

**Athena Aktipis**  
Arizona State University  
Assistant Professor  
Department of Psychology

**Curriculum Vitae**  
Last Updated: 7/16/2015

University of California, San Francisco  
Director of Human and Social Evolution  
Center for Evolution and Cancer

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### Current Positions

2010-present University of California San Francisco, Center for Evolution and Cancer, Director of Human and Social Evolution  
2011-present Arizona State University, Department of Psychology, Assistant Professor  
2012-present Johns Hopkins, Center for Advanced Modeling in the Social, Behavioral and Health Sciences, External Faculty

### Education

2008-2011 University of Arizona, Ecology and Evolutionary Biology, Post-doctoral Fellow  
2003-2008 University of Pennsylvania, PhD in Psychology  
2004 University of Pennsylvania, Masters Degree in Psychology  
1998-2002 Reed College, Psychology Department, BA, Phi Beta Kappa

### Past Affiliations

2009-2011 Arizona State University, Decision Center for a Desert City, Consultant  
2010 (Spring) University of Pennsylvania, Department of Psychology, Adjunct Professor  
2009 (Summer) Wistar Institute, Visiting Scientist  
2002-2003 Portland State University, Course Developer/Instructor for Agent Based Simulation  
1999 University of Arizona Economic Science Laboratory, Visiting Scholar

### Publications (google scholar h-index: 15)

1. **Aktipis, C. A.**, Boddy, A., Jansen, G., Hochberg, M., Maley, C., Hibner, U., Wilkinson, G. (2015). Cancer across life: Cooperation and cheating in multicellularity. *Philosophical Transactions of the Royal Society B*. Published online June 8 DOI: 10.1098/rstb.2014.0219
2. Boddy, A., Kokko, H., Breden, F., Wilkinson, G. **Aktipis, C. A.**, (2015). Cancer susceptibility and reproductive tradeoffs: A model of the evolution of cancer defenses. *Philosophical Transactions of the Royal Society B*. Published online June 8 DOI: 10.1098/rstb.2014.0220
3. Brown, J., Aktipis, C.A., Inclusive fitness effects can select for cancer suppression into old age. *Philosophical Transactions of the Royal Society B*. Published online June 8 DOI: 10.1098/rstb.2015.0160
4. **Aktipis, C.A.**, Ellis, B.J., Nishimura, K., Hiatt, R.A., (2014). Modern reproductive patterns associated with estrogen receptor positive but not negative breast cancer susceptibility. *Evolution, Medicine, and Public Health* (2014): eou028.
5. Hidaka, B. H., Asghar, A., **Aktipis C.A.**, Nesse, R.M., Wolpaw, T.M., Skursky, N.K., Bennett, K.J., Beyrouy, M.W., Schwartz, M.D. (2015). The status of evolutionary medicine education in North American medical schools. *BMC medical education* 15(1): 38.
6. Jansen, G., Gatenby, B., **Aktipis, C.A.** (2015). Control vs. eradication: Adopting strategies from infectious disease treatment to cancer. *Proceedings of the National Academy of Sciences of the United States of America* 112.4 937.
7. Hao, Y., Cronk L., Armbruster, D., **Aktipis, C.A.** (2014). Need-based transfers on a network: A model of risk-pooling in ecologically volatile Environments
8. **Aktipis, C.A.**, Ellis, B.J., Nishimura, K., Hiatt, R.A., (2014). Modern reproductive patterns associated with estrogen receptor positive but not negative breast cancer susceptibility. *Evolution, Medicine, and Public Health* (2014): eou028.

9. Jansen, G., and **Aktipis, C.A.** (2014). Resistance Is Mobile: The Accelerating Evolution of Mobile Genetic Elements Encoding Resistance. *Journal of Evolutionary Medicine*. Vol. 2, Article ID 235873, doi:10.4303/jem/235873
10. Alcock, J., Maley, C.C., **Aktipis, C.A.** (2014). Is eating behavior manipulated by the gastrointestinal microbiota? Evolutionary pressures and potential mechanisms. *Bioessays*. Online publication 8/7/14
11. Bryant, G, **Aktipis C. A.** (2014). The animal nature of spontaneous human laughter. *Evolution and Human Behavior*. Online publication 3/31/2014
12. **Aktipis, C. A.**, Boddy, A., Brown, J., Gatenby, R, Maley C. C. (2013). Life history tradeoffs in cancer evolution. *Nature Reviews Cancer*, 13, 883-892.
13. **Aktipis, C.A.**, Nesse, R. (2013). Evolutionary foundations for cancer biology. *Evolutionary Applications*. 6(1) 144-159.
14. Sprouffske, K, **Aktipis, C. A.**, Radisch, J.P., Carroll, M, Nedulcu, A. M., Maley, C. C. (2013). An evolutionary explanation for the presence of cancer non-stem cells in neoplasms. *Evolutionary Applications*. 6(1) 92-101.
15. **Aktipis, C.A.**, Maley, C.C., Pepper, J. W. (2012). Dispersal evolution in neoplasms: The role of deregulated metabolism in the evolution of cell motility. *Cancer Prevention Research*. 5(2) 266-275
16. **Aktipis, C. A.**, Kwan, V.S.Y., Johnson, K. A., Neuberg, S.L., Maley, C.C. (2011) Overlooking evolution: A systematic analysis of cancer relapse and therapeutic resistance research. *PLoS ONE* 6(11): e26100. doi:10.1371/journal.pone.0026100
17. **Aktipis, C.A.** (2011). Is cooperation viable in mobile organisms? Simple Walk Away strategy favors the evolution of cooperation in groups. *Evolution and Human Behavior* 32(4) 263-276.
18. **Aktipis, C. A.**, Cronk, L., De Aguilar, R. (2011). Risk-pooling and herd survival: An agent-based model of a Maasai gift-giving system. *Human Ecology* 39(2) 131-140.
19. **Aktipis, C.A.**, Fernandez-Duque, E. (2011). Parental investment without kin recognition: Simple rules for parent-offspring behavior. *Behavioral Ecology and Sociobiology* 65(5) 1079-1091.
20. **Aktipis, C.A.**, Thompson-Schill, S. (2010) Positive assortment for peer review. *Adaptive Behavior*, 18(5) 448-450.
21. Phillips-Silver, J., **Aktipis, C.A.**, Bryant, G. 2010. The ecology of entrainment: Foundations of coordinated rhythmic movement. *Music Perception* 28 (1) 3-14. NIHMSID # 289838
22. Bendick, R., Dahlin, K.M., Smoliak, S., Kumler, L., Jones, S., **Aktipis, C.A.**, Fugate, E., Hertog, R., Moberg, C., Scott, D. 2010. Choosing carbon mitigation strategies using ethical deliberation. *Weather, Climate and Society*, 2(2), 140-147.
23. **Aktipis, C.A.** 2006. Recognition memory and the evolution of cooperation: How simple strategies succeed in an agent-based world. *Adaptive Behavior*, 14, 239-247.
24. Kurzban, R.; **Aktipis, C. A.** 2007. Modularity and the social mind: Are Psychologists too self-ish? *Personality and Social Psychology Review*, 11(2), 131-149.
25. **Aktipis, C.A.** 2004. Know when to walk away: Contingent movement and the evolution of cooperation. *Journal of Theoretical Biology*. 231(2), 249-260.
26. **Aktipis, C. A.**; Kurzban, R.O. 2004. Is *Homo economicus* extinct? Vernon Smith, Daniel Kahneman and the Evolutionary Perspective. *Evolutionary Psychology and Economic Theory, Advances in Austrian Economics*, 7, 135-153
27. Wakeland, W.W.; Gallaher, E.J; Macovsky, L.M.; **Aktipis, C. A.** 2004. A comparison of system dynamics and agent based simulation applied to the study of cellular receptor dynamics. *37<sup>th</sup> Annual Conference of the Hawaii International Complex System Society*, January 2004.
28. **Aktipis, C. A.** 2000. The effect of behavioral assortment on selection dynamics: Externalities, information processing and subjective commitment. Eilis Boudreau and Carlo Maley, eds., *Proceedings of the Artificial Life VII Workshops*, 90-93.
29. **Aktipis, C. A.** 2000. An evolutionary perspective on consciousness: The role of emotion, theory of mind and self-deception. *The Harvard Brain: Journal of Mind, Brain and Behavior*, 7, 29-34.

### Book Chapters and Other Contributions

1. Greaves, M., **Aktipis C. A.** (in press). Cancer in the modern world: Does mismatch with our ancestral environment enhance cancer risk? *Frontiers in Cancer Research*.
2. Schiffman, J. D., White, R. M., Graham, T. A., Huang, Q, **Aktipis, C. A.** (in press) The Darwinian dynamics of motility and metastasis. *Frontiers in Cancer Research*.

3. **Aktipis, C.A.**, Maley, C.C. (2011) The self-ish cell: Cancer's emerging evolutionary paradigm. *Evolution and Medicine Review* (August 9). <http://evmedreview.com/?p=764>.
4. **Aktipis, C. A.**, Maley, C. C., & Neuberg, S. L. (2010). Psychological barriers to evolutionary thinking in medicine. *Evolution and Medicine Review* (Feb 24). <http://evmedreview.com/?p=231>
5. **Aktipis, C. A.** 2010. Book review of 'Why we cooperate' by M. Tomasello. *Journal of Artificial Societies and Social Simulation* 13(3) <http://jasss.soc.surrey.ac.uk/13/3/reviews/7.html>
6. **Aktipis, C.A.** 2008. When to Walk Away and when to stay: Cooperation evolves when agents can leave unproductive partners and groups. *Dissertation*.
7. Kurzban, R.; **Aktipis, C. A.** 2007b. On detecting the footprints of multilevel selection. Gangestad, S. W. & J. A. Simpson (Eds.) *Evolution of Mind: Fundamental Questions and Controversies*. New York: Guilford, 226-232.
8. Kurzban, R. O., **Aktipis, C. A.** 2006. Modular minds, multiple motives. Shaller, M; Simpson, J & Kenrick, D. (Eds.) *Evolution and Social Psychology*, 39-53. New York: Psychology Press.

### Manuscripts and papers under review

1. **Aktipis, C.A.**, Cronk, L., De Aguilar, R (submitted, *Evolution and Human Behavior*). Cooperation in an uncertain world: Need-based transfers outperform account keeping in volatile environments.
2. Alcock, J, **Aktipis, C. A.**, Boddy, A, Day, T, Flinn, M.V., Hochberg, M.E. Jansen, G., Read, A., Maley, C. (in prep) Identifying normal function in abnormal results: Reaction norms in medical practice.
3. Krems, J., **Aktipis, C. A.** (in prep). The paradox of female prosociality: Cooperation and competition among female non-kin.
4. **Aktipis, C. A.**, Fales, M., Haselton, M. (in prep). Female reproductive aggression and the evolution of concealed ovulation.
5. Li, Y., Pirlott, A., **Aktipis, C.A.** (in prep). Female intra-sexual competition and verbal derogation.
6. Hess, N., **Aktipis, C.A.** (in prep). Cooperation and conflict among female affines: An evolutionary analysis and systematic review
7. **Aktipis, C. A.** *Evolution in the flesh: Cancer and the transformation of life*. Princeton University Press.
8. **Aktipis, C. A.** (in prep). The evolution of conditional movement in cancer cells

### Recent Public Outreach

- 2014 Interviewed for National Public Radio, New York Times, ABC News and many other media outlets after publication of "Is eating behavior manipulated by the gastrointestinal microbiota? Evolutionary pressures and potential mechanisms."
- 2014 Public lecture at the Institute for Advanced Study in Berlin (Wissenschaftkolleg) "Cancer Evolution" on April 2: <http://www.wiko-berlin.de/wikotheek/lectures-on-film/2014-c-athena-aktipis-andrew-read/>
- 2014 Interviewed for March 28 Newsweek article about evolutionary approaches to cancer treatment: <http://mag.newsweek.com/2014/03/28/war-against-cancer-alternative-cancer-treatments.html>
- 2014 Interviewed on National Public Radio about cooperation in cancer and among humans (March): <http://www.wnyc.org/story/trbq-why-do-we-share/>

### Selected Invited Presentations

- 2014 *Invited talk, Symposium on Evolution and Cancer*, Lisbon, Portugal, June 24  
Cancer and the evolution of somatic cheating
- 2013 *Invited talk, Striking a moving target: Challenges and chances for immunotherapy of cancer*, May 26-27, Munich, Germany  
Evolution of metastasis and immune evasion
- 2013 *Invited talk, Ecological and Evolutionary Perspectives on Cancer conference*, Roscoff, France  
Challenges and opportunities in the evolution and ecology of cancer, Nov 3
- 2013 *Invited talk, American Association for Cancer Research*, DC, April 10

- Evolution under resource limitation: Models of motility and metastasis
- 2013 *Chapman Keynote Research Lecture*, Kansas University Medical Center, April 5  
Fundamental questions in cancer evolution: Knowns and unknowns
- 2013 *Grand Rounds, Evolutionary Medicine Month*, UCLA, February 6  
Evolutionary foundations for cancer biology
- 2012 *National Academy of Science Chinese-American Kavli Frontiers of Science Symposium*, Oct 11-14.  
Solving the paradox of breast cancer susceptibility: Evolution and estrogen receptors
- 2011 *Evolution and Extravagant Altruism Speaker Series*, U Mich., Institute for Social Research, Jan 9  
Beyond reciprocity and kin selection: Is it time to rethink the foundations of cooperation theory?
- 2011 *The Theory of Cooperation Workshop*, August 11-13, Adelboden, Switzerland.  
The evolution of cooperation across domains: Simple rules and complex social organization
- 2010 *Society for Personality and Social Psychology*, Evolutionary Preconference, Las Vegas, Jan 28,  
Walk the Walk: Models of mobility and the evolution of cooperation
- 2009 Plenary address at *European Social Simulation Association Conference*, U Surry, Sept 14-18  
The simplicity of cooperation: Conditional movement rules promote cooperation
- 2009 *UCLA Center for Behavior Evolution and Culture*, May 27.  
Walking Away from the Haystack: Conditional movement and the evolution of cooperation
- 2009 *Institute for Advanced Study, Princeton University*, April 20.  
Social norms and simple rules: Agent-based models of cooperation
- 2008 *Principles of Repurposing Workshop, Santa Fe Institute*, July 14-16.  
Decentralized redesign: Insights from principles in the evolution of cooperation

### Professional Activities

- 2012-15 Scientific advisor, Science of Sharing, Exploratorium museum in San Francisco
- 2012-15 Associate editor, Journal of Evolutionary Medicine
- 2013-14 Fellow representative, Institute for Advanced Study, Wissenschaftskolleg, Berlin
- 2013 Organizer, Second Biannual Evolution and Cancer Conference, UCSF, June 13-16
- 2012-14 National Evolutionary Medicine Education working group member, National Evolutionary Synthesis Center
- 2012-14 Executive board member, Institute for Drug Resistance
- 2012-14 Associate editor, Journal of Evolutionary Medicine
- 2012 Guest editor, Evolutionary Applications special issue, Evolution and Cancer
- 2011 Organizer, First Biannual Evolution and Cancer Conference, UCSF, June 3-6
- 2010-15 Ad hoc reviewer for PLOS One
- 2010-15 Ad hoc reviewer for Journal of Evolutionary Psychology
- 2006-15 Ad hoc reviewer for Journal of Theoretical Biology
- 2005-15 Ad hoc reviewer for Current Anthropology
- 2004-15 Ad hoc reviewer for Adaptive Behavior
- 2004-15 Ad hoc reviewer for Evolution and Human Behavior
- 2006 Guest editor for special issue of Adaptive Behavior on the Evolution of Cooperation
- 2000 Organizer, Cooperation and Multi-level Selection workshop at Artificial Life VII Conference and editor of proceedings

### Awards/Honors

- 2013-14 Fellow at the Institute for Advanced Study, Berlin, Wissenschaftskolleg
- 2012 National Academy of Science Kavli Fellow
- 2011 Distinguished Alumni Award, Willowbrook
- 2002 State Finalist, Rhodes Scholarship
- 2002 Phi Beta Kappa Honor Society, Reed College
- 2002 Commendation for Academic Excellence, Reed College
- 2001 Udall Scholarship (declined due to conflict with attendance at Max Plank Institute, Berlin)
- 2000 Honorable mention, Udall foundation
- 1999 Commendation for Academic Excellence, Reed College

### Current Grants

1. Application of Evolutionary Principles to Maintain Cancer Control PQ21 (NIH/NCI R01CA170595-01, Dr. Robert Gatenby PI) Aktipis is co-Investigator with \$94,796 direct/yr 1, \$369,408 direct/yr 1-4
2. Genomic and Microenvironmental Diversity as Drivers of Metastasis in DCIS PQC3 (NIH/NCI, R01 Drs. Carlo Maley and Shelley Hwang Co-PIs) Aktipis is co-Investigator with funding of \$9,087, direct/yr 1, \$36,348, total direct/yr 1-4, 4/1/14-3/31/18
3. Breakthrough Award DoD/Breast Cancer Research Program Genomic and Microenvironmental Diversity as Drivers of Progression in DCIS (Drs. Carlo Maley and Shelley Hwang Co-PIs) Aktipis is co-investigator with funding of \$11,516, direct/yr 1 \$ 58,690 total direct/yr 1-5 6/1/14-5/31/19
4. Generous by Nature: The Human Generosity Project. Templeton Foundation. Drs. Athena Aktipis and Lee Cronk Co-PIs, Aktipis funding is \$241,623 total direct/yr 1, \$740,609 total direct/yr 1-3 7/1/14-7/1/17.

### Pending Grants

1. Hazards SEES: Managing Hazards Through Cooperative Interactions: Resilience Through Need-Based Transfers in Multi-scale Complex Systems, National Science Foundation. Role: Co-PI total direct/yr 1-5, \$946,873.

### Past Grants

1. Modeling the causes and consequences of the evolution of cell motility in neoplasms (NIH F32 CA144331, Dr. Aktipis, PI, with funding of \$156,000 5/1/2010- 5/1/2013)
2. Modeling neoplastic progression in Barrett's esophagus (R01 CA140657, Drs. Pepper and Maley, Co-PIs) NIH 7/1/09-6/30/10, Role: Postdoctoral Fellow
3. Exploring the applicability of the osotua sharing rule to address fragmented water governance in Arizona, 2010 (Decision Center for a Desert City, Arizona State University Dr. Aktipis, PI, \$42,000)
4. Russell Ackoff Research Grant, Wharton Risk Management and Decision Processes Center, U Penn, 2005 (Dr. Aktipis, PI, \$2,200)
5. Graduate Research Fellowship, National Science Foundation 2003-2007 (approx. \$150,000)

### Workshop Travel Grants

2013 Evolutionary Medicine Education Working Group, National Evolutionary Synthesis Center  
2013 Catalysis meeting on Evolutionary and Social Science Approaches to Human Cooperation, National Evolutionary Synthesis Center  
2012 National Academy of Sciences, Chinese-American Kavli Frontiers of Science Symposium  
2011 National Academy of Sciences, Sackler Colloquium: Biological Embedding of Early Social Adversity  
2010 National Academy of Sciences, Sackler Colloquium: In the Light of Evolution V: Cooperation  
2009 NSF Microbes to Metazoans: Regulation, Dynamics and Evolution of Social Behavior Workshop, Georgia Institute of Technology  
2009 Illinois Biology and Politics Summer Institute, University of Illinois  
2008 NSF Debating Science Program, Center for Ethics Workshop, University of Montana  
2005 Institute for Humane Studies, Summer Workshop on Human Nature and Social Change, U Virginia  
2001 Summer Institute on Bounded Rationality, Max Planck Institute, Berlin  
2000 NIH Complexity in Evolutionary Biology course, U Knoxville  
2000 NIH Mathematics and Biological Complexity course, U Knoxville  
1999 Economic Science Laboratory, Experimental Economics Graduate Student Workshop U Arizona  
1999 American Psychological Association Summer Science Institute, UC Berkeley

### Education and Teaching Experience

2012 **Faculty, Evolutionary Medicine Summer School at Mt. Desert Island Biological Lab**  
Lecturer on evolution and cancer, discussion leader  
2010 **Adjunct Professor, U Penn Dept. of Psychology**  
Prosocial Behavior course, teaching and course preparation for new course  
2005 **Teaching Assistant, U Penn Dept. of Psychology**

- 2005-06 Introduction to Psychology course, teaching, exam design and grading  
**Instructor, Institute for Research in Cognitive Science, U Penn**
- 2004 Undergraduate Summer Workshop in Cognitive Science, teaching  
**Teaching Assistant, U Penn Dept. of Psychology**
- 2002-2003 Animal Behavior course, teaching, exam design and grading  
**Instructor and Course Developer, Portland State U, Systems Science Department**
- 1999-2003 Agent-based simulation course, teaching and course prep. for graduate level course  
**Intern, Advocates for Women in Science, Engineering and Mathematics (AWSEM)**
- 1999 Teaching and lab design for weekly club meeting of grade school, middle school and high school students. The AWSEM program is a vertical mentoring system designed to encourage young women to pursue careers in the sciences.  
**Tutor, Score Prep**
- 1998 Tutor for Score Prep, company specializing in preparing high school juniors for the SAT.  
**Educator, Illinois Energy Education Development (ILEED)**
- Environmental educator at Dupage County recycling center.

### **Conferences / Invited Presentations (last 5 years)**

#### **International:**

- 2014 Symposium on Evolution and Cancer, Champalimaud Foundation, June 24, Lisbon, Portugal  
Invited Talk: Cancer and the evolution of somatic cheating
- 2014 Striking a moving target: Challenges and chances for immunotherapy of cancer, May 26-27, Munich Germany  
Invited Talk: Evolution of metastasis and immune evasion
- 2013 Evolutionary and Ecology Perspectives in Cancer, Nov 3, Roscoff, France  
Invited Talk: Challenges and opportunities for evolutionary and ecological approaches to cancer
- 2013 Institute for Cancer Research, UK, June 25  
Invited Talk: Applying ecology to cancer
- 2011 The Theory of Cooperation workshop, August 11-13, Adelboden, Switzerland  
Invited Talk: The evolution of cooperation across domains: How simple rules give rise to complex social organization
- 2009 Evolution, Cooperation and Rationality Conference, University of Bristol, Sept 18-20  
Poster: Is self-interest the state of the world? The ability to Walk Away promotes the evolution of cooperation
- 2009 European Social Simulation Association Conference, University of Surry, Sept 14-18  
Plenary address: The simplicity of cooperation: Conditional movement rules promote cooperation

#### **National:**

- 2015 University of Arizona, Ecology and Evolutionary Biology Seminar Series, April 13  
Talk: Cancer as cheating in the foundations of multicellular cooperation
- 2015 International Society for Evolution, Medicine and Public Health, ASU, March 21  
Talk: Cancer as somatic cheating: Resource acquisition and monopolization in multicellularity and cancer
- 2015 University of California, Davis, Animal Behavior Seminar Series, March 13  
Talk: Need-based transfers across cooperative systems
- 2014 Harvard University, Human Evolutionary Biology Seminar Series, Nov 13  
Talk: Cooperation and sharing across systems: From human sharing to multicellularity
- 2014 University of New Mexico, Department of Psychology Seminar Series, Nov 3  
Talk: Beyond tit-for-tat: Computational models of human sharing and the evolution of sociality
- 2013 Second International Biannual Evolution and Cancer Conference, UCSF June 12-16, From Unicellularity to Multicellularity and Back Again  
Public talk: Is cancer a Darwinian demon?  
Talk: Evolutionary life history tradeoffs in cancer  
Conference organizer: Brought theoretical evolutionary biologists and social scientists together with cancer researchers to address cancer from an evolutionary perspective
- 2013 Evolution and Comparative Oncology Mini-Symposium, University of Utah, May 7  
Invited Talk: Evolutionary foundations for cancer biology

- 2013 American Association for Cancer Research, DC, April 10  
Invited Talk: Evolution under resource limitation: Models of motility and metastasis
- 2013 Synthesizing the Evolutionary and Social Science Approaches to Human Cooperation catalysis meeting, National Evolutionary Synthesis Center, Durham NC, April 6  
Invited Talk: Generosity or reciprocity: Resource transfers and risk pooling
- 2013 Chapman Keynote Research Lecture, Kansas University Medical Center, April 5  
Keynote address: Fundamental questions in cancer evolution: Knowns and unknowns
- 2013 Kinetic Theory for the Emergence of Complex Behavior in Social and Economic Systems Workshop, University of Arizona, February 22-24  
Invited Talk: Cooperation through decentralized movement and sharing norms
- 2013 Grand Rounds, Evolutionary Medicine Month, UCLA, February 6  
Invited Grand Rounds Speaker: Evolutionary Foundations for Cancer Biology
- 2012 Human Behavior and Evolution Society, University of New Mexico, June 13-17  
Talk: Generosity without reciprocity, part 1: Computational models of need-based transfers and risk pooling  
Talk: Generosity without reciprocity, part 2: Need-based transfers and reciprocity in a risk-pooling game (presented by Lee Cronk)  
Talk: The animal nature of spontaneous human laughter (presented by Greg Bryant)  
Talk: Can a reduction in ovulation cues be the result of inter-female aggression? Testing alternative hypotheses for the evolution of concealed ovulation in a simulated ancestral environment (presented by Melissa Fales)
- 2012 American Anthropological Association, San Francisco, November 14-18  
Talk: Generosity without debt, part 1: Computational models of risk pooling through need-based transfers  
Talk: Generosity without debt, part 2: Need-based transfers in a risk-pooling game (presented by Lee Cronk)
- 2012 National Academy of Science Chinese-American Kavli Frontiers of Science Symposium, Oct 11-14  
Poster: Solving the paradox of breast cancer susceptibility: Evolution and Estrogen Receptors
- 2012 Designing Drugs that Last, American Academy of Microbiology, Philadelphia, July 22-24
- 2012 Evolutionary Medicine Symposium, Stanford University, May 8  
Invited Talk: The evolution and ecology of metastasis: Can we control cancer by targeting dispersal evolution?
- 2012 Challenges of Complexity Speaker Series, Arizona State University, February 23  
Talk: Generosity without reciprocity: Computational models of risk-pooling and sharing norms in human societies
- 2011 Evolution and Extravagant Altruism Speaker Series, University of Michigan, Institute for Social Research, January 9  
Invited Talk: Beyond reciprocity and kin selection: Is it time to rethink the foundations of cooperation theory?
- 2011 National Academy of Science, Sackler Colloquium: Biological Embedding of Early Social Adversity, Irvine, Dec 8-10  
Poster: Is early adversity a risk factor for hormone negative breast cancer? (with Bruce J. Ellis, Katherine Nishimura and Robert A. Hiatt)
- 2011 UCSF Breast Oncology Program Seminar Series, November 28, 2011  
Talk: Evolutionary medicine for breast cancer: Can evolutionary life history theory explain differential risk factors associated with hormone receptor status?
- 2011 UCLA Health Psychology Seminar Series, October 19  
Talk: Breast Cancer Susceptibility from an Evolutionary and Social Perspective
- 2011 Economic Sciences Association, Chicago, October 7-10  
Talk: Emergence of risk sharing in a stochastic environment. Economic Sciences Association, Chicago (talk presented by Steve Gazzillo)
- 2011 Evolution and Medicine Workshop, Mount Desert Island Biological Laboratory, August 5-7  
Talk: Evolutionary medicine for breast cancer: Revisiting the environmental mismatch hypothesis
- 2011 Human Behavior and Evolution Society, Montpelier, June 29-July 4  
Talk: Breast cancer from a life history perspective
- 2011 First International Evolution and Cancer Conference, UCSF, June 3-5

- Talk: An evolutionary life history perspective on breast cancer  
Conference organizer: Brought theoretical evolutionary biologists and social scientists together with cancer researchers to address cancer from an evolutionary perspective
- 2011 Evolutionary Genomics Seminar, Stanford, June 1  
Talk: Evolution and cancer: harnessing evolution to reduce cancer mortality
- 2011 Ecology and Evolutionary Biology Seminar, UCLA, April 12  
Talk: Cooperation in a spatial world: Simple rules favor the evolution of sociality and conditional movement
- 2011 Resilience conference, Arizona State University, March 12-15  
Talk: Resource management and risk pooling: Exploring the viability of indigenous solutions for modern resource management problems
- 2011 Breast Oncology Program Retreat, UCSF, Jan 27-28.  
Poster: Identifying opportunities for evolutionary thinking in breast cancer
- 2011 National Academy of Science, Sackler Colloquium: The evolution of cooperation, Irvine, Jan 8-9.
- 2010 Biocomplexity XI: The evolution of cooperation, Indiana University, Dec 3-5.  
Invited talk: The evolution of metastasis
- 2010 Frontiers in Cancer Prevention Research, Philadelphia, PA, Nov 7-10  
Poster: Conceptual barriers in cancer prevention research
- 2010 Evolution Conference, Portland State University, OR, June 25-29  
Talk: The evolution of metastasis
- 2010 Cancer as a Dynamical System, Arizona State University, June 2-4.  
Invited Talk: Playing games with cancer
- 2010 American Association for Cancer Research, Washington DC, April 17-21.
- 2010 Understanding Cancer via the Theoretical Sciences, Princeton, April 15-16.
- 2010 Physical sciences – oncology network investigators meeting, National Harbor, MD, April 5-7
- 2010 Center for Social Dynamics and Complexity, Arizona State University, April 1.  
Invited talk: Social evolution and cancer
- 2010 Water Governing and Risk Pooling Workshop, Arizona State University, March 29  
Workshop organizer: Planned workshop, and coordinated talks, discussions and activities
- 2010 Society for Personality and Social Psychology, Evolutionary Preconference, Las Vegas, Jan 28  
Invited Talk: Walk the walk: Models of mobility and the evolution of cooperation
- 2009 Microbes to Metazoans: Social Behavior and Evolution Symposium, Georgia Tech, Dec 2-4  
Poster: Conditional movement and the emergence of social structure in the evolution of Cooperation
- 2009 H. Lee Moffitt Cancer Center, Tampa, Nov 11  
Invited Talk: The evolution of metastasis
- 2009 Society for Philosophy and Psychology, University of Indiana, June 12-14  
Poster: Do we need complex cognition for the evolution of cooperation? Implications of conditional movement
- 2009 Human Behavior and Evolution Society, UC Fullerton, May 28- 31  
Talk: Is group selection viable for highly mobile organisms? Rethinking the assumptions of standard group selection models
- 2009 UCLA Center for Behavior Evolution and Culture, May 27  
Invited talk: Walking Away from the Haystack: Conditional movement favors the evolution of cooperation in groups
- 2009 Group as Individual Conference, Arizona State University, April 30-May 2  
Talk: Walking Away from the Haystack: Conditional movement enhances the stability of cooperative groups and promotes the evolution of cooperation
- 2009 Institute for Advanced Study, Princeton University, April 20  
Invited talk: Social norms and simple rules: Agent-based models of cooperation
- 2009 Center for Social Dynamics and Complexity, Arizona State University, April 16  
Invited talk: Walking Away from the Haystack: How conditional movement favors the evolution of cooperation.