

# Curriculum Vitae

James L. Olds Ph.D. January 6, 2017

## Contact Information:

### U.S. Government:

Room 605, National Science Foundation 4201 Wilson Blvd

Arlington, VA. 22230 USA

Voice: +1 703 292-8254

Email: jolds@nsf.gov

### Personal:

3810 N. Upland St.

Arlington VA. 22207 USA

Voice: +1 703 835-1658

Email: olds.james@gmail.com

## Education

Ph.D. in Neurosciences, **The University of Michigan, Ann Arbor**, 1987,

Dissertation Advisor: Bernard W. Agranoff

B.A. in Chemistry, **Amherst College, Amherst MA**. 1978

## Professional Experience

Assistant Director, **National Science Foundation** (Biological Sciences)  
2014-present

Serves as head of the Biological Sciences Directorate at NSF. The annual budget is approximately \$750 million per year and supports research into the life sciences at universities and colleges throughout the United States. This position reports directly to the Director of the National Science Foundation.

Director and Chief Academic Unit Officer, Krasnow Institute for Advanced Study, **George Mason University** 1998-2014

This was a decanal position at George Mason. The academic unit is internationally recognized. Its intellectual founders included the likes of Murray Gell-Mann, Herbert Simon and Patricia Goldman-Rakic. Institutionally Krasnow is the offspring of the well-known Santa Fe Institute.

The Shelley Krasnow University Professorship of Molecular Neuroscience, Department of Molecular Neuroscience, **George Mason University**, 2000-Present

Tenured, Chaired University Professor, currently serving under an IPA appointment at the National Science Foundation.

Chair, Molecular Neuroscience Department, Krasnow Institute for Advanced Study, **George Mason University** 2007-2014

The Department of Molecular Neuroscience is one of the two academic departments housed within the Krasnow Institute and has seven tenure-line faculty members. In role as Institute Director, also serve concurrently as the founding departmental chair. Responsibilities include faculty evaluations and raises, representing the faculty to the central administration and concurrently serving as the central administration's representative to the faculty.

Editor-in-Chief, **The Biological Bulletin**, MBL, Woods Hole, 2005-2016

One of the oldest peer-reviewed scientific journals in the field of biology, published since 1897 by the MBL in Woods Hole. Indexed by Pub-Med and on-line at J-Stor and HighWire Press.

### Executive Director, **American Association of Anatomists**, 1995-1998

Chief Executive Officer and public spokesperson for the American Association of Anatomists. This professional scientific society, with a budget of approximately \$1million/year was founded in 1888 and had a membership of approximately 2,500 biomedical researchers during my tenure. Among its membership have been seven Nobel Laureates and over 80 members of the National Academy of Sciences. The Association is one of the 12 constituent societies that make up FASEB, the Federation of American Societies for Experimental Biology. This position involved not only leading a moderately-sized nonprofit organization, but also the organization and management of a multimillion dollar large-scale scientific meeting (Experimental Biology or EB), drafting of congressional testimony and interactions with the White House.

### Senior Staff Fellow, Laboratory of Adaptive Systems, NINDS, **National Institutes of Health**, 1991-1995

Research was directed toward understanding the mechanisms that permit neurons and neuronal assemblies to store and recall memories. To this end computerized imaging techniques were developed that, with ever increasing spatial and temporal resolution, revealed images of neuronal ensembles as they interact to store and recall memories. The critical role of protein kinase C (PKC) in the molecular chain of events that lead to associative learning was exploited by using radioactive phorbol ester as a probe for membrane-associated PKC in animals that had undergone various behavioral paradigms designed to assess learning. Subsequently, fluorescent probes directed against PKC and phospholipase A 2 (PLA) were employed to study the analogous molecular events in brain slice and dissociated hippocampal pyramidal cells. The importance of second messenger transients in these subcellular events was visualized in real-time in sea urchin eggs using confocal microscopy. These experiments demonstrated a dynamically changing distribution of protein kinase C after fertilization that coincides with known calcium transients. An integral part of this research effort was the management and direction a research program within the Laboratory of Adaptive Systems geared towards developing an understanding of eukariotic second messenger signaling, with emphasis on learning and memory in neural systems. This program supported two postdoctoral fellows and eight graduate students over seven years.

Staff Fellow, Neural Systems Section, Laboratory of Molecular and Cellular Neurobiology, NINDS, **National Institutes of Health**, 1987-1991

Research directed towards elucidating the role of protein kinase C in mammalian learning and memory. Developed quantitative autoradiographic methods which were deployed in the learning context. These methods revealed for the first time, learning-specific changes in the distribution of a second messenger system within the mammalian hippocampus.

## Selected Foundation and Grant Support

US Air Force CENTEC, \$17K/year 2011-2012 5

EADS North America, \$330K 2012-2013

Beatrice Friedman Trust, \$500K 2011

Shelley Krasnow Endowment, \$7.3M, 1998-2002 as CEO of the Krasnow Institute for Advanced Study in its nonprofit status prior to merging with George Mason University in 2002. I successfully brought these dollars into George Mason as part of the merger.

USDOE, \$298K, 2003-2005

Science Advisory Group, \$50K, 2005-2006 Proteus Foundation, \$300K, 2003-2009

Office of Naval Research, \$13K, 2002-2003 Office of Naval Research, \$65K, 1999-2003

## Teaching Experience

Courses:

2012, 2013, 2014 Cellular, Neurophysiological and Pharmacological Neuroscience Undergraduate Core Course

2010 Function of the Hippocampus, Cross-listed Graduate Undergraduate

2009 Neuroscience Survival Skills, Graduate

2007 Introduction to Neuroscience undergraduate (one lecture; Fall semester)

2007, Neuroscience Methods, Graduate

2006, Neuroscience Seminar in Signal Transduction, Graduate

2003, Exploring Consciousness, honors undergraduate

2001, Molecular Biology of Learning and Memory, Graduate

1998, Principles of Brain Design, Graduate

1997, Neurophilosophy, Graduate, as an adjunct at George Mason University

1992, Review of Neuroscience for Neurosurgeons, MBL Woods Hole

1990, Society for Neuroscience, Short Course, Imaging, Mexico City

#### Postdoctoral advisees:

Giorgio Ascoli, Krasnow Institute for Advanced Study (currently Full Professor at George Mason University)

Bryan Devan, Krasnow Institute for Advanced Study and NIMH (currently, Towson State University)

#### Doctoral student advisees:

Donna L. McPhie, Georgetown University and NIH (currently Harvard University)

Jeffery L. Krichmar, George Mason University (currently University of California, Irvine)

Bruce Rasmussen, George Mason University

John L. Baker, George Mason University (Chair)

John Pierce, George Mason University

David Cooper, George Mason University (Chair) (deceased)

Michael Cloud, George Mason University (Chair)

Kerry Brown, George Mason University

Michele Ferante, George Mason University

Brian Corgiat, George Mason University

## Undergraduate honors students while at MBL Woods Hole:

Leslie Keith, Amherst College

John Connor, Swarthmore College

Lisa Cameron, Amherst College (currently Harvard University)

## Selected Awards, Appointed or Elected Positions

2016 White House Cancer Moon Shot Deputies Task Force

2015 National Library of Medicine Board of Regents

2014 White House NSTC Life Sciences Subcommittee, Co-Chair

2014 Foundation for Food and Agricultural Research Board of Trustees

2013 Chair, Search Committee, Vice President for Research and Economic Development, George Mason University

2013-2014 NSF SBE Directorate Advisory Committee 2012 NSF STC Full Proposal Panel Review

2012 Co-organizer Krasnow-Santa Fe Institute Short Course: Complexity Science and the Global Economic Crisis

2012-present, Cosmos Club Library Committee

2012-2014, External Advisory Board, Computer Sciences, Sandia National Laboratory

2012-2013, Advisory Board, Flow Genome Project

2011-2012 Chair, George Mason University Foundation Intellectual Property Committee

2011 NSF STC Pre-Proposal Panel Review

2010 NSF IGERT PreProposal Panel Eng/Bio-2

2010 Elected to the Philosophical Society of Washington

2009-2011 Board of Trustees, George Mason University Foundation

2009 NSF Science and Technology Center Pre-Proposal Panel Review

2008-2009 Lead George Mason Contact on Tripp Umbach Consulting Study to consider the feasibility of a George Mason medical school.

2008-2012 Marketing Committee, George Mason University

2008-2014 Chair, Cognitive Sciences External Advisory Board, Sandia National Laboratory

2007NSFInterdisciplinaryGraduateEducationandResearchTraining(IGERT) Review Panel

2007-2014 Chair, George Mason University Professors Nominations Committee

2006 Advisory Board, School of Public Policy Office of International Medical Policy, George Mason University

2006-2014 Science Advisory Board, The Center for Neurotechnology Studies

2006-2010 Science Advisory Board, The Great Apes Trust of Iowa

2006-2007 Treasurer, Americans for Medical Progress

2004-2006 Advisory Board, Biosciences Management Program, George Mason University School of Management

2004-2007 Executive Committee, Board of Directors, Americans for Medical Progress

2003-2004 Commonwealth of Virginia, Advisory Committee on Hard Sciences, Joint Commission on Technology and Science

2003 Cosmos Club, Washington D.C.

2002-2005 Society for Neuroscience, Public Information Committee

2002-Present (ex-officio) Presidents Council, George Mason University

2001-2002 Commonwealth of Virginia, Advisory Committee on Emerging Technologies Joint Commission on Technology and Science

2001-2004 Arlington County Commission on Aging

2000-present Reader, Folger Shakespeare Library, Washington D.C.

2000-2001 Commonwealth of Virginia Advisory Committee One Joint Commission on Technology and Science

2000-2002 Chair, George Mason University Institutional Animal Care and Use Committee

2000 Program Committee, American Association of Anatomists EB2001 9

1999 Ad Hoc Reviewer for NIH Study Section MDCN-4

1999 George Mason University Animal Subjects Review Board

1998-2004 Commonwealth of Virginia Alzheimers and Related Disorders Commission gubernatorial appointment under Governor Gilmore, reappointed 02 under Governor Warner

1998-1999 NSF KDI-LIS Grant Review Panel

1998 Neurobiology Theme Representative, American Association of Anatomists

1998 Public Affairs Committee, American Association of Anatomists

1997 Representative of the American Association of Anatomists to the FASEB Ethics in Science Subcommittee

1995 NINDS award for employees receiving patents

1994 - 1996 President, Potomac Chapter, Society for Neuroscience

1995 - 1996 Chair, Steering Committee NIH Integrated Neuroscience Special Interest Group

1994 - 1995 Advisory Committee, NIH Research Festival

1993 NIH Award of Merit "For demonstration that protein kinase C undergoes



changes in the mammalian hippocampus during memory formation.”

1992 Special Editorial Board The Biological Bulletin

1991-2002 Member, Computer Advisory Committee For Networks and Computing at the MBL

1991 Founded the Usenet news group: bionet.neurosciences

1991 Elected Member of the Corporation, Marine Biological Laboratory Woods Hole, MA

## Professional Societies

Philosophical Society of Washington D.C. Society for Neuroscience

Neuroethics Society

Cajal Club

Member of the Corporation, Marine Biological Laboratory, Woods Hole

## Patents

Charge Coupled Device based Quantitative Imaging Devices US Patent 5,301,671 (4-12-94).

Method and Apparatus for Producing an Image of a Substance Using a Radioactively Tagged Material (5-28-96) US patent 5,520,182.

## Scientific Publications

1. Alkon, D.L., Acosta-Urquidi, J., Olds, J., and Neary, J.T. Protein Kinase Injection Reduces Voltage- Dependent Potassium Currents, *Science*, 219:303- 305 (1983).
2. Gorenstein, C., Bundman, M.C., Lew, P.J., Olds, J.L. and Ribak, C.E. Dendritic Transport I: Colchicine Stimulates The Transport of Lysosomal Enzymes from Cell Bodies to Dendrite. *J. Neurosci.*, 5:2009-2017 (1985).

3. Olds, J.L., Frey, K.A., Ehrenkaufer, R.L. and Agranoff, B.W. A Sequential Double-Label Autoradiographic Method That Quantifies Altered Rates of Regional Glucose Metabolism. *Brain Res.*, 361:217-224 (1985).
4. Olds, J.L., Anderson, M.L., McPhie, D.L., Staten, L.D. and Alkon, D.L. Imaging of Memory-Specific Changes in the Distribution of Protein Kinase C in the Hippocampus. *Science*. 245:866-869 (1989).
5. Alkon, D.L., Olds, J.L., and Nelson, T. The Physical Reality of Memory. *Proceedings of the Takeda Symposium* (1989) pp. 229-240.
6. Alkon, D.L., Ikeno, H., Dworkin, J., McPhie, D.L., Olds, J.L., Lederhendler, I., Matzel, L. Shreurs, B., Kuzerian, A. and Collin, C. Contraction of Neuronal Branching Volume: An Anatomic Correlate of Pavlovian Conditioning. *Proc. Natl. Acad. Sci. USA* (1990) 87:1611-1614.
7. Olds, J.L., Golski, S., McPhie, D.L., Olton, D., Mishkin, M. and Alkon, D.L. Discrimination Learning Alters the Distribution of Protein Kinase C in the Hippocampus of Rats. *J. Neurosci.* (1990) 10:3707-3713.
8. Olds, J.L. and Alkon, D.L. A Role for Protein Kinase C in Associative Learning. *The New Biologist* (1991) 3:27-35.
9. Scharenberg, A., Olds, J.L., Shreurs, B., Craig, A.M. and Alkon, D.L. Protein Kinase C Redistribution Within CA3 Stratum Oriens During Acquisition of Nictitating Membrane Conditioning in the Rabbit. *Proc. Natl. Acad. Sci. USA*. (1991) 88:6637-6641.
10. Olds, J.L. and Alkon, D.L. (1990) Imaging Memory—Molecular Approaches to tracking the engram. *Bio. Chem. HS*. 371: 905.
11. Olton, D.S., Golski, S., Gorman, L.K., Olds, J.L., Alkon, D.L. and Mishkin, M. Behaviorally-Induced Changes in the Neural Activity of the Hippocampus. (1991), 16:193-220. *Brain Research Reviews*.

12. Lo Turco, J.J., Olds, J.L., Bank, B., and Alkon, D.L. (1992) Biophysical and Biochemical Records of Associative Memory in Rabbit CA1 Pyramidal Neurons and Hermisenda B Cells, Chapter 11, pp 231-251 in *Correlates of Classical Conditioning*, Lawrence Erlbaum Associates Pubs, Hillsdale N.J. Gormezano and Wasserman Eds.
13. Olds, J.L. and Sanchez-Andres, J.V. The Hippocampus Reconsidered: Gated Informational Transfer Allows Formation of Cognitive Maps. (1992) *Proceedings International Neural Networks Society '92*. Vol III:385-389.
14. McPhie, D.L., Matzel, L., Olds, J.L. and Alkon D.L. (1993) Learning-specific changes in the distribution of Protein Kinase C within the Type B Photoreceptor of *Hermisenda crassicornis*. *J. Neurochem.* 60:646-651.
15. Sanchez-Andres, J.V., Olds, J.L. and Alkon, D.L. (1993) Gated Informational Transfer within the Mammalian Hippocampus: A New Hypothesis *Behavioral Brain Research.* 54: 111-116.
16. Mangi, H., Etcheberrigarray, R. and Olds, J. L. Lithium Decreases Membrane-Associated Protein Kinase C in Hippocampus: Selectivity for the Alpha Isozyme (1993) *J. Neurochem.* 61:2303-2310.
17. Connor, J.H., Olds, J.L., Lester, D.S., McPhie, D.L., Senft, S.L., Johnston, J.A. and Alkon, D.L. Heterogenous Distribution of Fluorescent Phorbol Ester Signal in Living Sea Urchin Embryos. (1992) *Biological Bulletin.* 183: 365-366.
18. Olds, J.L. and Alkon, D.L. (1993) Protein Kinase C: A Nexus in the Biochemical Events that Underlie Associative Learning. *Acta Neurobiologia Experimentalis.* 53: 197-207.
19. Craig, A.M., Olds, J.L., Schreurs, B.G., Scharenberg, A.M. and Alkon, D.L. (1993) Quantitative Distribution of Protein Kinase C  $\alpha$ ,  $\beta$ ,  $\gamma$ , and  $\epsilon$  mRNAs in the Hippocampus of Control and Nictitating Membrane Conditioned Rabbits. *Molecular Brain Research.* 19:269-276.

20. Olds, J.L. (1994) Invited Book Review: The Computational Brain, Churchland, P.S. and Sejnowski, T J. MIT Press, Cambridge, MA, 1992; *Contemp. Psychol.* 39: 127-130.
21. Olds, J.L. and Alkon, D.L. (1994) The Role of PKC in Associative Learning. Chapter. *Proceedings of Protein Kinase C in the CNS: Focus on Neuronal Plasticity*. Milan, Italy. Ed: Canonico, P. Masson, Milan. pp 57-67.
22. Olds, J.L., Bhalla, U.S., McPhie, D.L., Bower, J. and Alkon, D.L. (1994) Lateralization of Membrane-Associated PKC Distribution in Rat Olfactory Cortex: Specific to Learning in the Olfactory Modality. *Behavioral Brain Res.* 61: 37-46.
23. Lester, D.S., Olds, J.L., Youstra., S. and Schreurs, B. (1994) Incorporation of Fluorescent Lipid Substrates into Living Brain Slices. *Neuroprotocols.* 5:5-12.
24. Olds, J.L., Frey, K.A. and Agranoff, B.W. (1994) Sequential Double-Label Deoxyglucose Autoradiography for Determining Cerebral Metabolic Change: Origins of Variability within a Single Brain. *Neuroprotocols.* 5:12-24.
25. Lester, D.S., Olds, J.L., Scheurs, B.G., McPhie, D L., Bramham, C. R. and Alkon, D.L. (1994) Incorporation of Fluorescent Lipids into Rabbit Hippocampal and Cerebellar slices. *Neuroimaging.* 1: 264-275.
26. Lester, D.S. and Olds, J.L. (1994) Invited Editorial *Neuroprotocols.* 5: 1. 13
27. Golski, S., Olds, J.L., Mishkin, M., Olton, D. and Alkon, D.L. (1995) Protein Kinase C in the Hippocampus is Altered by Spatial but not by Cued Discriminations: A Component Task Analysis. *Brain Research.* 676: 53-62.
28. Kim, C.S., Han, Y., Etcheberrigaray, R., Nelson, T.J., Olds, J.L. and Alkon, D.L. Alzheimer and beta-amyloid-treated fibroblasts demonstrate a decrease in a

memory-associated GTP-binding protein, Cp20. Proc. Natl. Acad. Sci. USA. 92: 3060-3064.

29. Olds, J.L. (1995) Zip-coding the Dendritic Spine: A Biologically Plausible Solution to biological addressing within mammalian nerve cells. Proceedings International Neural Networks Society '95.
30. Olds, J. L., Favit, A., Nelson, T.J., Ascoli, G., Gerstein, A., Cameron, M., Cameron, L., Lester, D.S., Rakow, T. and Alkon, D.L. (1995) Imaging Protein Kinase C Activation in Living Sea Urchin Eggs After Fertilization. Dev. Biol. 172: 675-682.
31. Olds, J.L. Molecular Probes for Protein Kinase C and Related Molecules as Tools for Imaging Memory. J. Physiol. Biochem (rev. esp. fisiol.) 53:51, 1997.
32. Nelson, T.J., Cavallaro, S., Yi, C., McPhie, D., Schreurs, B.G., Gusev, P.A., Favit, A., Zohar, O., Kim, J., Beuhausen, S., Ascoli, G., Olds, J.L., Neve, R. and Alkon, D.L. (1996) Calyculin: A Signaling Protein that Binds Calcium and GTP, Inhibits Potassium Channels, and Enhances Membrane Excitability. Proc. Natl. Acad. Sci. USA. 93: 13808-13813.
33. Ascoli, A., Luu, K.X., J L. Olds, Nelson, T.J., Gusev, P.A., Bertucci, C., Bramanti, E., Raffaelli, A., Salvadori, P. and Alkon, D.L. (1997) Secondary structure and Ca<sup>2+</sup>-induced conformational change of calyculin, a learning- associated protein. Journal of Biological Chemistry. 272:24771-24779.
34. Krichmar, J.L., Ascoli, G.A., Hunter L., and Olds, J.L..(1997), A Model of Cerebellar Saccadic Motor Learning using Qualitative Reasoning Lecture Notes in Computer Science, Artificial and Natural Neural Networks, G. Goos, J. Hartmants, J. van Leeuwen eds. Springer-Verlag NY. 1240: 133-145.
35. De Barry, J., Kawahara, S., Takamura, K., Janoshazi, A., Kirino, Y., Olds, J.L., Lester, D.S., Alkon, D.L. and Yoshioka, T. (1997) Time-resolved imaging of

protein kinase C activation during sea urchin egg fertilization. *Exp Cell Res* 234(1):115-124.

36. Hunter, L., Krichmar, J.L. and Olds, J.L. (1997), "Qualitative Reasoning as a Modeling Tool for Computational Neuroscience," Proceedings of the 11th International Workshop on Qualitative Reasoning. Publication 1036, Instituto di Analisi Numerica C.N.R, Pavia, Italy. pp. 265-276.
37. Krichmar, J.L., Ascoli, G.A., Hunter, L. and Olds, J.L. (1998), Qualitative Reasoning as a Modeling Tool for Computational Neuroscience. In: Computational Neuroscience: Trends in Research 1998, J.M. Bower Ed. Plenum Press NY.
38. Freeman, J.H., Scharenberg, A.M., Olds, J.L. and Schreurs, B.G., (1998) Classical Conditioning Increases Membrane-Bound Protein Kinase C in Rabbit Cerebellum, *Neuroreport*, Aug 3;9(11):2669-73.
39. Lester, D.S. and Olds, J.L. (2001) Biomedical imaging: 2001 and beyond. *Anat Rec*. Apr15;265(2):35-6.
40. Olds, J.L. (2001) Inalienable Thoughts, *Complexity* 6(5):23-27.
41. Devan, B. D., Petri, H. L., Mishkin, M., Stouffer, E. M., Bowker, J. M., Yin, P. B., Buffalari, D. M., & Olds, J. L. (2002). A room with a view and a polarizing cue: Individual differences in the stimulus control of place navigation and passive latent learning. *Neurobiology of Learning and Memory* Jul 78(1):79-99.
42. Devan, B.D., Stouffer, E.M., Petri H.L., McDonald, R.J. and Olds J.L. (2003) Partial Reinforcement Across Trials Impairs Escape Performance but Spares Place Learning in the Water Maze. *Behavioral Brain Research* 141:91-104.
43. Olds, J.L. (2005) The Biological Bulletin-A Message from the Editor 208:1-2

44. Baker J.L. and Olds J.L. (2007) Theta Phase Precession Emerges from a Hybrid Computational Model of a CA3 Pyramidal Cell. *J. Cognitive Neurodynamics* 1: 237-248
45. Olds, J.L. (2008) Science rebooted: what the trend toward on-line collaboration might mean for a journal like *The Biological Bulletin*. *Biol. Bull.* 215:1-2
46. Cooper, D.L., Gentle, J.E. and Olds, J.L. (2008) Statistical Outliers in Neuron Population and Myelinated Fiber Development in Human Neocortex. *Advances in Cognitive Neurodynamics ICNN 2007* pp. 203-206
47. Cooper D.L., Gentle, J.E., Barreto, E, and Olds, J.L. (2010) Evidence for cortical layer- and Brodmann Area-dependent postnatal neurodevelopmental interaction in human neocortical neuron populations, *J. Cognitive Neurodynamics* 4(2): 151-63
48. Smith J. and Olds J. L. (2011) Models and Mechanisms of Regenerative Biology Across Phylogeny: Introduction to a Virtual Symposium in *The Biological Bulletin*. *Biol. Bull.* 221: 3-5
49. Olds, J.L. (2013) On the Occasion of an Important Anniversary, *The Biological Bulletin* 224:119
50. Olds, J.L. (2016) The Rise of Team Neuroscience, *Nature Neuroscience Reviews* DOI:10.1038/nrd.2016.116
51. Olds, J.L. (In Press) *The Way Forward*, *The Biological Bulletin*.

## Public Policy Publications

1. Olds, J.L. (1997) Affection for the MBL. *Science*. Nov 14; 278(5341): 1209.
2. Olds, J.L., (1998) Reorganization of NIH's neuroscience study sections: part of a larger integration plan. *Anat Rec*. Apr; 253(2): 36.
3. Olds, J.L., (1998) R29 to RO1 transition at NIH. *Anat Rec*. Feb; 253(1): 5
4. Olds, J.L (1998) Capitol Hill update. *Anat Rec*. 1998 Feb; 253(1): 3-4
5. Olds, J.L. (1998) Administering a National Landmark for Medicine: A Conversation With Dr. Adrienne Noe, Director of the National Museum of Health and Medicine, Washington D.C. *Anat. Rec*. October; 253(5):135-139.
6. Besharse, J.C., Carlson, B.M., Jenkins, D.P., Lester, D.S., Olds, J.L., Satir P. (1999) Redefining rats, mice, and birds. *Science*. Apr 2;284(5411):49-50.
7. Olds, J.L. (1999) Why Anatomical Scientists Need to Practice Science Advocacy. *Anat. Rec*. 257:183-184.
8. Olds, J.L. (1999) A True Champion of Basic Biomedical Research: A Conversation with Rep. John E. Porter, United States House of Representatives. *Anat. Rec*. 257: 191-194.
9. Olds, J.L. (2000) Leaving the First Amendment to the Courts: A Pro-evolution Strategy for Scientists. *Anat. Rec*. 261: 163-164.
10. Olds, J, L. (2000) Capitol Hill Update Fall 2000. *Anat. Rec*. 261: 168-169. 16
11. Olds, J.L. (2001) Are There Really Too Many Biomedical Trainees *Anat. Rec*. 265:157-158



12. Olds, J.L. (2004) The Intellectual Property Conundrum for Biosciences. *Anat. Rec.* 277B:5-9
13. Olds, J.L. (2005) Election 2004: The Implications for Biomedical Research. *Anat. Rec.*
14. Olds, J.L. (2008) Science Rebooted: What the trend towards online collaboration might mean for a journal like *The Biological Bulletin*, *The Biological Bulletin* 215, 1-2
15. Olds, J.L. (2009) A Plea for Basic Science, *The Biological Bulletin* 217:1
16. Giordano, J., Forsythe C.J. and Olds, J.L. (2010) Neuroscience, Neurotechnology and National Security: The Need for Preparedness and an Ethics of Responsible Action, *AJOB-Neuroscience*.1: 35-36
17. Giordano, J and Olds J.L. (2010) The Interfluence of Neuroscience, Neuroethics, and Legal and Social Issues: The Need for (N)ELSI. *AJOB-Neuroscience*9(4):1:3.
18. Olds, J.L. (2011) For An International Decade of the Mind, *Malaysian Journal of Medical Sciences*, 18(2) April-June
19. Olds, J.L. et al (2013) Book Chapter: Human Cognition and Communication and the Emergence of a Cognitive Society (Springer, New York). *Convergence of Knowledge, Technology and Society*. Roco et al. Eds.
20. Olds J.L. (2015) Neurotechnology, Book Chapter: *Handbook of Science and Technology Convergence*”(eds WS Bainbridge and MC Roco), Springer, 2015

## Congressional Testimony

House Commerce Science and Justice Appropriations Subcommittee; February 26, 2015 National Science Investments in Understanding the Brain.

House Committee on Science and Technology; September 18, 2015 The National Ecological Observatory Network.

## Editorial Service

1994 Guest Editor (with D. S. Lester): Neuroprotocols Volume 5. Imaging Biological Changes in Living Cells, Academic Press

1998-2006 Editorial Advisory Board, The New Anatomist, Wiley-Liss

2006-2010 Editorial Board, Journal of Cognitive Neurodynamics, Springer Publishing

2004-present Editor-in-Chief, Biological Bulletin, Marine Biological Laboratory

## Selected Invited Lectures

October 2016 Science, Technology and Society Conference, Kyoto Japan

September 2016 Kavli/ Rockefeller University International Brain Conference New York City (in association with the UN General Assembly meeting)

September 2015 Brain Trust V, Geneva Switzerland

September 2015 LTER All Scientists Meeting, Estes Park CO

May 2015, Medical College of Georgia Hooding Ceremony Key Note

August 2014 Scifoo Camp, Google, Mountain View CA

July 2014 Prince Edward Island BioAlliance, PEI Canada, Plenary

February 2014 Arlington County, Cafe Scientifique, NSF

December 2013 Foundation Bankinter, Madrid Spain

August 2013 President's Council on Bioethics, Executive Office of the President

June 2013 AAAS Neuroscience and Public Policy Group

February 2013 Sandia Workshop on Brain Inspired Computing, Plenary

October 2012 NSF NBIC2 Workshop, Beijing, China

October 2012 NSF NBIC2 Workshop, Seoul, South Korea

September 2012 NSF NBIC2 Workshop, Leuven Belgium

August 2012 Renaissance Weekend, Aspen Colorado

May 2012 TEDx talk George Mason University; TMI: When Cognitive Over- load Kills

December 2011 Polish Presidency, European Union, Collaboration in Science between the US and Europe, Washington D.C.

September 2011 University of Helsinki, Department of Neuroscience

December 2010 Plenary, The Neurobiology of Political Violence, NIH

October 2010 Decade of the Mind VI Plenary, Singapore

September 2010 Mount Holyoke College, Biology Department

March 2010 Washington Philosophical Society Lecture, Washington D.C.

September 2009 Decade of the Mind V Keynote, Berlin Germany

January 2009 Decade of the Mind IV, Tamaya Resort, New Mexico

October 2008 Center for Strategic and International Studies, Washington DC

October 2008 Grand Rounds, Dept. of Neuroscience, Fairfax Hospital

August 2008 Scifoo Camp, Google, Mountain View CA

May 2008 Decade of the Mind III, Great Ape Trust, Des Moines Iowa

April 2008 Krasnow Monday Seminar Series, Fairfax VA

October 2007 Smithsonian Associates, 2 Invited Lectures

July 2007 Quantum Brain, Salzburg Austria (invited session chair and plenary speaker)

May 2007 Sandia Labs Cognition Forum with St. Petersburg State University, Russia

November 2006 Moderator: Thorium Nuclear Power Forum, National Press Club

June 2006 Sandia Labs Neuroscience Short Course, Santa Fe NM

June 2006 Preparing Future Faculty Institute, Howard University

August 2004 Workshop on Neuroscience and Architecture, Woods Hole

December 2003 Workshop on Neuroscience and Architecture, Washington D.C.  
Academy of Neuroscience for Architecture

## Continuing Education

George Mason University 1999: Management and Leadership for Nonprofits

The Brookings Institution 2001: Inside Washington 2001, Understanding the  
new Administration, The new Congress and the FY2002 Budget.

Gordon Conference on Science Policy 2002: Connecticut College

NAFTA at 10 Conference 2002, sponsored by the Woodrow Wilson International Center for Scholars