

**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

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**Education**

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

**Academic Appointments**

|                |  |
|----------------|--|
| 2016- present  | James Olds Distinguished University Professor of Psychology and Neuroscience<br>University of Michigan, Ann Arbor                            |
| 2009 – 2016    | James Olds Collegiate Professor of Psychology and Neuroscience<br>College of Literature, Science and Arts, University of Michigan, Ann Arbor |
| 1995 - present | Professor<br>Department of Psychology, University of Michigan, Ann Arbor   |
| 1990 -1995     | Associate Professor<br>Department of Psychology, University of Michigan, Ann Arbor   |
| 1985 -1990     | Assistant Professor<br>Department of Psychology, University of Michigan, Ann Arbor   |
| 1983 -1985     | Killam, NATO Science, & NIMH Postdoctoral Fellow,<br>Department of Psychology, Dalhousie University, Nova Scotia, Canada                     |

**Visiting Appointments**

|            |   |
|------------|---|
| 2020       | Visiting Fellow, Peterhouse College, University of Cambridge, England   |
| 2019-2020  | Visiting Professor, School of Psychology, University of Sussex, England   |
| 2013       | Visiting scholar, University College London, England<br>Gatsby Computational Neuroscience Unit                              |
| 2005 -2006 | Visiting Professor, University of Cambridge, England<br>Downing College and Department of Experimental Psychology,          |
| 2001-2003  | Visiting Professor (not in residence), University of Liverpool, England<br>Department of Psychology                         |
| 1998-1999  | Chercheur associé (visiting scientist), CNRS Centre Européen des Sciences du Goût,<br>University of Burgundy, Dijon, France |
| 1991-1992  | Visitor (visiting scholar), School of Psychology, University of Birmingham, England   |

### **Selected Academic Honors**

Honorary Doctor of Science degree (D.Sc. Hon.) awarded by University of Sussex, U.K., 2020  
\*Grawemeyer Award in Psychology, Charles Grawemeyer Foundation, 2019  
\*APA Distinguished Scientific Contributions Award, American Psychological Association, 2016  
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  
\* = Co-winner – these awards shared with Terry E. Robinson

### **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/>  
F1000 Prime, Faculty Member of Year award in Neuroscience, 2011, 2012, 2016, & 2018  
F1000 Prime (Post-publication Peer Review) Outstanding Faculty Award, 2013 & 2014, & 2017  
Distinguished Lecturer Award, University of North Carolina at Chapel Hill, elected by graduate students in Behavioral Neuroscience program in UNC Department of Psychology, 2012  
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

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

**Current service roles:** AAAS Psychology section committee elected Member-at-Large

**Post-Publication Peer Review:** *Faculty of 1000* in Life Sciences and Biomedicine (published online >450 evaluations in *F1000 Prime Faculty Opinions* since 2005 as Faculty in 1000 Member in Neuroscience Section) <https://facultyopinions.com/prime/thefaculty/member/2780856232420421>

## Publications

Free reprint pdfs available from my lab Publications site at: <https://sites.lsa.umich.edu/berridge-lab/publications/>

PubMed list of publications:

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

### Citation statistics:

Google Scholar: total >74,000 citations,  $h \geq 110$  (as of November 2021)

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

Web of Science: total >37,000 citations,  $h \geq 85$  (as of November 2021)

[http://apps.webofknowledge.com/CitationReport.do?product=WOS&search\\_mode=CitationReport&SID=3F34mkfM6HLX7NGNByy&page=1&cr\\_pqid=3&viewType=summary&colName=WOS](http://apps.webofknowledge.com/CitationReport.do?product=WOS&search_mode=CitationReport&SID=3F34mkfM6HLX7NGNByy&page=1&cr_pqid=3&viewType=summary&colName=WOS)

### 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)

Baumgartner, H. M., Granillo, M. Schulkin, J., Berridge, K.C. Corticotropin releasing factor (CRF) systems: Promoting cocaine pursuit without distress via incentive motivation. *PLoS ONE* 17(5): e0267345 (2022). PMC9064096

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0267345>

Baldo, B.A & Berridge, K.C. Mapping causal generators of appetitive motivation-hedonic functions in frontal cortex. *Neuropsychopharmacology* 47, 415–416 (2022). PMC8617043

<https://www.nature.com/articles/s41386-021-01154-8>

Berridge, K.C. Is addiction a brain disease? The incentive-sensitization view. Chapter 6 in *Evaluating the Brain Disease Model of Addiction* (Heather, N., Field, M., Moss, A.C., Satel, S.), pp. 74-86, Routledge, N.Y. (2022).

Berridge, K. C., & Dayan, P. Liking – Quick guide. *Current Biology*, 31(24), R1555-R1557, (2021).

<https://doi.org/10.1016/j.cub.2021.09.069>

Baumgartner, H. M., Schulkin, J., & Berridge, K. C. Activating corticotropin releasing factor (CRF) systems in nucleus accumbens, amygdala, and bed nucleus of stria terminalis: Incentive motivation or aversive motivation? *Biological Psychiatry*, 89: 1162–1175 (2021).

<https://doi.org/https://doi.org/10.1016/j.biopsych.2021.01.007> . PMC8178165

Baumgartner, H.M., Naffziger, E.E. , Nguyen D., Berridge, K.C. Incentive Salience in Irrational Miswanting and Extreme Motivation. Chapter in *The Psychology of Extremism* (Kruglanski, A.W., Kopetz, C. Szumowska, E., Eds.), 15-33 (2021).

Warlow, S. M., & Berridge, K. C. Incentive motivation: ‘wanting’ roles of central amygdala circuitry. *Behavioural Brain Research*, 411, 113376 (2021).

<https://doi.org/https://doi.org/10.1016/j.bbr.2021.113376> PMC8238905

Nguyen, D., Naffziger, E.M., Berridge, K.C. Positive affect: nature and brain bases of liking and wanting. *Current Opinion in Behavioral Sciences*, 39:72-78 (2021).

<https://doi.org/10.1016/j.cobeha.2021.02.013> PMCID: PMC7978410

- Berridge, K.C. Commentary on Vandaele and Ahmed: Rethinking habits in addiction. *Neuropsychopharmacology*, 46, 687–688 (2021) DOI: 10.1038/s41386-020-00932-0 PMC8027213 <https://www.nature.com/articles/s41386-020-00932-0>
- Dukes, D., Abrams, K., Adolphs, R., Ahmed, M. E., Beatty, A., Berridge, K. C., et al. The rise of affectivism. *Nature Human Behaviour*, 5(7), 816–820 (2021). <https://doi.org/10.1038/s41562-021-01130-8> PMC8319089 <https://www.nature.com/articles/s41562-021-01130-8>
- Warlow, S.M., Naffziger, E.E. & Berridge, K.C. The central amygdala recruits mesocorticolimbic circuitry for pursuit of sugar, cocaine, or pain. *Nature Communications*, 11(1):2716 (2020). doi: 10.1038/s41467-020-16407-1. PMID: PMC7264246 <https://www.nature.com/articles/s41467-020-16407-1>
- Morales, I. & Berridge K.C. ‘Liking’ and ‘wanting’ in eating and food reward: Brain mechanisms and clinical implications. *Physiology & Behavior*, 113–152 (2020). PMID: PMC7655589 <https://www.sciencedirect.com/science/article/pii/S0031938420304662?via%3Dihub>
- Baumgartner, H.M., Cole, S.L., Olney, J.J., Berridge, K.C. Desire or dread from nucleus accumbens inhibitions: reversed by same-site optogenetic excitations. *Journal of Neuroscience*, 40(13): 2737–2752 (2020) PMID: PMC7096140. <https://www.jneurosci.org/content/40/13/2737>
- Urstadt, K. R. & Berridge, K.C. Optogenetic mapping of feeding and self-stimulation within the lateral hypothalamus of the rat. *PLoS One*, 15 (1), e0224301 (2020). PMC6984703.
- Khan, H.A., Urstadt, K.R., Mostovoi, N.A., & Berridge, K.C. Mapping excessive “disgust” in the brain: Ventral pallidum inactivation recruits distributed circuitry to make sweetness “disgusting” *Cognitive, Affective, & Behavioral Neuroscience*, 20 (1), 141–159 (2020). PMC7018599
- Stark, E., Berridge, K.C. & Kringelbach, M.L. Are we designed to be happy? The neuroscience of making a sense of pleasure. In *The Cambridge Handbook of Evolutionary Perspectives on Human Behavior* (L. Workman, W. Reader & J.H. Barkow, Eds.). Cambridge University Press, pp. 91–96 (2020).
- Berridge, K.C. Affective valence in the brain: modules or modes? *Nature Reviews Neuroscience*, 20, 225–234 (2019). PMC6137142
- Bechara, A., Berridge, K. C., Bickel, W. K., Morón, J. A., Williams, S. B., Stein, J. S. "A Neurobehavioral Approach to Addiction: Implications for the Opioid Epidemic and the Psychology of Addiction." *Psychological Science in the Public Interest*, 20(2): 96–127 (2019).
- Berridge, K.C. A liking and wanting perspective on emotion and the brain. In *Oxford Handbook of Positive Emotion and Psychopathology* (J. Gruber, Ed.). Oxford University Press, pp 184–196 (2019).
- 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). PMC6264872
- 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 *Addiction and Choice: Rethinking the Relationship*, (N. Heather & G. Segal, Eds.) Oxford University Press, pp 153-170(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* 7(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. Jordgren, 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
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- 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).
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- 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).
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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.
- Richard, J.M., Plawecki, A.M. & Berridge, K.C. Nucleus accumbens GABAergic inhibition generates intense eating and fear that resists environmental retuning and needs no local dopamine. *European Journal of Neuroscience*, 37, 1789-1802 (2013). PMC3672387
- 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.
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- 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).

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- 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).
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- 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

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**Selected Invited Addresses & Colloquia (2014 – present; Most recent listed first)**

- Brain Bases of Delight, Desire and Dread. Invited in-person plenary address, Society of Biological Psychiatry annual conference, New Orleans, Louisiana, 2022.
- Limbic generators of delight, desire and dread. Invited virtual colloquium Max Plankt Institute, University of Tübingen, Germany, 2021.
- Brain Generators of Delight, Desire and Dread. Invited in-person colloquium, Neuroscience Program, Florida State University, Florida 2021.
- Delight, Desire and Dread. Invited in-person lecture, Sage Center for study of Mind and Brain, University of California at Santa Barbara, 2021.
- Drug addiction and the neurobiology of desire. Invited virtual seminar, Neuroscience Program, University of Tennessee, Knoxville, 2021.
- Brain Systems of Delight, Desire and Dread. Invited virtual keynote colloquium, Department of Neurobiology, Physiology, and Behavior, University of California at Davis, 2021.
- Update on Liking and Wanting in Food Rewards. Invited virtual keynote address, 45<sup>th</sup> annual conference of British Feeding and Drinking Group, Leeds, UK, 2021.
- Delight, Desire and Dread. Invited virtual colloquium, Department of Psychology, University of Pennsylvania, Philadelphia, 2021.
- Brain Systems of Pleasure and Addiction. Invited keynote virtual speaker, 28<sup>th</sup> Puerto Rico Neuroscience Conference, 2020.
- Brain Generators of Delight, Desire and Dread. Invited virtual speaker, Psychiatry Grand Rounds lecture, New York Medical College – Westchester, 2020.
- Pleasure and Addiction. Invited virtual speaker, Psychology Club, Eton College, UK, 2020.
- Brain Generators of Delight, Desire and Dread. Invited virtual speaker, Psychiatry Grand Rounds lecture, University of California at San Diego, 2020.
- Can 'Wanting' Detach from 'Liking' and from Predictions of 'Liking'? Invited seminar, Institute of Philosophy, University of London, U.K., 2020
- Motivation, pleasure and pain: latest developments. Invited lecture (in *The Agony and the Ecstasy: An afternoon with Kent Berridge and Frederick Toates* event sponsored by The Open University at the London School of Economics, U.K., 2020.
- Brain mechanisms of liking and wanting food rewards. Invited speaker, Rowett Institute, University of Aberdeen, Scotland, U.K., 2020.
- The Incentive-Sensitization model of obesity. Invited speaker, 5<sup>th</sup> NeuroMi (Neuroscience Milan) International Meeting: Food for Brain. Milan, Italy, 2019.
- Brain generators of delight, desire and dread. Invited colloquium, Institute of Psychology, Friedrich-Alexander Universität, Erlangen, Nuremberg, Germany 2019.
- Liking and wanting in the brain. Invited colloquium, School of Psychology, University of Sussex, Falmer, Brighton, England 2019.
- Brain generators of liking and wanting. Invited speaker, Neurosciences Graduate Program, University of California at San Diego, 2019.
- Incentive-Sensitization Theory of Addiction. Invited Grawemeyer Award Public Lecture (with Terry Robinson), University of Louisville, Louisville, Kentucky, 2019.
- Liking and wanting in the brain. Invited inaugural Distinguished Spence Lecture, Iowa Neuroscience Institute & Department of Psychology, University of Iowa, 2019
- 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.