

## Curriculum Vitae

### Kent Charles Berridge

#### Current Position

The 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](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

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, 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 and Student-elected Honors**

Excellence in Education Teaching Award  
    College of Literature, Science and the Arts, University of Michigan (awarded twice)  
Master Lecturer Award for Teaching, Michigan Psychological Association  
Honorary member of Golden Key National Honor Society, elected by University of Michigan students

### **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.

### **Editorial Boards:**

**Journals:** *Journal of Neuroscience*; *Behavioral Neuroscience*; *Cognitive, Affective & Behavioral Neuroscience*; *Emotion Reviews*; *Journal of Positive Psychology*; *International Journal of Eating Disorders*; *Frontiers in Behavioral Neuroscience*

**Online:** *Faculty of 1000 in Biology* (Behavioral Neuroscience Section Member)  
<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), 2009. Amazon link: <http://www.amazon.com/Pleasures-Affective-Science-Morten-Kringelbach/dp/0195331028>

### Journal Articles and Book Chapters

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).

Kringelbach, M.L. & Berridge, K.C. Toward a functional neuroanatomy of pleasure and happiness. *Trends in Cognitive Sciences*, 808, doi:10.1016/j.tics.2009.08.006 (2009).

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).

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).

Berridge, K.C. 'Liking' and 'wanting' food rewards: brain substrates and roles in eating disorders. *Physiology & Behavior*, 97(5):537-50 (2009).

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).

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). PMC2606924

Berridge, K.C. Wanting and Liking: Observations from the Neuroscience and Psychology Laboratory. *Inquiry*, 52:4, 378-398 (2009).

Aldridge JW, Berridge KC: 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 (2009).

Smith KS, Mahler SV, Pecina S, Berridge KC: 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 (2009).

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).

- Berridge K.C., Zhang J., Aldridge J.W. Computing motivation: Incentive salience boosts of drug or appetite states [comment on Redish et al. (2008)]. *Behav Brain Sci* 2008 31(4):440 -441 (2008).
- Smith, K.S., & Berridge, K.C.. Opioid limbic circuit for reward: interaction between hedonic hotspots of nucleus accumbens and ventral pallidum. *Journal of Neuroscience*, 27(7): 1594-605 (2007).
- Mahler, S.V., Smith, K.S., and Berridge, K.C. Endocannabinoid hedonic hotspot for sensory pleasure: Anandamide in nucleus accumbens shell enhances 'liking' of a sweet reward. *Neuropsychopharmacology*, 32, 2267-2278 (2007).
- 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.
- Berridge, K.C. Just rewards (Paths of discovery feature). In Bear, M.F., Connors, B.W., and Paradiso, M.A., *Neuroscience: Exploring the Brain*, 3rd Edition, p. 525 (2007).
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- Britton JC, Taylor SF, Berridge KC, Mikels, J.A. and Liberzon I. Differential subjection and psychophysiological responses to socially and nonsocially generated emotional stimuli. *Emotion*, 6(1): 150-155, 2006.
- 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).
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- Peciña, S. and Berridge, K.C. Hedonic hotspot in nucleus accumbens shell: Where do mu opioids cause increased hedonic impact of sweetness? *Journal of Neuroscience*, 25(50):11777–11786 (2005).
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- 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.
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- Berridge, K.C. & Aldridge, J.W. Super-stereotypy II: Enhancement of a complex movement sequence by intraventricular dopamine D1 agonists. *Synapse*, 37, 205-215, 2000.
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### **Selected Invited Addresses & Colloquia (2005-2009)**

- 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 Lecture, 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, 20<sup>th</sup> 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 2<sup>nd</sup> 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.