

## Curriculum Vitae

### Kent Charles Berridge

#### Current Position

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

Department of Psychology  
Biopsychology Program  
University-wide Neuroscience Program

#### Address

Department of Psychology  
4014 East Hall (530 Church St.)  
University of Michigan  
Ann Arbor, Michigan 48109-1043 USA

Phone (734) 763-4365  
Email: [berridge@umich.edu](mailto: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

2016- present	James Olds Distinguished University Professor of Psychology and Neuroscience University of Michigan, Ann Arbor
2009 – 2016	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

2013	Visiting scholar, University College London, England Gatsby Computational Neuroscience Unit
2005 -2006	Visiting Professor, University of Cambridge, England Downing College and Department of Experimental Psychology,
2001-2003	Visiting Professor (not in residence), University of Liverpool, England Department of Psychology
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**

\*Grawemeyer Award in Psychology, Charles Grawemeyer Foundation, 2019

\*APA Distinguished Scientific Contributions Award, American Psychological Association, 2016

\* = Co-winner with Terry E. Robinson

AAAS Fellow, American Association for the Advancement of Science, 2011

APA Master Lecturer, American Psychological Association, 2011

Guggenheim Fellow, John Simon Guggenheim Memorial Foundation 2005

APA Fellow, American Psychological Association, appointed 1998 & 2002

Division 3: Experimental Psychology (appointed Fellow 2002)

Division 6: Behavioral Neuroscience & Comparative Psychology (appointed Fellow 1998)

APS 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

James McKeen Cattell Foundation Sabbatical Fellow Award, 1991-1992

APA Distinguished Scientific Early Career Award, American Psychological Association, 1991

### **Teaching Awards, Student-elected Honors, Scholarly Service Awards, & Internet Honors**

Listed among "The 50 most influential living psychologists" by TheBestSchools.org, 2018

<https://thebestschools.org/features/most-influential-psychologists-world/>

Distinguished Lecturer Award, University of North Carolina at Chapel Hill, elected by graduate students in Behavioral Neuroscience program in UNC Department of Psychology, 2012

F1000 Prime, Faculty Member of Year award in Neuroscience, 2011, 2012, & 2016

F1000 Prime (Post-publication Peer Review) Outstanding Faculty Award, 2013 & 2014, & 2017

Honorary member, Golden Key National Honor Society, elected by University of Michigan students, 1995

Excellence in Education Teaching Award, LS&A College, University of Michigan 1991 & 1993

Master Lecturer Award for Teaching, Michigan Psychological Association, 1991

### **Current Research Interests**

Research in my laboratory addresses questions such as:

- How is pleasure generated in the brain?
- How are desire and appetite generated by the brain?
- What causes addiction?
- What are the brain mechanisms of emotion?
- What are the neural bases of reward learning, wanting and liking?
- How does the brain code affective valence (pleasant from unpleasant)?
- How does the neurobiology of fear relate to the neurobiology of desire?
- How does emotion relate to consciousness? Can there be an unconscious emotion?

### **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

**Journal editorial boards:** *Brain and Neurosciences Advances*. **Former:** *Journal of Neuroscience*; *Behavioral Neuroscience*; *Positive Psychology*, *Emotion Review*; *Cognitive, Affective & Behavioral Neuroscience*

**Societies/Foundation roles:** AAAS Psychology section committee elected Member-at-Large; APA Awards Committee member; Fellow of Mind and Life Institute

**Post-Publication Peer Review:** *Faculty of 1000* in Life Sciences and Biomedicine (published online >400 evaluations in *F1000 Prime* since 2005 as Faculty in 1000 Member in Neuroscience Section)

<http://f1000.com/thefaculty/member/2780856232420421>

## Publications

Reprint pdfs are available at: <http://www.lsa.umich.edu/psych/research&labs/berridge/Publications.htm>

PubMed list of publications:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/kent.berridge.1/bibliography/41429105/public/?sort=date&direction=descending>

### Citation statistics:

*Web of Science: total >28,000 citations,  $h \geq 74$  (as of September 2018)*

[http://apps.webofknowledge.com/CitationReport.do?product=WOS&search\\_mode=CitationReport&SID=3F34mkfM6HLX7NGNByj&page=1&cr\\_pqid=3&viewType=summary&colName=WOS](http://apps.webofknowledge.com/CitationReport.do?product=WOS&search_mode=CitationReport&SID=3F34mkfM6HLX7NGNByj&page=1&cr_pqid=3&viewType=summary&colName=WOS)

*Google Scholar: total >51,000 citations,  $h \geq 94$  (as of September 2018)*

<http://scholar.google.com/citations?user=WIRQRN8AAAAJ&hl=en>

*NIH iCite RCR (relative citation ratio - author: Berridge, Kent) mean = 6.06, >95th percentile*

<https://icite.od.nih.gov/analysis>

### Edited Book

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

### Journal Articles and Book Chapters (from newest to oldest)

Berridge, K.C. Affective valence in the brain: modules or modes? *Nature Reviews Neuroscience*, in press.

Cole, S.L., Robinson, M.J.F. & Berridge, K.C. Optogenetic self-stimulation in the nucleus accumbens: D1 reward versus D2 ambivalence. *PLoS ONE*, 13 (11), e0207694 (2018).

Berridge, K. C. Evolving concepts of emotion and motivation. *Frontiers in Psychology*, 9, 1647, 1-20 (2018). doi: 10.3389/fpsyg.2018.01647 PMC6137142

Olney, J.J., Warlow, S.M., Naffziger, E.E. & Berridge, K.C. Current perspectives on incentive salience and applications to clinical disorders. *Current Opinion in Behavioral Sciences*, 22: 59-69, 2018. PMC5831552

Mitchell, M.R., Berridge, K.C., Mahler, S.V. Endocannabinoid-Enhanced "Liking" in Nucleus Accumbens Shell Hedonic Hotspot Requires Endogenous Opioid Signals. *Cannabis & cannabinoid research* 3, 166-170 (2018) PMC6069591

Badiani, A., Berridge, K.C., Heilig, M., Nutt, D.J., & Robinson, T.E. Addiction research and theory: a commentary on the Surgeon General's Report on alcohol, drugs and health. *Addiction Biology*, 23(1):3-5, (2018). PMC5608628

Castro, D. C. & Berridge, K.C. Opioid and orexin hedonic hotspots in rat orbitofrontal cortex and insula. *Proceedings of the National Academy of Sciences*. 114(43), E9125–E9134, (2017). PMC5664503

Warlow, S.M., Robinson, M.J.F. & Berridge, K.C. Optogenetic central amygdala stimulation intensifies and narrows motivation for cocaine. *Journal of Neuroscience*, 37(35), 8330-8348 (2017). PMC5577851

Berridge, K.C. Is addiction a brain disease? *Neuroethics*. 10(1), pp 29-33 (2017). PMC5503469

Holton, R. & Berridge, K. Compulsion and choice in addiction. In. (N. Heather & G. Segal, Eds.) Oxford University Press, pp 153-170. *Addiction and Choice: Rethinking the Relationship* (2017).

Robinson, T.E. & Berridge, K. Beyond Wise et al.: Neuroleptic-induced "anhedonia" in rats: Pimozide blocks reward quality of food. In *Brain and Behavior: Revisiting the Classic Studies*. (B. Kolb & I. Whishaw, Eds.) Sage Publications, pp 190-200, (2017).

- Kringelbach, M.L. & Berridge, K.C. The affective core of emotion: Linking pleasure, subjective well-being, and optimal metastability in the brain. *Emotion Review*, 9(3), 191-199 (2017). PMC560446
- Berridge, K.C. & Robinson, T.E. Liking, wanting, and the incentive-sensitization theory of addiction. *American Psychologist* 71(8), 670-679, (2016). :PMC5171207
- Berridge, K.C. APA Award for Distinguished Scientific Contributions: Kent C. Berridge. *American Psychologist*, 71(8), 667-669, (2016).
- DiFeliceantonio, A.G. & Berridge, K.C. Dorsolateral neostriatum contribution to incentive salience: Opioid or dopamine stimulation makes one reward cue more motivationally attractive than another. *European Journal of Neuroscience*, 43, 1203-1218 (2016). PMC4846486
- Castro, D.C., Terry, R.A., & Berridge, K.C. Orexin in rostral hotspot of nucleus accumbens enhances sucrose 'liking' and intake but scopolamine in caudal shell shifts 'liking' toward 'disgust' and 'fear'. *Neuropsychopharmacology*, 41, 2101-2111 (2016). PMC4908641
- Itoga, C.M., Berridge, K.C. & Aldridge, J.W. Ventral pallidal coding of a learned taste aversion. *Behavioral Brain Research*, 300, 175-183 (2016). PMC4724492
- Song, C., Berridge, K.C., & Kalueff, A.V. "Stressing" rodent self-grooming for neuroscience research. (reply to comment) *Nature Reviews Neuroscience*, 17 591, (2016). PMC5504409
- Kalueff, A.V., Stewart, A.M., Song, C., Berridge, K.C., Graybiel, A.M., & Fentress, J.C. Neurobiology of rodent self-grooming and its value for translational neuroscience. *Nature Reviews Neuroscience*, 17 45-59 (2016). PMC4840777
- Kringelbach, M. L., & Berridge, K. C. (2016). Drive and motivation in the brain. In H. Miller (Ed.), *Sage Encyclopedia of Theory in Psychology* (pp. 240-244). New York, NY: Sage.
- Abridged & reprinted as:
- Kringelbach, M. L. and K. C. Berridge (2016). Neuroscience of Reward, Motivation, and Drive. *Recent Developments in Neuroscience Research on Human Motivation*: 23-35.
- Berridge, K.C. & Kringelbach, M.L. Pleasure systems in the brain. *Neuron*, 86(3), 646-664 (2015). PMC4425246
- Castro DC, Cole SL and Berridge KC (2015) Lateral hypothalamus, nucleus accumbens, and ventral pallidum roles in eating and hunger: interactions between homeostatic and reward circuitry. *Frontiers in Systems Neuroscience* 9:90. doi: 10.3389/fnsys.2015.00090 PMC4466441
- Seeley, R.J. & Berridge, K.C. The hunger games. *Cell*, 160(5):805-806 (2015).
- Robinson, M.J., Burghardt, P.R., Patterson, C.M., Nobile, C.W., Akil, H., Watson, S.J., Berridge, K.C. & Ferrario, C.R. (2015) Individual Differences in Cue-Induced Motivation and Striatal Systems in Rats Susceptible to Diet-Induced Obesity. *Neuropsychopharmacology*, 40, 2113-2123 (2015). PMC4613617
- Robinson, M.J.F., Anselme, P., Suchomel, K., & Berridge, K.C. Amphetamine-induced sensitization and reward uncertainty similarly enhance incentive salience for conditioned cues. *Behavioral Neuroscience*, 129, 502-511 (2015). PMC4540329
- Robinson, M.J.F. & Berridge, K.C.. Wanting vs needing. In *International Encyclopedia of the Social & Behavioral Sciences* (J. D. Wright, Ed.), 2nd edition, Vol 25. Oxford: Elsevier. pp. 351-356 (2015).
- Kringelbach, M.L. & Berridge, K.C. Motivation and pleasure in the brain. In *The Psychology of Desire* (W. Hofmann & L.F. Jördgren, Eds.), NY: Guilford Press, pp. 129-145, (2015).
- Robinson, M.J.F., Warlow, S.M. & Berridge, K.C. Optogenetic excitation of central amygdala amplifies and narrows incentive motivation to pursue one reward above another. *Journal of Neuroscience*, 34(50) 34, 16567-16580 (2014). PMC4261087
- Ho, C.-Y. & Berridge, K.C. Excessive disgust caused by brain lesions or temporary inactivations: mapping hotspots of the nucleus accumbens and ventral pallidum. *European Journal of Neuroscience*, 40, 3556-3572, (2014). PMC4236281

- Castro, D. C. & Berridge, K.C. Opioid hedonic hotspot in nucleus accumbens shell: mu, delta and kappa maps for enhancement of sweetness 'liking' and 'wanting'. *Journal of Neuroscience*, 31: 4239-4250 (2014). PMC3960467
- Robinson, M.J.F., Anselm, P., Fischer, A.M. & Berridge, K.C. Initial uncertainty in Pavlovian reward prediction persistently elevates incentive salience and extends sign-tracking to normally unattractive cues. *Behavioural Brain Research*, 266, 119-130 (2014). PMC4016791
- Dayan, P. & Berridge, K.C. Model-based and model-free Pavlovian reward learning: revaluation, revision and revelation. *Cognitive, Affective, & Behavioral Neuroscience*. 14, 473-492 (2014). PMC4074442
- Berridge, K.C & O'Doherty, J.P. From experienced utility to decision utility. In *Neuroeconomics: Decisions and the brain* (2nd edition). P. Glimcher & E. Fehr (Eds.), Academic Press, pp. 335-354 (2014).
- Holton, R. & Berridge, K. Addiction between compulsion and choice. In *Addiction and self control: Perspectives from philosophy, psychology and neuroscience*. N. Levy (Ed.), Oxford University Press, pp.239-268 (2014).
- Castro, D.C. & Berridge, K.C. Advances in the neurological bases for food 'liking' versus 'wanting'. *Physiology & Behavior*, 136, 22-30, (2014). PMC4246030
- Robinson, M.J.F., Robinson, T.E., Berridge, K.C. Incentive salience in addiction and over-consumption. *The Interdisciplinary Science of Consumption*. S. D. Preston, M.L. Kringelbach, B. Knutson & P.C. Vhybrow (Eds.), MIT Press, pp. 185-198 (2014).
- Hill, J.O., Berridge, K., Avena, N.M., Ziauddeen, H., Alonso-Alonso, M., Allison, D.B., Khan, N.A., & Kelley, M. Neurocognition: The Food–Brain Connection. *Advances in Nutrition*, 5: 544–546, 2014. PMC4188227
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- Ho, C.-Y. & Berridge, K.C. An orexin hotspot in ventral pallidum amplifies hedonic 'liking' for sweetness. *Neuropsychopharmacology*, 38, 1655-1664 (2013). PMC3717533
- Pecina, S. & Berridge, K.C Dopamine or opioid stimulation of nucleus accumbens similarly amplify cue-triggered 'wanting' for reward: entire core and medial shell mapped as substrates for PIT enhancement. *European Journal of Neuroscience*, 37, 1529-1540 (2013). PMC4028374.
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- Berridge, K.C & Kringelbach, M.L. Neuroscience of affect: brain mechanisms of pleasure and displeasure. *Current Opinion in Neurobiology*, 23: 294-303 (2013). PMC3644539
- Robinson, M.J.F., Robinson, T.E., & Berridge, K.C. Incentive salience and the transition to addiction. In *Biological Research on Addiction* (P. Miller, Ed.), Academic Press, pp. 391-399 (2013).
- Richard, J.M., Castro, D.C., DiFeliceantonio, A.G., Robinson, M.J.F. & Berridge, K.C. Mapping brain circuits of reward and motivation: in the footsteps of Ann Kelley. *Neuroscience and Biobehavioral Reviews*. online early (2013) PMC3706488.
- Richard, J.M. & Berridge, K.C. Prefrontal cortex modulates desire and dread generated by nucleus accumbens glutamate disruption. *Biological Psychiatry*, 73:4, 360-370 (2013). PMC3535675
- Berridge, K.C & Kringelbach, M.L. Toward a neuroscience of well-being: implications of insights from pleasure research. In *Human Happiness and the Pursuit of Maximization*. Edited by H. Brockmann & J. Delhey. pp. 81-100, Springer, Netherlands (2013).
- DiFeliceantonio, A. G., Mabrouk, O.S., Kennedy R.T. & Berridge, K.C. Enkephalin surges in dorsal neostriatum as a signal to eat. *Current Biology*, 22, 1-7, online Sep 2012 (2012). PMC3482294
- Richard, J.M. & Berridge, K.C. Prefrontal cortex modulates desire and dread generated by nucleus accumbens glutamate disruption. *Biological Psychiatry*, online Sept 2012 (2012). PMC3535675
- Kringelbach, M.L. & Berridge, K.C. The joyful mind. *Scientific American*, August, 40-45 (2012).

- 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
- Anselme, Patrick, Robinson, M. J.F., Berridge, K.C. Reward uncertainty enhances incentive salience attribution as sign-tracking. *Behavioural Brain Research*, 238, 53-61 (2012).
- 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*, 221(3), 407-426 (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
- Ahmed, S. Avena, N.M., Berridge, K.C. Gearhardt, A. & Guillem, K. Food addiction. In D.W. Pfaff (ed.), *Neuroscience in the 21st Century*. DOI 10.1007/978-1-4614-1997-6\_110 , Springer (2012).
- Berridge, K.C. & Krangelbach, 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
- Krangelbach, 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
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- Krangelbach, M.L. & Berridge, K.C. The Functional Neuroanatomy of Pleasure and Happiness. *Discovery Medicine*, 9(49):579-87, June (2010). PMID: PMC3008353
- Krangelbach, 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 Krangelbach 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 Krangelbach 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)
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- 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)
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**Selected Invited Addresses & Colloquia (2012 - present)**

- Addiction as incentive-sensitization: status and implications. Invited speaker (co-presented with Richard Holton), Princeton Workshop on Drugs and Addiction, Department of Philosophy, Princeton University, 2018.
- Affect and motivation in the brain. Invited colloquium, Department of Psychology, University of Southern California. Los Angeles, 2018.
- Brain limbic generators of delight, desire and dread. Invited Distinguished Speaker lecture, Department of Psychology, University of California at Davis, 2018.
- Liking, wanting & choosing. Invited speaker, 8th Annual Interdisciplinary Symposium on Decision Neuroscience, Society for Neuroeconomics, Ann Arbor, MI 2018.
- Is addiction compulsive? An incentive-sensitization view. Invited symposium speaker, 44<sup>th</sup> Meeting of Society for Philosophy and Psychology, Ann Arbor, MI, 2018.
- Brain systems of chemosensory liking and wanting: roles in addictions. Invited Keynote Givaudan Lecturer, Association for Chemoreception Sciences conference, Bonita Springs, Florida 2018.
- Update on brain mechanisms of liking and wanting for food rewards. Invited speaker, Appetitive Motivation Seminar, Columbia University, New York, N.Y., 2017.
- Understanding addiction from the brain's viewpoint. Invited speaker. Federal Defender Conference - Eastern District of Michigan, Criminal Justice Act Seminar, Detroit Courthouse, Detroit 2017.
- Brain Limbic systems of liking and wanting. Invited seminar, Hotchkiss Brain Institute, University of Calgary, Calgary, Alberta, Canada 2017.
- Limbic mechanisms of delight, desire and dread. Invited Harley Hotchkiss Lecture, Canadian Centre for Behavioural Neuroscience, University of Lethbridge, Lethbridge, Alberta, Canada 2017.
- Brain generators of wanting and liking. Invited colloquium, Department of Psychology, University of British Columbia, Vancouver, Canada 2017.
- Desire beyond reinforcement learning. Invited speaker, Reinforcement Learning and Decision Making conference, Ann Arbor, Michigan, 2017.
- Pleasure & Desire: some wanting & liking issues. Invited speaker, Philosophy of Mind symposium on Pleasure, Reward & Value. Philosophy Department, Brown University, Providence R.I., 2017.
- Emotion and the brain. Invited keynote address for CellPress - NYU Lablinks conference on emotion and the brain, New York University, New York, 2016.
- Brain wellsprings of delight, desire and dread. Invited award address for Distinguished Scientific Contribution Award, American Psychological Association, Denver, 2016.
- Affective Neuroscience of Reward Wanting and Liking. Invited speaker, Affective Neuroscience Symposium, Dartmouth College, Hanover, New Hampshire, 2016
- Affective neuroscience of wanting and liking. Invited speaker, Society for the Study of Motivation annual conference, Chicago, 2016.
- Delight, desire and dread: Generators in the brain. Invited colloquium, Department of Psychology, Cornell University, Ithaca, N.Y., 2016.
- Brain limbic systems for liking and wanting. Invited D.O. Hebb Memorial Lecturer, Psychology & Neuroscience Dept., Dalhousie University, Halifax, Nova Scotia, Canada, 2016.
- Brain mechanisms of 'wanting' and 'liking' in making decisions. Invited speaker, Conference on Emotion and Value-Based Decision Making, Gatsby Computational Neuroscience Centre, University College London, London, UK 2016.
- Neurogastronomy: Understanding the brain mechanisms of food liking and wanting. Invited Annual Distinguished Lecturer, Department of Neurobiology & John B. Pierce Laboratory. Yale University, New Haven, 2015.
- Brain mechanisms of food liking and wanting. Invited colloquium, Department of Decision Sciences, College of Dentistry, and College of Food & Agriculture, Ohio State University, Columbus, 2015.
- Motivation concepts and the brain. Invited keynote colloquium for workshop on 'Motivation: the little concept that could. But did it?', Concordia University, Montreal, Canada 2015.
- Roles of dopamine in motivation versus pleasure. Invited speaker in Symposium on 40 years of Dopamine and Reward, National Institute on Drug Abuse IRP, Baltimore, 2015.
- Pleasure neuroscience: Implications for well-being. Invited speaker in Interdisciplinary Conference on Motivation Science. Columbia University, New York city, 2015.

- Affective neuroscience of reward and motivation: Liking, Wanting, Dread & Disgust. Invited speaker in Motivational Circuits conference, Howard Hughes Medical Institute, Janelia Research Campus, Virginia, 2015.
- Brain limbic modules for reward liking, wanting and emotions. Invited colloquium, Department of Psychology, Emory University, Atlanta, 2015.
- Affective neuroscience of reward: Limbic modules for liking and wanting. Invited Special Lecture, Society for Neuroscience annual meeting, Washington, D.C., 2014.
- Happiness and the brain. Invited IMPACT Symposia lecture, Dedman College Interdisciplinary Institute, Southern Methodist University, Dallas, TX, 2014.
- Brain reward and motivation systems. Invited lecture. National Scientific Council on the Developing Child: Spring Council Meeting. Minneapolis, MN, 2014.
- Brain mechanisms for reward 'liking' versus 'wanting'. Invited colloquium, Neurobiology Seminar Series, University of Chicago, Chicago, 2014.
- Food and the brain: Current perspectives, controversies and misunderstandings of terminology, methodology, and applications. Invited speaker, Symposium on Neurocognition: the food-brain connection, Experimental Biology conference, San Diego, 2014.
- Brain generators of intense wanting and liking. Invited speaker & dialogue participant, Dialogue week with the Dalai Lama on craving, desire and addiction. Dharamsala, Himachal Pradesh, India 2013.
- Desire, delight and dread generators in the brain. Invited colloquium, Department of Psychology, University of Wisconsin, Madison, Wisconsin 2013.
- Brain limbic generators of delight, desire and dread. Invited B.F. Skinner lecturer, Association for Behavior Analysis International, Minneapolis, Minnesota, 2013.
- Brain wellsprings of delight, desire and dread. Invited Deans' Speaker Series colloquium, Department of Psychology, State University of Binghamton, New York, 2013.
- Modeling cue-triggered temptation: new and changing 'wants'. Invited colloquium. Gatsby Computational Neuroscience Unit, Queen Square, University College London, U.K. 2013.
- Brain limbic generators for delight, desire & dread. Invited colloquium, Emotion Club Seminar series, Wellcome Centre for Neuroimaging, University College London, U.K., 2013.
- Brain limbic generators for delight, desire & dread. Invited colloquium, Department of Psychology, University of Sussex, Falmer, Brighton U.K., 2013.
- What's new in limbic-striatal systems of 'wanting' & 'liking'? Invited colloquium, Behavioral Neuroscience Seminar series, Department of Psychology, Cambridge University, Cambridge UK, 2013.
- Pleasure generators in the brain. Invited lecture, Japanese Winter Workshop on the Mechanisms of Brain and Mind (Pleasure & Pain), Rusutso, Hokkaido, Japan, 2013.
- Limbic brain generators of delight, desire & dread. Invited colloquium, Department of Psychology, University of Texas at El Paso, 2012.
- Understanding outcome reward in the brain: experienced utility ('liking'), predicted utility (future prediction), and decision utility ('wanting'). Invited colloquium (Seminar series on Foundations of Human Social Behavior), Department of Economics, University of Zurich, Switzerland, 2012.
- Striatum in reward: from prediction error to incentive salience. Invited public address, The Striatum, Sainsbury/Wellcome/Gatsby public conference, University College London, UK 2012.
- 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.