</u>. (February 9, 2020).
- "Naturally occurring molecule could improve brain metabolism in patients with MS". <u>News Medical Life Sciences</u>. (February 26, 2020).
- "Antioxidant precursor molecule could improve brain function in patients with multiple sclerosis". <u>Newswise</u>. (February 26, 2020).
- "Natural molecule NAC may help improve MS brain function, Study reports". <u>Multiple</u> <u>Sclerosis News Today</u>. (March 4, 2020).
- "Is religion good or bad for you?" Sudbury Star, Ontario. (March 15, 2020).
- "Can God and Medicine Work Together?" <u>Time Magazine Special Issue on Alternative</u> <u>Medicine</u>. (March, 2020).
- "The Power of Words in Uncertain Times". <u>Thrive Online</u>. (April 11, 2020).
- "Building Inner Strength". Daily Pioneer India. (May 3, 2020).
- "Why Americans Are Praying During The Coronavirus Pandemic". <u>Huffington Post</u> <u>Video Interview</u>. (May 20, 2020).
- "Churchgoers aren't able to lift every voice and sing during the pandemic here's why that matters". <u>The Telegraph: Alton, IL</u>. (June 12, 2020).
- "Churchgoers Aren't Able to Sing During the Pandemic Here's Why That Matters". <u>National Interest Online</u>. (June 15, 2020).
- "Anger Management for an Angry Time". Wall Street Journal. (June 30, 2020).
- "8 Health Benefits of Going to Church". NG.Opera News Online. (July, 2020).
- "The Power of Our Words". The Jewish Press. (July 9, 2020).
- "Churchgoers aren't able to lift every voice and sing." <u>Miami Times Online.</u> (July 15, 2020).
- "Pourquoi On Croit En Dieu". Article in Science and Vie (France). (August, 2020).
- "5 Books on Understanding the Human Brain". <u>Christianity Today Online.</u> (August 17, 2020).

- "The Power Of Labels: How Shifting Our Language Can Maximize Resilience And Lower Stress". <u>Forbes Online</u>. (September 24, 2020).
- "Quotes for Every Occasion: Life, Love, Inspiration and More". <u>The Healthy</u>. (November 11, 2020).
- "See Reasons Why You Should Always Smile". <u>NG.Opera News Online</u>. (January, 2021).

"Neurotheology: Science Meets Religion". Science of Mind Magazine. (February, 2021).

- "Staying Sane In A World Gone Mad". Canada Free Press Online. (March 21, 2021).
- "The Corner of Courage: Women With Words". <u>Trinidad and Tobago Newsday</u>. (March 24, 2021).
- "When Black people vibrate higher, we can save the world". <u>RollingOut Website</u>. (April 3, 2021).
- "An L.A. faith group believes prayer can help COVID patients, despite scientific skeptics." Los Angeles Times. (April 10, 2021).
- "The Rhythms of Ramadan". Deseret News. (April 11, 2021).
- "Does Faith Serve a Purpose After Brain Injury?" <u>Psychology Today Online</u>. (April 28, 2021).
- "Watch Your Words." The Detroit Jewish News. (May 5, 2021).
- "Mind and God: The New Science of Neurotheology." <u>Big Think Website</u>. (May 6, 2021).
- "The Word of the Day Is: Words." After Market News Website. (May 21, 2021).
- "The Common Sense Way: A New Way To Think About Leading and Organizing." <u>Marine Times Website</u>. (June 13, 2021).
- "This Is Your Brain on Enlightenment". <u>Discover Magazine Online</u>. (July 1, 2021)
- "Brain Circuit for Spirituality Identified by Researchers". <u>Detroit Free Press</u>. (July 8, 2021).
- "These churches are done with buildings. Here's why." <u>Deseret News Online</u>. (July 18, 2021).

"How an intense spiritual retreat might change your brain." <u>Psyche Online</u>. (August 11, 2021).

"Can Heaven Wait?" <u>Washington Times</u>. (September 8, 2021).

- "Another birthday is another opportunity to count the blessings of getting older, columnist says." <u>The Oklahoman Online</u>. (October 30, 2021).
- "Swaddled in Love: Virginia hospitals adopt program to promote healthy relationships." <u>Virginia Living</u>. (November 3, 2021).
- "Orgasmic Meditation alters brain function." <u>NeuroscienceNews.com</u>. (November 11, 2021).
- "Brain changes during a unique spiritual practice called orgasmic meditation." <u>News</u> <u>Wise</u>. (November 11, 2021).
- "Study shows that orgasmic meditation produces a distinctive pattern of brain function." <u>The Medical Progress</u>. (November 12, 2021).
- "Brain changes during a unique spiritual practice called orgasmic meditation." <u>EurekAlert</u>. (November 12, 2021).
- "Orgasmic meditation, a unique spiritual practice, produces distinctive brain function pattern: Study". <u>Hindustan Times Online</u>. (November 13, 2021).
- "Study finds brain changes during unique spiritual practice." <u>Big News Network</u>. (November 14, 2021).
- "Kierkegaard meets Aristotle: An Unlikely Yinyang." <u>Patheos Online</u>. (November 28, 2021).
- "Orgasmic Meditation is a thing. Jefferson researchers are studying what it does to your brain." <u>The Philadelphia Inquirer</u>. (November 29, 2021).
- "This holiday season, give yourself the grace to grieve." <u>Deseret News</u>. (December 6, 2021).
- "Orgasmic Meditation is a thing. Jefferson researchers are studying what it does to your brain." <u>Medical Xpress</u>. (December 7, 2021).
- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>Lexington Herald Leader</u>. (December 7, 2021).
- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>Sun Herald</u>. (December 7, 2021).

- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>Independent Record</u>. (December 12, 2021).
- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>Northwest Indiana Times</u>. (December 12, 2021).
- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>Billings Gazette</u>. (December 12, 2021).
- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>St.</u> <u>Louis Post-Dispatch</u>. (December 12, 2021).
- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>The Buffalo News</u>. (December 12, 2021).
- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>Lincoln Journal Star</u>. (December 12, 2021).
- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>Daily Journal</u>. (December 12, 2021).
- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>The Southern Illinoisan</u>. (December 12, 2021).
- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>The Bismarck Tribune</u>. (December 12, 2021).
- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>Arizona Daily Star</u>. (December 12, 2021).
- "Orgasmic meditation is a thing. Researchers are studying what it does to your brain". <u>Frederick News-Post</u>. (December 21, 2021).
- "The science behind giving back." Health Nexus. Jefferson Health. (December 20, 2021).
- "Our Most Read Stories of 2021," Yahoo Life/Yoga Journal. (December 22, 2021).
- "Praying and Meditating on Scripture Can Improve Your Health." <u>United Christian</u> <u>Broadcasters Online</u>. (February 9, 2022).
- "Speaking in Tongues Boosts the Immune System and Improves Sleep." <u>Modern Ghana</u> <u>Online</u>. (March 8, 2022).
- "When are we really dead? A new study sheds light." <u>Medical News Today</u>. (March 8, 2022).

- "When are we really dead? A new study sheds light." <u>Nigerian Tribune</u>. (March 12, 2022).
- "Seven minutes of worship every day changes brain." Graphic Online. (April 5, 2022).
- "Highly creative people have 'unique brain connectivity,' study shows." <u>Medical News</u> <u>Today</u>. (April 15, 2022).
- "What if meditation gave us a renewed sense of being alive, rather than just a feeling of calm?" <u>EurekAlert.</u> (July 15, 2022).
- "Spirituality is good for your physical and mental well-being: Research." <u>GG2.net</u> [Garavi Gujarat]. (July 18, 2022).
- "The Surprising Benefits of Yawning". Psychology Today Online. (August 2, 2022).
- "Why Do Russians Still Believe Putin's Lies? Kyiv Post Online. (August 13, 2022).
- "Interview: How Religion, Nationalism, Dominate Minds in Ukraine War." <u>Kyiv Post</u> <u>Online</u>. (August 13, 2022).
- "Does Prayer Change Your Brain?" Atlanta Jewish Times. (September 29, 2022).
- "Private-Sector Space Experiments Could Add To Mankind's Knowledge Bank. Keep An Open Mind" <u>Forbes Online</u>. (October 21, 2022).
- "Varieties of Rich Spiritual Experiences." Science of Mind. (October 22, 2022).
- "The Varieties of Spiritual Experience' aims to update a classic." <u>Washington Post</u>. (November 10, 2022).
- "Negativity Might Harm Your Brain More Than You Think, 3 Tips to Help." <u>Epoch</u> <u>Times Online.</u> (November 12, 2022).
- "This Is What Religion Looks Like in Our Brains". <u>Twisted Sifter Website</u>. (November 15, 2022).
- "The Varieties of Spiritual Experience review: A meticulous guide. Book Review." <u>The</u> <u>New Scientist</u>. (November 16, 2022).
- "Peak Spiritual Experiences, Psychedelics, & Consciousness Research". <u>Patheos Online</u>. (December 5, 2022).

### **Radio and Podcast Interviews:**

- "Interview". London Talk Radio on Neuroscience and Religious Experience (May, 1998).
- "Meditation". The Infinite Mind, Radio Program (June 22, 1998).
- "Does God Exist?". To The Best of Our Knowledge, Radio Program (June 22, 1998).
- "Religion and the Brain". The Osgood File Radio Program (November 27, 1998).
- "On the Line". WNYC Radio, New York, NY (February 2, 2001).
- "Reality Check". FM4 Austrian Broadcasting Corporation, Austria (April 6, 2001).
- "Introspect". KMPS AM, Seattle, WA (April 10, 2001).
- "11:00 AM News". KOMO TV, Seattle, WA (April 10, 2001).
- "Spirituality Interwoven with Biology". Laura Lee Radio Show, Seattle, WA (April 10, 2001).
- "Imagination Theatre". KNWX AM, Seattle, WA (April 10, 2001).
- "Talk of the City". KPCC FM, Los Angeles, CA (April 11, 2001).
- "Something You Should Know". Strand Broadcast Services, Los Angeles, CA (April 11, 2001).
- "Forum". KQED FM, San Francisco, CA (April 12, 2001).
- "Tech Nation". NPR, San Francisco, CA (April 12, 2001).
- "Pete Wilson Show". KGO AM, San Francisco, CA (April 12, 2001).
- "Morning Edition". KVON AM, Napa, CA (April 13, 2001).
- "News". KUNM FM, Albuquerque, NM (April 21, 2001).
- "Voice of Santa Barbara". KEYT AM, Santa Barbara, CA (April 23, 2001).
- "Conversations of the Quantum Age". WMCR AM, San Francisco, CA (April 23, 2001).
- "Dark in the Morning". WCCO AM, Minneapolis, MN (April 26, 2001).

"Spirit and the Brain". Sound Medicine, Syndicated Radio Talk Show (May 26, 2001).

"Fresh Air". National Public Radio (June 20, 2001).

"The Life Long Journey". Syndicated Radio Program (December 7, 2001).

"Kresta in the Afternoon". Syndicated Radio Program (December 21, 2001).

- "Been There, Done That". WHYY National Public Radio Program (January 12, 2002).
- "George Kilpatrick Show". WSYR Radio, Pittsburgh, PA (April 18, 2002).
- "Daybreak USA". National Syndicated Radio Program, USA Radio Network, (April 18, 2002).
- "The Brad Davis Show". WDRC-AM Radio Program, Hartford, CT (April 18, 2002).
- "Morning Show". WGBU-AM Radio Program, Grand Rapids, MI (April 18, 2002).
- "Talk America Radio Network". National Syndicated Radio Program (April 18, 2002).
- "Jan Mickelson Show". WHO-AM Radio Program, Des Moines, IA (April 18, 2002).

"Bob Dutko Show". WMUZ-FM Radio Program, Detroit, MI (April 18, 2002).

- "Newscast". Bloomberg National Syndicated Radio Program (April 18, 2002).
- "Common Ground". WZLX-FM Radio, Boston, MA (April 21, 2002).
- "The Tom Pope Show". Powernomics National Syndicated Radio Program, Washington, DC (April 24, 2002).
- "American Breakfast". Langer Broadcasting Network National Syndicated Radio Program, (April 25, 2002).
- "Daybreak". KLIK-AM Radio, Jefferson City, MO (April 26, 2002).
- "After Midnight". KOA-AM Radio Program, Denver, CO (April 30, 2002).
- "Arizona Sunrise". KXAM-AM Radio Program, Phoenix, AZ (April 30, 2002).
- "Conversations with Peter Solomon". WIP-AM Radio Program, Philadelphia, PA (May 21, 2002).

"After Midnight". KOA-AM Radio Program, Denver, CO (April 30, 2002).

"The Truth of It". WHAT-AM Radio Program, Philadelphia, PA (June 14, 2002).

"Strange Universe". Nationally Syndicated Radio Program, (July 14, 2002).

"The Brain at Prayer". Radio Nederlands (April 28, 2003).

- "Talk to America". Voice of America Television Program (June 5, 2003).
- "Voices in the Family". NPR Radio Program (November 10, 2003).
- "Daybreak USA". USA Network National Syndicated Radio Program (September 27, 2006).
- "Louie Free Show". National Syndicated Radio Program (September 27, 2006).
- "KYMO Morning Show". KYMO-AM/FM East Prairie MO (September 27, 2006).
- "Live, with Berkley Groks". National Syndicated Radio Program (September 27, 2006).
- "Live, with Cable Talk". Cable Radio Network CRN National Syndicated Radio Program (September 28, 2006).
- "Kathryn Zox Show". WSDE-AM Albany NY Radio Program (September 28, 2006).
- "Carl Wiglesworth Show". KAHL-AM San Antonio, TX (September 28, 2006).
- "Its About Life". XM Radio/WOL-AM/WOLB-FM. National Syndicated Radio Program (September 28, 2006).
- "Morning Report". KYW-AM News Radio Program (September 29, 2006).
- "The Lifestyle Show". National Syndicated Radio Program (September 29, 2006).
- "Common Ground". WZLX-FM Boston MA. Radio Program (October 6, 2006).
- "Tron in the Morning". WCMN-AM Colorado Springs, CO. Radio Program (October 13, 2006).
- "Jon and Mary in the Morning". WFON-FM Milwaukee WI. Radio Program (October 19, 2006).
- "New Talk". KBUL-AM Billings MT. Radio Program (October 19, 2006).

<sup>&</sup>quot;Talk of the Town". WICC-AM Hartford CT. Radio Program (October 19, 2006).

- "Conversations with Peter Solomon". WIP-AM Philadelphia. Radio Program (November 26, 2006)
- "Washington Post Radio". Washington Post Radio Program (November 26, 2006)

- "Andrea Shea King Show". Blog Talk Radio Program (November 7, 2007).
- "Coast to Coast". Syndicated Radio Program (November 9, 2007)
- "WHAM Morning Show". Rochester Radio Program (November 12, 2007).
- "Aware Show". Syndicated Radio Program. (November 15, 2007).
- "The Michelangelo Signoreli Show". Sirius Satellite Radio (November 29, 2007)
- "Interconnect". Cincinnati NPR Radio Program (December 10, 2007).
- "CRN Digital Talk Radio". Syndicated Radio Program (December 12, 2007).
- "Fully Alive". Catholic XM Radio Program (March 19, 2009).
- "Charlie Brennan Show/ Justice for All". KMOX Radio St. Louis, (April 9, 2009).
- "The Corner". WPRC Hartford, Radio Program (April 17, 2009).
- "The AM Show". CRN Syndicated Radio Program (April 14, 2009).
- "The John Batchelor Show". ABC Radio Program (April 26, 2009)
- "Relevant Radio". Madison Wisconsin Radio Program (April 27, 2009)
- "Neurotheology." Talk of the Nation NPR Radio Program (December 15, 2010).
- "Coast to Coast". Nationally Syndicated Radio Program (March 12, 2011).
- "Neuroscientific Evaluation of Mediums' Brains". Kardec Radio (International Radio Program). November 24, 2012.
- "Study Shows Positive Health Effects for Spa-Goers". SPAR with Jamila Bey (DC and NYC AM radio show). (November 26, 2012).

"Interview". KYW News Radio. Philadelphia, PA. (December 1, 2012).

"Interview". Dr. Katherine Albrecht Show. GCN Radio Network. (January 8, 2013).

<sup>&</sup>quot;Morning Edition". KVON Radio Program (October 30, 2007).

"Interview". Provocative Enlightenment Syndicated Radio Program. (March 11, 2015).

- "Interview". Morning Show with Bill & Joel. Radio Program on WDUN-FM. Atlanta, GA. (March 17, 2016).
- "Interview". Morning Show. Radio Program on WGVU-FM. Grand Rapids, MI. (March 17, 2016).
- "Interview". Fort Mill Morning. Radio Program on WYTX-FM. Charlotte, NC. (March 17, 2016).
- "Interview". Big Radio News. Radio Program on WBEL-AM. Madison, WI. (March 17, 2016).
- "Interview". Mornings with Warren Lawrence. Radio Program on WKNY-AM. Kingston, NY. (March 17, 2016).
- "Interview". The Business of Wisdom. Radio Program on WNEW-AM/WCBQ-AM/WHNC-AM. Washington, DC/Raleigh, NC. (March 17, 2016).
- "Interview". The Sue Henry Show. Radio Program on WILK-AM. Wilkes-Barre/Scranton, PA. (March 17, 2016).
- "Interview". Kacey on the Radio. Radio Program on WHUD-FM. New York, NY. (March 17, 2016).
- "Interview". Conversations with Jeff Schechtman. Radio Program on Napa Broadcasting. Napa, CA. (March 17, 2016).
- "Interview". Cool Science Radio. Radio Program on KCPW-FM. Park City, UT. (March 17, 2016).
- "Interview". The Steven Maggi Show. Radio Program on Free America Radio. Syndicated. (March 17, 2016).
- "Interview". Kentucky Focus. Radio Program on Kentucky News Network. (March 17, 2016).
- "Interview". Book Talk. Radio Program on WTMY-AM. Tampa, FL (March 17, 2016).
- "Interview". Marilu Henner Show. Nationally Syndicated Radio Program. (March 17, 2016).
- "Interview". The Steve Gruber Show on WJIM. Lansing, MI. (April 15, 2016).

- "Interview". WJCW-AM Tri-Cities Talk Radio. Johnson, TN. (April 15, 2016).
- "Interview". The Voice 1550 on WTHB-AM. Augusta, NC. (April 15, 2016).
- "Interview". The Big AM 1380 on WBEL-AM. Madison, WI. (April 15, 2016).
- "Interview". Metro Networks Nationally Syndicated Radio Program. (April 15, 2016).
- "Interview". Ocean 98 on WOCM. Ocean City, MD. (April 15, 2016).
- "Interview". The Valder Beebe Show. Dallas, TX. (April 15, 2016).
- "Interview". John and Heidi Show. Nationally Syndicated Radio Program. (April 15, 2016).
- "Interview". Provocative Enlightenment Radio. Nationally Syndicated Radio Program. (September 15, 2016).
- "How Spirituality Changes Your Brain". Inspire Nation Show. National Radio Program. (January 28, 2016).
- "Interview". True2Soul podcast. (January 16, 2018).
- "Interview". The Intersection of Success & Spirituality podcast. (January 23, 2018).
- "Interview". Rogue Health podcast. (April 4, 2018).
- "Interview". StoryHinge podcast. (August 16, 2018).
- "Interview". The Rev and the Rabbi. Nationally Syndicated Radio Program. (September 15, 2019).
- "Interview". Becoming SuperHuman podcast. (October 4, 2018).
- "Interview". Sources Mouth podcast. (January 29, 2019).
- "Interview". Doctors Who Create podcast. (February 4, 2019).
- "Interview". Managing Leadership Anxiety podcast. (April 1, 2019).
- "Interview". Tributaries Radio. Nationally Syndicated Radio Program. (December 15, 2019).

"Meaning and Purpose." Brain Health Matters Podcast episode #6. (April 7, 2020).

"Interview". Metaphysical Milkshake podcast. (April 10, 2020).

- "How White Light Moments Change Your Brain". With Friends Like These Podcast. (June 19, 2020).
- "Are You Enlightened?" Dr. Amy Robbins Podcast. (July 3, 2020).
- "Interview". Dr. Drew podcast. (July 15, 2020).
- "Interview". InspireNation Podcast (July 28, 2020)
- "Flow States & Unlocking Permanent Enlightenment". Flow States Collaborative Podcast. (July 24, 2020).
- "Measuring Brain Changes During Mystical Experiences." Guy Lawrence Podcast. (October 2020).
- "Demystifying the Human Brain: SPECT Scans, Neurotheology, and the Aging Brain." Neuroscience Meets Social and Emotional Learning Podcast, episode #88. (October 2020).
- "Compassionate Communication in the Classroom with Dr. Andrew Newberg". TISC Conversations Podcast. (January 23, 2021).
- "Neuro-Theology with Dr. Andrew Newberg". JCast Podcast with Rabbi Finman. (April 2, 2021).
- "Interview". Listening Through Science Podcast. Paideia Program, University of Pennsylvania. (April 13, 2021).
- "Individualized Brain Health Strategies Essential for All Ages with Dr. Andrew Newberg Marcus Institute of Integrative Health". Empowered Patient Podcast. (July 9, 2021).
- "How Improving Brain Health Can Change The Way You Look, Feel, and Thrive with Dr Andrew Newberg and Dr Daniel Monti". The Brain Warrior's Way Podcast with Dr. Daniel Amen. (July 9, 2021).
- "How to Maintain a Healthy Brain". Radio Times NPR Nationally Syndicated Radio Program. (July 13, 2021).
- "Brain Weaver". Kardec Radio (International Radio Program). (July 24, 2021).
- "Brain Weaver". Kardec Radio (International Radio Program). (July 24, 2021).
- "Neuroscientist Dr. Andrew Newberg from Thomas Jefferson University". VatorNews Podcast. (August 13, 2021).

- "How Improving Brain Health Can Change The Way You Look, Feel, and Thrive with Dr Andrew Newberg and Dr Daniel Monti". The Brain Warrior's Way Podcast with Dr. Daniel Amen. (September 19, 2021).
- "Brain Weaving: An Interview With Dr. Andrew Newberg". The Mindful Minute Podcast - Player FM (October 31, 2021).
- "Science Is Discovering That Mystical Experiences Are Real." Mind Matters Podcast. (December 17, 2021).
- "Why We Believe What We Believe". Danielle Lin Podcast. (July 15, 2022).
- "Book Review". Rugby Coach Weekly. Roundup Rodeo Ep91: Reviewing the best content. (July 25, 2022).
- "Infinite Doubt with Dr. Andrew Newberg." Down the Wormhole podcast. (November 2, 2022).
- "The Intersection of Science and Spirituality." Wisdom Talk Radio. (November 9, 2022).

"Interview." Dr. Drew Podcast. (December 1, 2022).

### **Television Interviews:**

- "ABC World News Tonight" Interview on Neuroscience and Religion (February 23, 1998)
- "Healthwatch". Fox 10 O'Clock News. Philadelphia, PA (July 28, 1999).
- "City Talk". PAX Television. Philadelphia, PA (December 18, 1999).
- "Good Morning America". ABC. New York, NY (May 1, 2001).
- "John McGlaughlin One on One". Syndicated Public Television Program (July 6, 2001).
- "Springboard". PBS National Television Program (September, 2001).
- "Testing God". BBC TV Channel 4 (September 16, 2001).
- "Religion and Ethics Weekly". PBS Syndicated Television Program (November, 2001).
- "Iyanla". Syndicated National Television Program (December, 2001).

- "Nightline: Science and spirituality, the ultimate mystery: Scientific studies hope to find the root of spiritual experiences." ABC Television (January 2, 2002).
- "Philly Live". WYBE Public Television Program, Philadelphia, PA (April 1, 2002).
- "Brain Research of Religious and Spiritual Experiences". National Press Club Forum on Brain Research, National Press Club Television. Washington, DC (October 29, 2002).

"Horizon: God on the Brain". BBC Television Program (April 17, 2003).

"CNN Sunday Morning". CNN (November 3, 2003).

"The Morning Show". CN8 Cable News Station, Philadelphia, PA (June 8, 2005).

"Finding Heaven: Barbara Walters Television Special". ABC Television Program (December, 2005).

"Scientists Bridging the Spirituality Gap". MSNBC (January 27, 2007).

"Nightline: Speaking in Tongues." ABC Television (March 22, 2007).

"Proof of the Brain's Link with Religion". Action News on 6ABC TV. (April 2, 2007).

"What it Means to Be a Christian". Anderson Cooper 360. CNN. (April 6, 2007).

"20/20". ABC National TV Program. (May 11, 2007).

"Religion and Ethics Weekly". PBS Syndicated Television Program (July, 2009).

"Campbell Brown". CNN News Program. (April 14, 2010).

"Yawning." NBC Channel 10 News, Philadelphia. (October 26, 2010).

"Miracle Detectives." OWN Channel Television Program (January 26, 2011).

"The Miracle Mysteries". Nightline Primetime: Beyond Belief (July 13, 2011).

"The Other Side". Nightline Primetime: Beyond Belief (August 3, 2011).

"Anderson". CBS Nationally Syndicated TV Program (February 29, 2012).

"Through the Wormhole with Morgan Freeman". Science Channel Television Program. (August 10, 2012).

"Apocalypse When?" Interviewed for Television Program on Vision Television Channel Canada. (November-December, 2012). "Art Fennel Reports". Comcast Network Channel. (November 18, 2012).

- "Guardian Angel". Interviewed for Supernatural Investigator, Canadian Television Program. (January 31, 2013).
- "NFL Concussion Lawsuit". Channel 3 Eyewitness News Report. (August 29, 2013).
- "Interview". Dr. Oz Show. NBC Nationally Syndicated Television Program. (September 8, 2014).
- "Secrets: Spear of Destiny". Smithsonian Channel Television Program. (November 10, 2014).
- "What Happens To Your Brain When You Pray?". NBC Nightly News with Brian Williams. (December 23, 2014).
- "Interview". Nasa's Unexplained Files. Season 2 Episode 8 Revenge of the Fireflies. Science Channel Program. (May 27, 2015).
- "The God Brain". Brain Games. National Geographic Channel Television Program. (February 22, 2016).
- "The Story of God: with Morgan Freeman". Nationally Syndicated Television Program for National Geographic Channel. (April 17, 2016).
- "Explorer: God Is My Drug". Nationally Syndicated Television Program for National Geographic Channel. (December 22, 2016).
- "StarTalk". Nationally Syndicated Television Program with Neil deGrasse Tyson for National Geographic Channel. (January 28, 2018).
- "Neurotheology". WEDU PBS Television Quest Series. (June 18, 2018).
- "In Search Of". National Geographic Television Series. (July 27, 2018).
- "First Civilizations: Religion". PBS Nationally Syndicated Television Program. (May 1, 2018).
- "StarTalk". Nationally Syndicated Television Program with Neil deGrasse Tyson for National Geographic Channel. (May 3, 2019).
- "Interview". Dr. Oz Show. Nationally Syndicated Television Program. (May17, 2019).
- "Interview". Good Morning America. ABC Nationally Syndicated Television Program. (May 17, 2019).

- "Interview". Ancient Aliens. The History Channel Television Program. (October 10, 2019).
- "Beautiful Human". Korean Educational Broadcasting System Documentary. (July 15, 2020).
- "Interview on Internet Gaming". Good Morning America. ABC Nationally Syndicated Television Program. (December 11, 2022).

# **Movies and Exhibitions:**

- "What the Bleep Do We Know?" Interviewed in Nationally Distributed Movie Starring Marlee Matlin (September, 2004).
- "What the Bleep!?: Down the Rabbit Hole" Interviewed in Nationally Distributed Movie Sequel Starring Marlee Matlin (March, 2006).
- "All Faiths Beautiful" American Visionary Art Museum. Baltimore, MD. Exhibit featuring brain scans. (Opened October 5, 2007).
- "Religulous" Interviewed in Nationally Distributed Movie Starring Bill Maher (October, 2008).
- "The Religious Mind: The Art of Science, Religion, and Healing". Cabrini College, Grace and Joseph Gorevin Fine Arts Gallery. Rosemont, PA. Exhibit featuring brain scans. (Opened January 14, 2010).
- "The Nature of Existence" Interviewed in Nationally Distributed Documentary Movie (March, 2010).
- "DMT: The Spirit Molecule" Interviewed in Nationally Distributed Documentary Movie (September, 2010).
- "The End of God? A Horizon Guide to Science and Religion". Interviewed in Nationally Distributed Documentary Movie (September, 2010).
- "Religious Energy. About Man and God". Deutsche Hygiene Museum. Dresden, Germany. Exhibit featuring brain scans (October 2010-June 2011).
- "Who Knows One: Jewish Perspectives on God". Interviewed in a Documentary DVD produced by Infomedia Judaica. (December, 2012)

- "The Brain" at the Franklin Institute. Philadelphia, PA. Permanent exhibit featuring brain scans. (Opened June 17, 2014).
- "AWAKE: The Life of Yogananda". Interviewed in Nationally Distributed Movie on the life of Paramahansa Yogananda (October, 2014).
- "Mantra: Sounds into Silence". Interviewed in Nationally Distributed Movie on meditation. (March, 2018).

"Stressed". Interviewed in Documentary Movie on Stress (May, 2018).