

Curriculum Vitae

Kent Charles Berridge

Current Position

James Olds Collegiate Professor of Psychology and Neuroscience
The University of Michigan

Department of Psychology
Biopsychology Program
University-wide Neuroscience Program

Address

Department of Psychology
4038 East Hall (530 Church St.)
University of Michigan
Ann Arbor, Michigan 48109-1043 USA

Phone (734) 763-4365
Email: berridge@umich.edu
Web page: <http://www-personal.umich.edu/~berridge/>

Education

Ph.D.	1983	University of Pennsylvania
M.A.	1980	University of Pennsylvania
B.S. (Honors)	1979	University of California at Davis (Junior year abroad at Sussex University, England, 1977-78)

Academic Appointments

2009 – present	James Olds Collegiate Professor of Psychology and Neuroscience College of Literature, Science and Arts. University of Michigan, Ann Arbor
1995 - present	Professor Department of Psychology, University of Michigan, Ann Arbor
1990 -1995	Associate Professor Department of Psychology, University of Michigan, Ann Arbor
1985 -1990	Assistant Professor Department of Psychology, University of Michigan, Ann Arbor
1983 -1985	Killam, NATO Science, & NIMH Postdoctoral Fellow, Department of Psychology, Dalhousie University, Nova Scotia, Canada

Visiting Appointments

2005 -2006	Visiting Professor, Downing College and Department of Experimental Psychology, University of Cambridge, England
2001-2003	Visiting Professor (not in residence), Department of Psychology, University of Liverpool, England
1998-1999	Chercheur associé (visiting scientist), CNRS Centre Européen des Sciences du Goût, University of Burgundy, Dijon, France
1991-1992	Visitor (visiting scholar), School of Psychology, University of Birmingham, England

Selected Academic Honors

Fellow, American Association for the Advancement of Science, 2011
Fellow, John Simon Guggenheim Memorial Foundation 2005
Fellow, American Psychological Association, appointed 1998 & 2002
 Division 3: Experimental Psychology (appointed Fellow 2002)
 Division 6: Behavioral Neuroscience & Comparative Psychology (appointed Fellow 1998)
Fellow & Charter Member, Association for Psychological Science (appointed Fellow 2000)
Fulbright Senior Scholar 1998-1999
Faculty Research Excellence Award, College of Literature, Science, & Arts, University of Michigan, 1997
Award for Distinguished Scientific Early Career, American Psychological Association, 1991
James McKeen Cattell Foundation Sabbatical Fellow Award, 1992

Teaching Awards, Student-elected Honors, and Service Awards

Distinguished Lecturer Award, University of North Carolina at Chapel Hill, elected by graduate students in Behavioral Neuroscience program in UNC Department of Psychology, 2012
Faculty of 1000 Post-publication Peer Review, Faculty Member of the Year in Neuroscience, 2011
Honorary member of Golden Key National Honor Society, elected by University of Michigan students, 1995
Excellence in Education Teaching Award
 College of Literature, Science and the Arts, University of Michigan (awarded twice: 1991 and 1993)
Master Lecturer Award for Teaching, Michigan Psychological Association, 1991

Current Research Interests

Research in my laboratory addresses fundamental questions such as:

- How is pleasure generated in the brain?
- What are the brain mechanisms of appetite?
- What are the neural bases of reward wanting and liking?
- How are rewards learned?
- What causes addiction?
- How does the brain code affective valence (pleasant from unpleasant)?
- How does the neurobiology of fear relate to neurobiology of desire?
- What is an unconscious emotion?
- How do brains produce real behavior?
- What goes wrong in action disorders (Parkinsons, OCD, Tourettes)?

Professional Membership

Society for Neuroscience; Association for Psychological Science; American Psychological Association; Society for the Study of Ingestive Behavior; International Society for Behavioral Neuroscience; International Society for Neuroethology.

Current Editorial Boards:

Journal editorial boards: *Journal of Neuroscience*; *Behavioral Neuroscience*; *Cognitive, Affective & Behavioral Neuroscience*; *Emotion Reviews*; *International Journal of Eating Disorders*; *Frontiers in Behavioral Neuroscience*

Post-Publication Peer Review:

Faculty of 1000 in Biology (published over 280 online evaluations since 2005 as a Member of Faculty in 1000, Behavioral Neuroscience Section)

<http://www.f1000biology.com/about/biography/2780856232420421>

Publications

Edited Book

Kringelbach M.L. & Berridge K.C. (Eds.): *Pleasures of the Brain*. Oxford: Oxford University Press (343 pages), 2010.

Amazon link: <http://www.amazon.com/Pleasures-Affective-Science-Morten-Kringelbach/dp/0195331028>

Journal Articles and Book Chapters

- DeFeliceantonio, A. G. & Berridge, K.C. Which cue to 'want'? Opioid stimulation of central amygdala makes goal-trackers show stronger goal-tracking, just as sign-trackers show stronger sign-tracking. *Behavioural Brain Research*, 230(2), 399-408, (2012). PMID: PMC3322261
- Berridge, K.C. From prediction error to incentive salience: mesolimbic computation of reward motivation. *European Journal of Neuroscience*, 35(7) 1124-1143, (2012). PMID: PMC3325516
- Mahler, S.V. & Berridge, K.C. What and when to "want"? Amygdala-based focusing of incentive salience upon sugar and sex. *Psychopharmacology*, DOI 10.1007/s00213-011-2588-6 (2012).
- Zhang, J., Berridge, K.C., & Aldridge, J.W. Computational models of Incentive-Sensitization in addiction: Dynamic limbic transformation of learning into motivation. In *Computational Neuroscience of Drug Addiction*. Edited by B. Gutkin & S.H. Ahmed. Springer, pp. 189-204 (2012).
- Berridge, K.C. Contributions of Philip Teitelbaum to affective neuroscience. *Behavioural Brain Research*, 231, 396-403, (2012). PMID: PMC3313001
- Berridge, K.C. & Kringelbach, M.L. Building a neuroscience of pleasure and well-being. *Psychology of Well-Being: Theory Research and Practice*. 1:3, <http://www.psywb.com/content/1/1/3> (2011). PMID: PMC3274778
- Richard, J.M. & Berridge, K.C. Nucleus accumbens dopamine/glutamate interaction switches modes to generate desire versus dread: D1 alone for appetitive eating but D1 and D2 together for fear. *Journal of Neuroscience*, 31(36): 12866 - 12879, (2011). PMID: PMC3174486
- Smith, K.S., Berridge, K.C. & Aldridge, J.W. Disentangling pleasure from incentive salience and learning signals in brain reward circuitry. *Proceedings of the National Academy of Sciences PNAS Plus*, 108, (27) E255-E264, (2011).
- Short Version (2-page summary): Smith, K.S., Berridge, K.C., Aldridge, J.W. *PNAS*, 108 (27), 10935-10936 (2011).
- Richard, J.M. & Berridge, K.C. Metabotropic glutamate receptor blockade in nucleus accumbens shell shifts affective valence towards fear and disgust. *European Journal of Neuroscience*, 33, 736-474, (2011). PMID: PMC3039038
- Kringelbach, M.L. & Berridge, K.C. The neurobiology of pleasure and happiness. In *The Oxford Handbook of Neuroethics*. Edited by Judy Illes and Barbara J. Sahakian. Oxford University Press, pp. 15-32 (2011).
- Berridge, K.C. & Robinson, T.E. Drug addiction as incentive sensitization. In *Addiction and Responsibility*. Edited by Jeffrey Poland and George Graham. MIT Press, pp. 21- 54 (2011).
- Winkielman, P., Berridge, K.C. & Sher, S. Emotion, consciousness and social behavior. In *The Oxford Handbook of Social Neuroscience*. J. Decety & J. Cacioppo (Eds.). Oxford University Press, pp. 195-211, 2011.
- Faure A., Richard J.M., Berridge K.C. Desire and Dread from the Nucleus Accumbens: Cortical Glutamate and Subcortical GABA Differentially Generate Motivation and Hedonic Impact in the Rat. *PLoS ONE* 5(6): e11223. doi:10.1371/journal.pone.0011223 (2010). PMID: PMC2887893
- Berridge, K.C., Ho, C.-Y., Richard, J.M., DiFeliceantonio, A.G. The tempted brain eats: Pleasure and desire circuits in obesity and eating disorders. *Brain Research*, 1350: 43-64 (2010). PMID: PMC2913163
- Kringelbach, M.L. & Berridge, K.C. The Functional Neuroanatomy of Pleasure and Happiness. *Discovery Medicine*, 9(49):579-87, June (2010). PMID: PMC3008353

- Kringelbach, M.L. & Berridge, K.C. The neuroscience of happiness and pleasure. *Social Research*, 77:2, 659-678 (2010).
- Aldridge JW, Berridge K.C. Neural Coding of Pleasure: "Rose-Tinted Glasses" of the Ventral Pallidum. In *Pleasures of the Brain*. Edited by Kringelbach ML, Berridge KC: Oxford University Press, pp. 62-73 (2010).
- Smith KS, Mahler SV, Pecina S, Berridge K.C. Hedonic Hotspots: Generating Sensory Pleasure in the Brain. In *Pleasures of the Brain*. Edited by Kringelbach M, Berridge KC: Oxford University Press, pp. 27-49 (2010).
- Berridge, K.C. Remembering Robert Zajonc: The complete psychologist. *Emotion Review*, 2 (4), 348-352 (2010)
- Taylor, J.L., Rajbhandari, A.K., Berridge, K.C. & Aldridge, J.W. Dopamine receptor modulation of repetitive grooming actions in the rat: Potential relevance for Tourette syndrome. *Brain Research*, 1322, 92-101 (2010). PMID: PMC2858339
- Berridge, K.C. Incentive Motivation and Incentive Salience. In Editors-in-Chief: F.K. George, M. Le Moal, R. F. Thompson, F. Koob, M.L.M., Richard, F.T. (eds) *Encyclopedia of Behavioral Neuroscience*. Academic Press, Oxford, pp. 100-104. (2010)
- Tindell, A.J., Smith, K.S., Berridge, K.C. & Aldridge, J.W. Dynamic computation of incentive salience: 'wanting' what was never 'liked'. *Journal of Neuroscience*, 29(39), 12220-12228 (2009). PMID: PMC2792765
- Kringelbach, M.L. & Berridge, K.C. Toward a functional neuroanatomy of pleasure and happiness. *Trends in Cognitive Sciences*, 13(11) 479-487 (2009). PMID: 2767390
- Zhang J, Berridge KC, Tindell AJ, Smith KS, Aldridge JW. A Neural Computational Model of Incentive Salience. *PLoS Computational Biology* 5(7): e1000437. doi:10.1371/journal.pcbi.1000437 (2009). PMID: 2703828
- Mahler, S.V. & Berridge, K.C. Which cue to 'want'? Central amygdala opioid activation enhances and focuses incentive salience on a prepotent reward cue. *Journal of Neuroscience*, 29(20), 6500-6513, (2009). PMID: PMC2802210
- Berridge, K.C. 'Liking' and 'wanting' food rewards: brain substrates and roles in eating disorders. *Physiology & Behavior*, 97(5):537-50 (2009). PMID: 2717031
- Berridge, K.C., Robinson, T.E. & Aldridge, J.W. Dissecting components of reward: 'liking', 'wanting', and learning. *Current Opinion in Pharmacology*, 9, 65-73 (2009). PMID: 2756052
- Smith, K. S., Tindell, A.J., Aldridge, J.W., & Berridge, K.C. Ventral pallidum roles in reward and motivation. *Behavioral Brain Research*, 196, 155-167 (2009). PMID: 2606924
- Berridge, K.C. Wanting and Liking: Observations from the Neuroscience and Psychology Laboratory. *Inquiry*, 52:4, 378-398 (2009). PMID: PMC2813042
- Berridge, K.C. & Aldridge, J.W. Decision utility, incentive salience and cue-triggered 'wanting'. Reprinted in: Morsella, E. Bargh, J.A. & Gollwitzer, P.M. (Eds.), *Oxford Handbook of Human Action*. Oxford University Press, N.Y. pp 509-532 (2009).
- Faure, A. Reynolds, S.M., Richard, J.M. & Berridge, K.C. Mesolimbic dopamine in desire and dread: Enabling motivation to be generated by localized glutamate disruptions in nucleus accumbens. *Journal of Neuroscience*, 28, 7184-7192 (2008).
- Berridge, K.C. & Aldridge, J.W. Decision utility, the brain, and pursuit of hedonic goals. *Social Cognition*, 26, 621-646, 2008.
- Reynolds, S.M. and Berridge, K.C. Emotional environments retune the valence of appetitive versus fearful functions in nucleus accumbens. *Nature Neuroscience*, 11(4), 423-425 (2008).
- Berridge, K.C. & Kringelbach, M.L. Affective neuroscience of pleasure: reward in humans and animals. *Psychopharmacology*, 199, 457-480 (2008).
- Robinson, T.E. & Berridge, K.C. The incentive sensitization theory of addiction: some current issues. *Philosophical Transactions of the Royal Society B*, 363, 3137-3146 (2008).
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- Berridge, K.C. The debate over dopamine's role in reward: the case for incentive salience. *Psychopharmacology*, 191, 391-431 (2007).
- Berridge, K.C. Brain reward systems for food incentives and hedonics in normal appetite and eating disorders. In *Appetite and Body Weight*. T.C. Kirkham & S.J. Cooper (Eds.), Academic Press, pp. 191-216, 2007.
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- Berridge, K.C. & Robinson, T.E. Automatic processes in addiction: a commentary. In *Handbook of Implicit Cognition and Addiction* (R. W. Wiers & A. W. Stacy, Eds.). Sage Press, pp. 477-481 (2006).
- Matell, M.S., Berridge, K.C., Aldridge, J.W. Dopamine D1 activation shortens the duration of phases in stereotyped grooming sequences. *Behavioural Processes*, 71 241–249 (2006).
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- Tindell, A.J., Berridge, K.C., Zhang, J., Peciña, S., and Aldridge, J.W. (2005). Ventral pallidal neurons code incentive motivation: Amplification by mesolimbic sensitization and amphetamine. *European Journal of Neuroscience*, 22(10) 2617–2634 (2005).
- Smith, K.S. & Berridge, K.C. (2005) The ventral pallidum and hedonic reward: neurochemical maps of sucrose 'liking' and food intake. *Journal of Neuroscience*, 25(38), 8637-8649.
- Berridge, K.C., Aldridge, J.W., Houchard, K.R., & Zhuang, X. (2005). Sequential super-stereotypy of an instinctive fixed action pattern in hyper-dopaminergic mutant mice: a model of obsessive compulsive disorder and Tourette's. *BMC Biology* 2005, 3:2.
- Richardson, D. K., Reynolds, S. M., Cooper S. J., and Berridge, K.C. (2005) Endogenous opioids are necessary for benzodiazepine palatability enhancement: naltrexone blocks diazepam-induced increase of sucrose 'liking'. *Pharmacology, Biochemistry and Behavior* 81(3) 657-663.
- Winkielman, P., Berridge, K. C., & Wilbarger, J. L. (2005). Unconscious affective reactions to masked happy versus angry faces influence consumption behavior and judgments of value. *Personality and Social Psychology Bulletin*, 31(1), 121-135.
- Winkielman, P., Berridge, K.C., & Wilbarger, J. (2005) Emotion, behavior, and conscious experience: Once more without feeling. In *Emotion and Consciousness*. Barrett, L.F., Niedenthal, P.M., & Winkielman, P. (Eds.). Guilford Press, N.Y. pp. 335-362, 2005.
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- Aldridge, J. W., Berridge, K. C., & Rosen, A. R. (2004). Basal ganglia neural mechanisms of natural movement sequences. *Canadian Journal of Physiology and Pharmacology*, 82(8-9), 732-739.
- Berridge, K. C. (2004). Simple pleasures. *Psychological Science Agenda*, 18 (11). American Psychological Association. APA Online.
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- T.E. Robinson, Berridge, K.C. (2004) Incentive-sensitization and drug 'wanting', *Psychopharmacology* (Berl) 171, 352-353.
- Peciña S., Cagniard, B., Berridge, K.C., Aldridge, J.W. & Zhuang, X. Hyperdopaminergic mutant mice have higher 'wanting' but not 'liking' for sweet rewards. *Journal of Neuroscience* 23 (28), 9395-9402, 2003.
- Berridge, K.C. & Robinson, T.E. Parsing reward. *Trends in Neurosciences*, 26 (9), 507-513, 2003
- Berridge, K.C. Pleasures of the brain. *Brain & Cognition*, 52 (10), 106-128, 2003.
- Winkielman, P. & Berridge, K.C. Irrational wanting and subrational liking: How rudimentary motivational and affective processes shape preferences and choices. *Political Psychology* 24(4), 657-680, 2003.
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- Robinson, T.E. & Berridge, K.C. Addiction. *Annual Review of Psychology*, v. 54, 25-53, 2003.
- Berridge, K.C. Comparing the emotional brain of humans and other animals. In *Handbook of Affective Sciences*, R.J. Davidson, H.H. Goldsmith, & K. Scherer (Eds.), Chapt. 3: pp. 25-51, Oxford University Press, 2003.
- Berridge, K.C. & Winkielman, P. What is an unconscious emotion? (The case for unconscious 'liking'), *Cognition & Emotion*, 17, 181-211, 2003.
- Berridge, K.C. Irrational pursuits: Hyper-incentives from a visceral brain. In *The Psychology of Economic Decisions*, vol 1, I. Brocas J. Carrillo (Eds.), Oxford University Press, pp 17-40 (2003).
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Selected Invited Addresses & Colloquia (2005- present)

- Limbic generators for delight, desire and dread. Invited colloquium, Center for Neurobehavioral Development, University of Minnesota, Minneapolis, 2012.
- Limbic generators for delight, desire and dread. Invited colloquium, Behavioral Neuroscience Program, Department of Psychology, University of North Carolina at Chapel Hill, 2012.
- Limbic generators for delight, desire and dread: Brain modules and modes. Invited colloquium, Keck Distinguished Lecture Series, University of Southern California, Los Angeles 2011.
- Pleasure and Happiness: Neuroscience to philosophy. Invited focus for graduate seminar in Department of Philosophy, Columbia University, New York, 2011.
- Limbic generators of reward liking and wanting versus aversive motivations: Modules & modes. Invited plenary address, European Behavioural Pharmacology Society, Amsterdam, Netherlands, 2011.
- Delight, Desire and Dread: Limbic brain generators. Invited Psychological Science Master Lecture, American Psychological Association convention, Washington, D.C. 2011.
- The neuroscience of happiness. Invited speaker, Annual Aspen Institute Ideas Festival, Aspen, 2011
- Functional heterogeneity within nucleus accumbens. Invited colloquium, National Institute on Drug Abuse, Intramural Research Program, Baltimore, 2011.
- Mixed feelings: Brain limbic generators of delight, desire and dread. Invited public lecture, Brainstorm 2011, Center for Integrative and Cognitive Neuroscience, Vanderbilt University, Nashville, 2011.
- Sugar on the brain. Invited keynote address, COAST Obesity Symposium, UCSF & University of California at Davis, 2011
- Addiction issues. Invited graduate seminar speaker, Philosophy & Linguistics Department, MIT, Cambridge MA, 2011.
- Wanting and Liking: Phenomena for Addiction and Philosophy. Invited speaker, Oxford Institute of Philosophy, University of Oxford, Oxford, United Kingdom 2010.
- Inside emotion: affective building blocks. Invited colloquium, Psychology Department, Boston College, Boston, 2010.
- Mesocorticolimbic generators of 'liking', 'wanting' and fear. Invited colloquium, Neuroscience Program, University of Wisconsin, Madison 2010.
- Neural substrates of reward. Invited speaker, Neural Mechanisms of Ingestive Behavior and Obesity Conference (Elsevier Brain Research Meeting - SFN), Chicago 2009.
- Delight, Desire and Dread: Limbic Brain Generators. Invited colloquium, Department of Psychology, University of Pennsylvania, 2009.
- Delight, Desire and Dread: Limbic Brain Bases. Invited Grand Rounds lecture, Department of Psychiatry, Johns Hopkins University, Baltimore 2009.
- Limbic bases of delight, desire and dread. Invited Brains and Behavior Distinguished Lecturer, Georgia State University, Atlanta, 2009.
- Limbic Components in Food Reward: Liking, Wanting, Desire and Dread. Invited Mars Lecture, Society for the Study of Ingestive Behavior conference, Paris, France 2008.
- Delight, desire and dread: Limbic brain bases. Invited speaker (NIDA-sponsored talk), Association for Psychological Science, 20th Convention, Chicago, 2008.
- Delight, desire and dread from the limbic brain. Invited lecture. Arnold Pfeffer Center for Neuro-Psychoanalysis, The New York Psychoanalytic Society and Institute, New York, 2008.
- Wanting and Liking. Invited lead speaker, Philosophy workshop on wanting and liking, Center for Study of Mind in Nature, Department of Philosophy, University of Oslo, Oslo, Norway 2008.
- Teasing apart experienced utility and decision utility in the brain. Invited speaker, Neuroeconomics Symposium, American Psychological Association conference, San Francisco, 2007.
- Emotional building blocks. Invited colloquium, Department of Psychology, Dalhousie University, Halifax, Nova Scotia Canada, 2007.
- Limbic components of desire and fear. Invited colloquium, Pennington Biomedical Research Center, Louisiana State University, Baton Rouge, 2007
- Unconscious components in emotion. Invited speaker, Swartz Foundation Conference on New Frontiers in Studies of Nonconscious Processing, Banbury Center, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, 2007.

- Inside emotion: affective building blocks. Invited colloquium, Columbia University, Department of Psychology, New York, 2007.
- Affective building blocks inside emotion. Invited address. Society for Psychophysiological Research, Vancouver, 2006.
- Bindra-ian foundations of reward learning, liking and wanting. Invited 2nd Annual Bindra Lecture, Department of Psychology, McGill University, Montreal, 2006.
- Decision Utility. Invited lecturer, Stanford Summer school in Neuroeconomics, Department of Economics, Stanford University, Palo Alto, 2006.
- Role of Dopamine in Reward: Prediction error learning or incentive salience 'wanting'? Invited colloquium, Gatsby Computational Neuroscience Unit, University College London, UK, 2006.
- Incentive-sensitization and mesolimbic dopamine function. Invited seminar, Cognitive and Behavioural Neuroscience Institute, Cambridge University, Cambridge, UK, 2006.
- Inside emotion: affective building blocks. Invited colloquium, MRC Cognition and Brain Sciences Unit, Cambridge University, Cambridge, UK 2006
- Liking and wanting systems in food reward. Invited speaker, British Science of Feeding and Drinking 30th Convention, Birmingham, England 2006.
- What does dopamine do in reward today? Invited colloquium, Department of Biology and Psychology, The Open University, Milton Keynes, England, U.K., 2006
- Affective building blocks. Invited colloquium, Dept of Physiology, Anatomy and Genetics, University of Oxford, Oxford, UK, 2006.
- Inside emotion. Invited colloquium, Department of Psychology, St. Andrews University, Scotland, U.K., 2006
- Affective building blocks inside emotion. Invited colloquium, Department of Imaging Neuroscience, University College London, London, U.K. 2006.
- Instinct? A reappraisal. Invited seminar, Comparative Psychology laboratory, Department of Experimental Psychology, University of Cambridge, 2006.
- Affective building blocks inside emotion. Invited colloquium, Department of Psychology, University of Cardiff, Wales, U.K., 2006.
- Affective building blocks. Invited Zangwill colloquium, Department of Experimental Psychology, University of Cambridge, UK 2005.
- Carving components of reward in nucleus accumbens and ventral pallidum. Invited colloquium, Behavioral Neuroscience seminar series, Cambridge University, UK, 2005.
- Limbic coding of reward 'liking' and 'wanting'. Invited colloquium, Gallo Addiction center, UCSF, San Francisco, 2005.
- What is the role of dopamine in reward? Invited debate speaker, Gordon Research Conference on Catecholamines, Proctor Academy, Andover, NH, 2005.
- Affective building blocks in positive and negative emotion. Invited speaker, Nobel Conference in Medicine on the Neuroscience of Emotion, Karolinska Institute, Stockholm, Sweden 2005.
- Unconscious emotion processes" Invited symposium commentary, American Psychological Society convention, Los Angeles 2005
- Inside Emotion. Invited Address, Association for Psychological Science convention, Los Angeles, 2005.
- Decision utility in the brain. Invited seminar presentation, Department of Economics, New York University, 2005.