Updated: February 2025

AMY M. BODDY

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CURRICULUM VITAE

RESEARCH INTERESTS

I am a human biologist and evolutionary theorist with an interest in applying evolutionary and ecological theory to human health and disease. My work is multidisciplinary and uses a combination of genomics, comparative biology, and evolutionary theory to understand life history trade-offs between survival and reproduction across different levels of biological organization. Active research topics include (1) Comparative oncology and the evolution of cancer defenses across the tree of life; (2) Life history trade-offs in cancer, with a focus on early life adversity and cancer outcomes, and (3) Maternal-fetal conflict in maternal health, including studies on microchimerism and maternal tolerance during pregnancy, the immunology of breastfeeding, and maternal health and behavior postpartum.

PROFESSIONAL APPOINTMENTS

2021 -	Associate Professor, Department of Anthropology, University of California, Santa Barbara
2017 - 2021	Assistant Professor, Department of Anthropology, University of California, Santa Barbara
2016 - 2017	Assistant Research Professor, Biodesign Institute, Arizona State University
2014 - 2016	Postdoctoral Fellow, Arizona State University
2013 - 2014	Postdoctoral Fellow, University of California, San Francisco

EDUCATION

Ph.D. 2006 - 13	Wayne State University - School of Medicine, Molecular Biology & Genetics
B.S. 2003 – 05	Wayne State University, Biology
A.A. 2000 – 03	Macomb Community College, Liberal Arts

AFFILIATED MEMBER

2022 - present	Center for Aging and Longevity, University of California, Santa Barbara
2018 - present	Broom Center for Demography, University of California, Santa Barbara

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AFFILIATED MEMBER (CONT.)

2018 -present	Board Member, International Society for Evolution, Ecology, and Cancer
2018 -present	Board Member, Science Ambassador Scholarship, Cards Against Humanity
2020 -present	Board Member, Exotic Species Cancer Research Alliance
2018 - 2023	Arizona Cancer and Evolution (ACE) Center, Co-leader
2015 - 2017	Center for Evolution and Medicine, Arizona State University
2013 - 2015	Center for Evolution and Cancer, University of California San Francisco
2013 - 2014	Guest in the Cancer Evolution Work Group at The Institute for Advanced Study in Berlin (Wissenschaftskolleg)

FELLOWSHIPS

2012	Wayne State University Provost Fellowship for Computational Biology
2011	Wayne State University Provost Fellowship for Computational Biology

ACADEMIC HONORS & AWARDS

2024-26	Pahl Scholar, The Pahl Center for the Study of Critical Social Issues. From Disbelief to Trust: Examining Prenatal Care Practices to Eliminate Medical Gaslighting ($50,000)
2023	Distinguished Faculty Teaching Award, University of California, Santa Barbara
2020	UCSB Faculty Career Development Award. Maternal-Fetal Crosstalks: Investigating the Role of Maternal Immune Tolerance and Fetal Microchimerism in Maternal Health and Disease. $7,500
2020	Nominee – Packard Fellowship, University of California, Santa Barbara
2018	Nominee – Pew Biomedical Scholars, University of California, Santa Barbara
2016	Postdoctoral Award Finalist - Human Behavior and Evolution Society
2015	Postdoctoral Award Finalist - Human Behavior and Evolution Society
2009	Wayne State University School of Medicine Travel Award
2008	Summer Institute in Statistical Genetics - University of Washington Travel Award
2007	Cold Spring Harbor Travel Award: Clinical Cardiovascular Genomics Conference
2005	Graduated Cum Laude with B.S. from Wayne State University

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SUBMITTED/PREPRINT PUBLICATIONS

In Prep — Hove C, Gurven M, Trumble B, Stieglitz J, Rodriguez DE, Suarez IM, Kaplan H, Blackwell AD*, **Boddy AM***. Female reproductive state and ecological conditions impact the magnitude of sex differences in immune stats across the lifespan. *co-senior author

Preprint — Kapsetaki SE, Compton ZT, Rupp SM, Duke EG, **Boddy AM**, Harrison TM, Aktipis A, Maley CC. The ecology of cancer prevalence across species: Cancer prevalence is highest in desert species and high tropic levels.

Submitted — Minias, P, Corthay A, Colchero F, Lemaître JF, Maille L, Conde D, Pavard S, Dujon A, Ujvari B, Thomas F, **Boddy AM**, Maley CC, Chevallier D, Sepp T, Pradea T, Giraudeau M. Immunological surveillance against cancer. 2024

Submitted — Maley CC, **Boddy AM**, Nedelcu AM, Aktipis A. Multicellular cooperation and the hallmarks of cancer: A new foundation. 2024

PEER-REVIEWED PUBLICATIONS

43. Kapsetaki SE, Basile AJ, Compton ZT, Rupp SM, Duke EG, **Boddy AM**, Harrison TM, Sweazea KL, Maley CC. The relationship between diet, plasma glucose, and cancer prevalence across vertebrates Accepted & In Press. Nature Communications. 2025

42. Parmeggiani C, Sallinger K, Cleaves II HJ, **Boddy AM**. The duality of microchimerism and cancer in parous women: a review and evolutionary perspective. 2024. Seminars in Immunopathology. Vol 47. pp 1-19

41. Dujon AM, **Boddy AM**, Hamede R, Ujvari B, Thomas F. Beyond Peto's paradox: expanding the study of cancer resistance across species. Evolution. 2025 (79.11). pp 6-10

40. Seyedi S, Harris VK, Kapsetaki SE, Saha D, Compton Z, Yousefi R, May A, Fakir E, **Boddy AM**, Gerlinger M, Wu C, Mina L, Huijben S, Gouge DH, Cisneros L, Ellsworth PC, Maley CC. Resistance management for cancer: Lessons from farmers. Cancer Research. (2024) 84 (22): 3715–3727

39. Compton Z, Harris V, Mellon W, Rupp S, Kapsetaki SE, Wilmot M, Kennington R, Noble K, Baciu C, Ramirez L, Peraza A, Martins B, Sushil S, Aksoy S, Furukawa, Vincze O, Giraudeau M, Duke EG, Spiro S, Flach E, Davidson H, Zehnder A, Graham TA, Troan B, Harrison TM*, Tollis M*, Schiffman JD*, Aktipis A*, Abegglen LM*, Maley CC*, **Boddy AM***. Cancer prevalence across vertebrates. Cancer Discovery. 2024. *Co-senior authors

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38. Kapsetaki SE, Compton ZT, Mellon W, Vincze O, Giraudeau MT, Harrison TM, Abegglen LM, **Boddy AM**, Maley CC, Schiffman JD. Germline mutation rate predicts cancer mortality across 37 vertebrate species. EMPH. 2024. eoae016

37. Kapsetaki SE, Compton ZT, Dolan J, Harris VK, Mellon W, Rupp SM, Duke EG, Harrison TM, Aksoy S, Giraudeau M, Vincze O, McGraw KJ, Aktipis A, Tollis M, **Boddy AM***, Maley CC*. Life history traits and cancer prevalence in birds. EMPH. 2024. 12(1), 105-116. *Co-senior authors

36. Giraudea M, Aktipis A, Conde DA, Baines C, **Boddy AM**, Bramwell G, Colchero F, Degregori J, Dujon A, Gentes S, Hamede R, Harris V, Lair S, Le Loc'h G, Lemaitre JF, Lemberger K, Lerebours A, Maley CC, Malkocs T, Padilla Morales B, Panabieres C, Pavard S, Roche B, Sayag D, Sepp T, Thomas F, Ujvari B, Urrutia A, Vincze O, Chevallier D. Methods to study wildlife cancer. Journal of Animal Ecology. 2024.

35. Willig F, Torpy FJ, Harrison SH, Duke EG, Troan B, **Boddy AM**, Abegglen LM, Harrison TM. Evaluation of Neoplasia, Treatments and Survival in Lizard Species. Animals. 2024. 7;14(10):1395

34. Hove CM, Chua KJ, Martin MA, Hubble M, **Boddy AM**. Variation in maternal lactation practices associated with changes in diurnal maternal inflammation. Scientific Reports. 2024. 14(1), 4376

33. Ferraro E, Harrison SH, Duke E, Troan B, **Boddy AM**, Abegglen LM, Harrison T M, Retrospective study of the prevalence, histopathology, therapy, and survival time of neoplastic disease in fish. Animals. 2024

32. Sengupta, J, Kroneis T, **Boddy AM**, Roy R, Sarkar A, Sarkar D, Ghosh D, Huppertz B. Sperm intrusion into the implantation-stage blastocyst and its potential biological significance. EMPH. 2024. 12(1), 1-6

31. Kapsetaki SE, Fortunato A, Compton Z, Rupp SM, Nour Z, Riggs-Davis S, Stephenson D, Duke EG, **Boddy AM**, Harrison T M, Maley CC, Aktipis A. Is chimerism associated with cancer across the tree of life? PloS one 18.6 (2023): e0287901

30. AbdulJabbar K, Castillo SP, Hughes K, Davidson H, **Boddy AM**, Abegglen LM, Murchison EP, Graham TA, Spiro S, Palmieri C, Yuan Y. Bridging clinic and wildlife care with AI-powered pan-species computational pathology. Nature Communications. 14.1 (2023): 2408.

29. **Boddy AM**, Rupp S, Yu Z, Hanson H, Aktipis A, Smith K. Early life adversity, reproductive history, and breast cancer risk. Evolution, Medicine and Public Health. 10.1 (2022): 429-438.

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28. Abegglen LM, Harrison TM, Moresco A, Fowles JS, Troan BV, Kiso WK, Schmitt D, **Boddy AM**, Schiffman JD. Of elephants and other mammals: A comparative review of reproductive tumors and potential impact on conservation. Animals. (2022): 12(15), 2005.

27. Dujon AM, Boutry J, Tissot S, Lemaitre JF, **Boddy AM**, Gerard A, Alvergne A, Arnal A, Vincze O, Nicolas D, Giraudeau M, Telonis-Scott M, Schultz A, Pujol P, Biro P, Beckmann C, Hamede R, Roche B, Ujvari B, Thomas F. Cancer susceptibility as a cost of reproduction and contributor to life history evolution. Frontiers in Ecology and Evolution. 10 (2022): 861103.

26. Natterson-Horowitz B, **Boddy AM**, Zimmerman, D. Female Health Across the Tree of Life: Insights at the Intersection of Women's Health, One Health and Planetary Health. PNAS nexus 1.2 (2022): pgac044.

25. Vincze O, Colchero F, Lemaitre JF, Conde D, Pavard S, Bieuville M, Urrutia AO, Ujvari B, **Boddy AM**, Maley CC, Thomas F, Giraudeau M. Cancer risk across mammals. Nature. 601.7892 (2022): 263-267.

24. Tollis M, Ferris E, Campbell M, Harris V, Rupp S, Harrison T, Kiso WK, Schmitt D, Aktipis A, Maley C, **Boddy AM**, Yandell M, Sciffman JD, Abegglen LM. Elephant genome reveal accelerated evolution in mechanisms underlying disease defenses. Molecular Biology and Evolution. 38.9 (2021): 3606-3620.

23. Ujvari B, Dujon A, Aktipis A, Alix-Panabières C, Amend S, **Boddy AM**, Brown J, Capp JP, DeGregori J, Ewald P, Gatenby R, Gerlinger M, Giraudeau M, Hamede R, Hansen E, Kareva I, Maley CC, Marusyk A, McGranahan N, Metzger M, Nedelcu A, Noble R, Nunney L, Pienta K, Polyak K, Pujol P, Read A, Roche B, Sebens S, Solary E, Stanková K, Thomas F, Ewald HS. Identifying key questions in the ecology and evolution of cancer. Evolutionary applications 14.4 (2021): 877-892.

22. Gunst A, Sudén M, Korja R, **Boddy AM**, Kotler J, Paavonen EJ, Karlsson L, Karlsson H, Antfolk J. Postpartum depression and mother-offspring conflict over maternal investment. Evolution, Medicine and Public Health. 9.1 (2021): 11-23.

21. **Boddy AM**, Harrison T, Abegglen LM. Comparative Oncology: New Insights into an ancient disease. Iscience. (2020): 101373.

20. **Boddy AM**, Abegglen LM, Pessier AP, Schiffman JD, Maley CC, Witte C. Lifetime cancer prevalence and life history traits in mammals. Evolution, Medicine and Public Health. (2020): 187-195.

19. Campenni M, May AN, **Boddy AM**, Harris V, Nedelcu AM. Agent-based modelling reveals strategies to reduce the fitness and metastatic potential of circulating tumour cell clusters. Evolutionary Applications. March 2020. 13.7 (2020): 1635-1650.

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18. Somarelli JA, **Boddy AM**, Gardner H, Bartholf DeWitt S, Tuyohy J, Megquier K, Sheth MU, Hsu D, Thorne JL, Eward WC. Improving cancer drug discovery by studying cancer across the tree of life. Molecular Biology and Evolution 37.1 (2020): 11-17.

17. Somarelli JA, Gardner H, Cannataro VL, Gunady EF, **Boddy AM**, Johnson NA, Fisk JN, Gaffney SG, Chuang JH, Li S, Ciccarelli FD. Molecular biology and evolution of cancer: from discovery to action. Molecular Biology and Evolution, 2020. 37(2), 320-326.

16. Aktipis A, Cronk L, Alcock J, Ayers JD, Baciu C, Balliet D, **Boddy AM**, Curry OS, Krems JA Muñoz A, Sullivan D. Understanding cooperation through fitness interdependence. Nature Human Behaviour. 2018 Jul;2(7):429.

15. Maley CC, Aktipis A, Graham TA, Sottoriva A, **Boddy AM**, Janiszewska M, Silva AS, Gerlinger M, Yuan Y, Pienta KJ, Anderson KS, Gatenby R, Swanton C, Posada D, Wu CI, Schiffman JD, Hwang ES, Polyak K, Anderson ARA, Brown JS, Greaves M, Shibata D. Classifying the evolutionary and ecological features of neoplasms. Nature Reviews Cancer. 2017. 17.10:605-619

14. **Boddy AM**, Montgomery SH, Harrison PW, Caravas JA, Raghanti MA, Phillips KA, Mundy NI, Wildman DE. Evidence of a conserved molecular response to selection for increase brain size in primates. Genome biology and evolution 9 (3). 2017.

13. Diaz-Munoz S, **Boddy AM**, Dantas G, Waters CM, and Bronstein JL. Contextual organismality: beyond pattern to process in the emergence of organisms. Evolution. 70.12 (2016): 2669-2677

12. Hidaka, Brandon H, and **Boddy AM**. Is estrogen receptor negative breast cancer risk associated with a fast life history strategy? Evolution, medicine, and public health. 2016. 17-20

11. **Boddy AM**, Fortunato A, Wilson Sayres M, Aktipis A. Fetal microchimerism and maternal health: A review and evolutionary analysis of cooperation and conflict beyond the womb. Bioessays. 2015. Oct 1;37(10):1106-18.

10. **Boddy AM**, Kokko H, Breden F, Wilkinson GS, Aktipis CA. Cancer susceptibility and reproductive trade-offs: a model of the evolution of cancer defences. Phil. Trans. R. Soc. B. 2015. 20140220.

9. Aktipis CA, **Boddy AM**, Jansen G, Hibner U, Hochberg ME, Maley CC, Wilkinson GS. Cancer across the tree of life: cooperation and cheating in multicellularity. Phil. Trans. R. Soc. B. 2015: 20140219.

8. Aktipis CA, **Boddy AM**, Gatenby RA, Brown JS, Maley CC. Life history tradeoffs in cancer evolution. Nat Rev Cancer. 2013. 13(12):883-92.

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7. Sterner KN, McGowen M, Chugani H, Tarca A, Sherwood CC, Hof PR, Kuzawa, CW, **Boddy AM**, Raaum RL, Weckle A, Lipovich L, Grossman LI, Uddin M, Goodman M, Wildman DE. Characterization of human cortical gene expression in relation to glucose utilization. Am J Hum Biol. 2013. 25(3):418-30.

6. Sterner KN, Chugani HT, Tarca AL, Sherwood CC, Hof PR, Kuzawa CW, **Boddy AM**, Raaum RL, Weckle A, Gregoire L, Lipovich L, Grossman LI, Uddin M, Goodman M, Wildman DE. Dynamic gene expression in the human cerebral cortex distinguishes children from adults. PLoS ONE. 2012. 7(5):e37714.

5. **Boddy AM**, McGowen MR, Sherwood CC, Grossman LI, Goodman M, Wildman DE. Comparative analysis of encephalization in mammals reveals relaxed constraints on anthropoid primate and cetacean brain scaling. J Evol Biol, 2012. 21(10):981-94277.

4. Hinterseher I, Erdman R, Donoso LA, Vrabec TR, Schworer CM, Lillvis JH, **Boddy AM**, Derr K, Golden A, Bowen WD, Gatalica Z, Tapinos N, Elmore JR, Franklin DP, Gray JL, Garvin RP, Gerhard GS, Carey DJ, Tromp G, Kuivaniemi H. The role of complement cascade in abdominal aortic aneurysms. Arterioscler Thromb Vasc Biol. 2011. 31(7):1653-60.

3. Sherwood CC, Raghanti MA, Stimpson CD, Spocter MA, Uddin M, **Boddy AM**, Wildman DE, Bonar CJ, Lewandowski AH, Philips KA, Erwin JM, Hof PR. Inhibitory interneurons of the human prefrontal cortex display conserved evolution of the phenotype and related genes. Proc. R. Soc. B, 2010. 277(1684):1011-20.

2. Elmore JR, Obmann MA, Kuivaniemi H, Tromp G, Gerhard GS, Franklin DP, **Boddy AM**, Carey DJ. Identification of a genetic variant associated with abdominal aortic aneurysms on chromosome 3p12.3 by genome wide association. J Vasc Surg. 2009. 49:1525-31.

1. **Boddy AM**, Lenk GM, Lillvis JH, Nischan J, Kyo Y, Kuivaniemi H. Basic research studies to understand aneurysm disease. Drug News and Perspectives. 2008. 21(3):142-8.

BOOK CHAPTERS AND OTHER CONTRIBUTIONS

12. **Boddy AM** and Ågren JA. Clinical implications of the paradox of the organism. Edited volume Paradox of the Organisms. Eds: Manus Patten, Arvid J Ågren. In press Harvard University Press. 2025

11. **Boddy AM**. The need for evolutionary theory in cancer research. European Journal of Epidemiology (2022). 1-6.

10. Marques C, Compton Z, **Boddy AM**. Connecting paleopathology and evolutionary medicine to cancer research: past and present. Evolving Health: Paleopathology and Evolutionary Medicine: An Integrated Approach, Oxford University Press. 2022. 239.

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9. **Boddy AM**, Abegglen LM, Aktipis A, Schiffman JD, Maley CC, Witte C. Does placental invasiveness lead to higher rates of malignant transformation in mammals? Evolution, Medicine and Public Health. (2020): 215-216.

8. **Boddy AM**, Huang W, Aktipis A. Life History Trade-offs in Tumors. Current PathoBiology Reports. 2018. 6:201-207.

7. Tollis M, **Boddy AM**, Maley CC. Peto's paradox: how evolution solved the problem of cancer prevention. BMC Biology. 201715 (1) 60.

6. Tollis M, Schiffman JD, **Boddy AM**. Evolution of cancer suppression as revealed by comparative genomics. Current Opinion in Genetics & Development 42 (2017): 40-47

5. Harris VK, Schiffman JD, **Boddy AM**. Evolution of cancer defense mechanisms across species. In: The Ecology and Evolution of Cancer. Eds: Ujvari, Roche, Thomas. Elsevier. 2017.

4. Fortunato A, **Boddy AM**, Mallo D, Aktipis A, Maley CC, Pepper JW. Natural Selection in Cancer Biology: From molecular snowflakes to trait hallmarks. CSH Perspectives in Medicine. 7 (2) 2017.

3. Chowell D, **Boddy AM**, Mallo D, Tollis M, Maley CC. When (distant) relatives stay too long: implications for cancer medicine. Genome biology. 2016. Feb 24;17(1):1.

2. Nischan J, Lenk GM, **Boddy AM**, Lillvis JH, Tromp G, Kuivaniemi H. Abdominal aortic aneurysms – a complex genetic disease. In: Aneurysms: Types, Risks, Formation and Treatment, Nova Science Publishers, Inc., Hauppauge, NY. E Morel E and Laurent A, eds. 2009.

1. Kuivaniemi H, **Boddy AM**, Lillvis JH, Nischan J, Lenk GM, Tromp G. Abdominal aortic aneurysms are deep, deadly and genetic. In: Aortic Aneurysms, New insights into an old problem. Liege University Press, Liege, Belgium. Sakalihasan N, Kuivaniemi H, and Michel JB, eds. 2008; 299-323.

ACTIVE GRANTS/FUNDING

4. UCSB ISBER Health Equity Initiative. Immunophenotyping maternal cells in a longitudinal pregnancy cohort, 2024. $16,725

3. UCSB Equity in Mental Health Mini Grant. Art Loves Science: Showcasing the art of reproductive biology. 2024-2025. $1,000

2. John Templeton Foundation: We All Are Multitudes: the Microchimerism, Human Health and Evolution Project. $5,339,697 total. Boddy is Co-leader; $1,099,188 total to UCSB. 2021-2026. Grant ID: 62214

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1. UCSB Interdisciplinary Humanities Center for the IHC Faculty Collaborative Award. Art Loves Science, Science Loves Art a Reproductive Biology Showcase. 2023-2024. $500.

COMPLETED GRANTS/FUNDING

14. NIH U54: Arizona Cancer Evolution Center. Applying models of evolution to cancer across scales, from species down to cells. $7,500,000 total direct. Boddy is Co-Leader Project 1. $263,024 total directs to UCSB. 2018-2023.
13. NIH U54: ACE Pilot Funding. Oncogenic mutational signatures in cancer-like phenotypes in Acropora. Boddy is Co-I. $14,680 total direct. 2021-2022.
12. NIH U54: ACE Pilot Funding. Molecular evolution of immunity, reproduction and cancer genes in crocodilians. Boddy is Co-PI. $13,500 total direct. 2021-2022.
11. NIH U54: ACE Pilot Funding. Molecular evolution of immunity, reproduction and cancer genes in crocodilians. Boddy is Co-PI. $13,500 total direct. 2021-2022.
10. NIH U54: ACE Pilot Funding. Prevalence of reproductive cancers in nonhuman primates. Boddy is Co-PI. $7,350 total direct. 2021-2022.
9. NIH U54: ACE Pilot Funding. Of pan-species histology and macroecology: chasing a solution to Peto's paradox across mammals. Boddy is Co-I. $12,000 total direct. 2021-2022.
8. National Science Foundation. Graduate Research Fellowship Program. Pregnancy-induced inflammation and obstacles to breastfeeding success in an industrialized environment. $30,934 total direct. Boddy is Co-PI with student Carmen Hové. 2019-202
7. University of California Santa Barbara, Academic Senate Grant. The functional role of fetal microchimerism in maternal health. $11,513 total direct. Boddy is PI. 2020
6. NIH U54: Administrative Supplement. Characterization of Elephant Tumor Evolution. $38,180 total direct. Boddy is Co-PI. 2019-2020.
5. NIH U54: ACE Pilot Funding. Phenotypic and Genomic Responses to DNA Damage in Crocodilians. Boddy is Co-PI. $8,000 total direct. 2019-2020.
4. NIH U54: ACE Pilot Funding. Somatic Mutations in Tumors from Wild African Elephants. Boddy is Co-PI. $25,155 total direct. 2019-2020.
3. University of California - Cancer Research Coordinating Committee. Think Biology: Healthy teen lifestyles and cancer prevention. Boddy is Co-I. $66,941 total direct. 2019-2020.

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COMPLETED GRANTS/FUNDING (CONT.)

2. NIH U54 ACE Pilot Funding. WCON: Wildlife Cancer Observation Network. Boddy is Co-PI. $12,000 total direct. 2018-2019

1. NIH U54 ACE Pilot Funding. Cancer Prevalence and Neoplastic Cell Evolution in Nonhuman animals. Boddy is Co-PI. $39,440 total direct. 2018-2019

COMMITTEES/SERVICE

Department and University Service

2024 - present	Chair, Evolutionary Anthropology/Anthropology of Health Job Search
2024 - present	Committee Member, Diversity, Equity and Inclusion, Department of Anthropology, UCSB
2024	Member, Career Development Award Committee, UCSB
2024	Member, Distinguished Teaching Award Committee, UCSB
2022 - present	Chair, Integrative Anthropological Science Unit, Department of Anthropology, UCSB
2022 - present	Executive Committee Member, Department of Anthropology, UCSB
2023 - 2024	Advisory Committee, Institute for Social Behavior and Economic Research, UCSB
2021 - 2022	Chair, Undergraduate Committee, Department of Anthropology, UCSB
2020 - 2021	Committee Member, Development Committee, Department of Anthropology, UCSB
2020 - 2021	Chair, Lab Manager/Visiting Assistant Professor Job Search, Department of Anthropology
2018 - 2020	Chair, Colloquium Committee, Department of Anthropology, UCSB
2017 - 2020	Committee Member, Website Development, Department of Anthropology, UCSB

Organized Workshops and Conferences

2025	Scientific Program Committee, Evolutionary Biology and Ecology of Cancer Summer School, Wellcome Connecting Science, June 30 - July 3rd, 2025. Hinxton, United Kingdom
2024	Panel Organizer and Speaker: Microchimerism and human health: Bridging the gaps between anthropology and medicine American Association of Biological Anthropologist (AABA), Los Angeles CA

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2024	Faculty Organizer, California Workshop on Evolutionary Social Sciences, May 3-4, Santa Barbara, CA
2022	Program Committee, International Society for Evolution, Medicine and Public Health, July 5 – 8, 2022. Lisbon, Portugal
2022	Scientific Program Committee, Evolutionary Biology and Ecology of Cancer Summer School, Wellcome Connecting Science, June 13-17, 2022. Hinxton, United Kingdom
2020*	Scientific Program Committee, Evolutionary Biology and Ecology of Cancer Summer School, Wellcome Genome Campus, June 29-July 3, 2020. *cancelled due to COVID19
2019	Invited participant, Workshop on strategic planning "Comparative Genomics and Evolution" NHGRI/NSF, Bethesda, MD August 16-17.
2017	Co-Organizer, International Society for Evolution, Ecology, and Cancer, Arizona State University, Tempe, AZ
2015	Co-Organizer, Third Biannual Evolution and Cancer Conference, University of California San Francisco
2013	Co-Organizer, Second Biannual Evolution and Cancer Conference, University of California San Francisco
2010	Chair, Graduate Student Research Day, Wayne State University School of Medicine
2009	Sponsorship Committee, Graduate Student Research Day, Wayne State University School of Medicine
2009	Summer Undergraduate Research Director, Wayne State University School of Medicine
2008-09	Co-Chair, Summer Undergraduate Research Program, Wayne State University School of Medicine

TEACHING

Anth 5	Introduction to Biological Anthropology (Fall 2024)
Anth 250AB	Professional Development (Spring 2024)
Anth 203	Race, Racism and Anti-Racism (Spring 2022, 2023)
Anth 150	Human Genetics, UCSB (Fall 2019, Winter 2022, Winter 2024)
Anth 177AB	Reproductive Ecology and Endocrinology, UCSB (Fall 2018, Winter 2021, Winter 2023)
Anth 171	Evolutionary Medicine, UCSB (Winter 2018, 2019, 2020, 2025; Spring 2021, 2022, 2023, 2024)
Anth 9	Human Behavioral Sciences and Methods, UCSB (Spring 2018, Fall 2020, 2021)

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TEACHING (CONT.)

Anth 250A	Graduate Seminar: Advanced Topics in Evolutionary Medicine, UCSB (Spring 2018, Fall 2021)
Anth 241A	Findings in BioAnth, UCSB (Fall 2019, Winter 2020, Fall 2021, Winter 2021, Spring 2021)
Lecturer	Comparative Methods: Evolutionary Biology and Ecology of Cancer, Wellcome Genome Campus (Summer 2016, 2018, 2020*) *cancelled due to COVID19
Bio 494/591	The Evolution and Ecology of Cancer, Arizona State University Winter 2016, Teaching Assistant

MENTORSHIP

Postdoctoral Scholars

2022 - 2025	Kristine Chua, Anthropology, University of California Santa Barbara (Currently at Notre Dame)
2019 - 2022	Tiffany Pan, Anthropology, University of California Santa Barbara (Currently at University of Washington)

Primary Advisor - Graduate

2023-	Janine Klein, Anthropology, University of California Santa Barbara MA Project: *Primate health and behavior*
2022-	Cristiano Parmeggiani, Anthropology, University of California Santa Barbara MA Project: *Placenta evolution and cancer prevalence across mammals*
2019- 2022	Maya Szafraniec, Anthropology, University of California Santa Barbara MA Project: *Maternal-fetal conflict and placentation*
2018- 2022	Carmen Hové, Anthropology, University of California Santa Barbara PhD Project: *Pregnancy-induced inflammation and obstacles to breastfeeding success in an industrialized environment*

Research Technician

2022-2023	Nikki Torno, University of California Santa Barbara Project: *Lab technician for the microchimerism study*

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*Primary Advisor – Undergraduate Interns**

*Research assistants supported by external funds, URCA Grant denotes student received UCSB funding for project

2024-	Manya Weissfeld, University of California Santa Barbara Project: *Immunophenotyping pregnancy*
2024-	Sarah Mestan, University of California Santa Barbara Project: *Immunophenotyping pregnancy*
2023-	Brynn Shapiro, University of California Santa Barbara Project: *Characterization of fetal microchimerism in maternal blood*
2022-2024	Emilie Risha, University of California Santa Barbara, URCA Grant Project: *Characterization of fetal microchimerism in maternal blood*
2020-2023	Mary Boyd, University of California Santa Barbara Project: *Cancer Across Animals in the London Zoo*
2020-2022	Olivia Mendoza, University of California Santa Barbara Project: *Cancer Across Animals in the London Zoo*
2018-2020	Kenna Sherman, College of Creative Studies, University of California Santa Barbara Project: *Comparative oncology and comparative genomics in mammals*
2017- 2019	Sydney Collier, Anthropology, University of California Santa Barbara Project: *Comparative oncology in the Santa Barbara Zoo*

Primary Advisor – Undergraduate Research Projects

URCA Grant denotes student received UCSB funding for project

2024-	Christian Navarro, University of California Santa Barbara Project: *Breastfeeding practices over COVID lockdown*
2023-2024	Anastasia Senavsky, University of California Santa Barbara, URCA Grant Project: *Art Loves Science: A showcase on reproductive biology*
2022-2023	Cassidye Devers, University of California Santa Barbara Project: *Medicine or poison in Ancient Rome*
2022-2023	Advika Verma, University of California Santa Barbara Project: *Cross cultural comparisons of BMI*
2022	Mekila Nevens, University of California Santa Barbara, Project: *Effects of early life stress in females and males*
2022	Amy Lam, University of California Santa Barbara, Project: *Characterization of fetal microchimerism throughout pregnancy*
2022	Ashley Willis, University of California Santa Barbara, URCA Grant Project: *Placentation and Neoplasia: A life history exploration of evolved disease defenses*

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2020-2021	Caitlin Fitzpatrick, Anthropology, University of California Santa Barbara Project: *Culture practices that reduce viral transmission*
2019-2020	Ammar Campwala, Anthropology, University of California Santa Barbara Project: *Cancer risk in the vulnerable homeless population in Santa Barbara*
2018-2019	Rojin Aghamohammadi, Honors Thesis, Anthropology, University of California Santa Barbara Project: *A cross-cultural review of fetal alcohol syndrome*
2015-2016	William Walker, Barrett Honors College, Arizona State University, Honors Faculty Project: *Epidemiology of cancer in primates*
2008-2009	Disha Bora, High-school research mentor, Detroit Country High School Project: *SNPs associated with abdominal aortic aneurysms*

Committee Member – Graduate

2025-	Brianna Chan, Department of Geography, University of California Santa Barbara PhD Project: *Environmental exposures and endometriosis*
2024-	Vahid Nikoonejad Fard, School of Informatics, Northern Arizona University PhD Project: *Retrotransposons and cancer*
2024-	Joelle Denning, School of Life Sciences, Arizona State University PhD Project: *Comparative placenta evolution*
2023-	Yoann Buoro, Department of Anthropology, University of California Santa Barbara MA Project: *TBA*
2023-	Emily Cobb, Department of Anthropology, University of California Santa Barbara MA Project: *TBA*
2021-	Hannah Frogge, Department of Anthropology, University of California Santa Barbara MA Project: *Constraints on population growth of blue monkeys (Cercopithecus mitis) in Kibale National Park, Uganda (2023)* PhD Project: ***TBD***
2021-2023	Zhian Chen, Department of Anthropology, University of California Santa Barbara MA Project: *Underestimation of peer support for women's empowerment reinforces inequitable gender norms among Tanzanian men*
2020-2021	Joseph Kilgallen, Department of Anthropology, University of California Santa Barbara MA Project: *Positive correlation between women's status and intimate partner violence suggest violence backlash in Mwanza, Tanzania*

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2020-2022	Ashley Peraza, Arizona State University MA Project: *Trends in tissue specific cancer*
2020-	Brittney Holguin, Department of Anthropology, University of California Santa Barbara PhD Project: *TBD* MA Project: *External auditory exostoses and their relationship to aquatic activities on California's Northern Channel Islands; Completed 2021*
2019-2022	Jessica Ayers, Psychology, Arizona State University PhD Project: *Maternal-fetal conflict and behavior*
2019-2021	Ronnie Steinitz, Anthropology, University of California Santa Barbara MA Project: *Primate feeding ecology*
2017-2022	Amy Anderson, Department of Anthropology, University of California, Santa Barbara PhD Project: *Skeletal indicators of early stress; MA Completed 2018*
2017-2022	Valerie Harris, Biodesign Institute, Arizona State University PhD Project: *Cancer prevalence across vertebrates*

Committee Member – Undergraduate

2021-2022	Selin Aksoy, Barrett Honors College, Arizona State University Project: *Scaling of tissue size and cancer risk across species*
2021-2022	Harshini Darapu, Barrett Honors College, Arizona State University Project: *Reproductive cancer prevalence across mammalian species*
2020-2021	Shannon Austin, Barrett Honors College, Arizona State University Project: *Potential cancer suppression mechanisms in Ruminants*
2020-2021	Morgan Fox, Barrett Honors College, Arizona State University Project: *Multivariate analysis of life history traits across species and cancer prevalence*
2019-2020	Komal Majhail, Barrett Honors College, Arizona State University Project: *Mammary cancer across mammals*
2018-2019	Jordyn Dolan, Barrett Honors College, Arizona State University Project: *A survey of cancer prevalence within birds (the clave Aves)*

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PLENARY/KEYNOTE LECTURES

2024 **Comparative Perinatal Biology**, Center for Perinatal Discovery, University of California San Diego
Keynote: *Leveraging evolution and comparative biology for maternal health*

2024 **Cancer Evolution: From Genome to Ecology**, Wellcome Genome Campus, UK
Plenary: *Evolutionary compromises: Exploring cancer in the animal kingdom*

2024 **Darwin Day Invited Speaker, Integrative Biology**, University of South Florida
Plenary: *Adapting to adversity: Exploring cancer in the animal kingdom*

2022 **Paradox of the Organism Revisited**, Georgetown University, Washington DC
Plenary: *We are multitudes: microchimerism, evolution and human health*

2022 **Systems Approaches to Cancer Biology**, Marine Biological Laboratory, Woods Hole, MA
Plenary: *Cancer defense across the tree of life*

2020* **Cells to Self,** Exploratorium, San Francisco, CA
Plenary: *Cells from another self* *cancelled due to COVID19

2018 **Zombie Apocalypse Medicine Meeting**, Arizona State University, Tempe, AZ
Plenary: *Is your mom a zombie? The evolutionary implications of fetal microchimerism*

INVITED LECTURES

2025 **Coffee Talk, College of Creative Studies**, University of California Santa Barbara
Talk: *Microchimerism and the art of science*

2025 **EEMB Seminar Series**, University of California Santa Barbara
Talk: *Evolutionary Compromises: Cancer Across the Animal Kingdom*

2023 **Center for Perinatal Discovery**, UC San Diego
Talk: *An evolutionary perspective on maternal health and disease*

2022 **CSUN Biology Colloquium**, California State University, Northridge, Virtual
Talk: *Life history trade-offs in cancer*

2022 **UNLV Anthropology Proseminar**, University of Nevada, Las Vegas, Virtual
Talk: *Life history trade-offs in cancer*

2021 **CEMinar, Center for Evolution and Medicine**, Arizona State University, Virtual
Talk: *An evolutionary perspective on maternal health and disease*

2021 **OCEAN Speaker Series, Oklahoma State University**, Virtual
Talk: *Life history trade-offs in reproduction and cancer*

2020 **Club EvMed, International Society for Evolution**, Medicine and Public Health, Virtual
Talk: *Cancer prevalence and life history traits in mammals*

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2020 **UCLA Department of Medicine Grand Rounds**, Darwin Day Lecture, Los Angeles, CA
Talk: *Cancer across the tree of life: New insights into an ancient disease*

2020 **Cancer and Embryo Development**, Arizona State University, Tempe AZ
Talk: *Life history and cancer*

2019 **Anthropology Colloquium**, University of Oregon, Eugene OR
Talk: *Life history trade-offs in reproduction and cancer*

2019 **The Molecular Biology and Evolution of Cancer**, SMBE Satellite, Yale School of Public Health, New Haven, CT
Talk: *Evolution of cancer defenses*

2018 **Perspectives on Human Brain Evolution**, Harvard Medical School, Boston, MA
Talk: *Insight into human brain evolution through phylogenetic analysis and comparative genomics*

2018 **GRITtalk**, UCSB
Talk: *Cancer across the tree of life: New insights into an ancient disease*

2018 **Center for Behavior, Evolution and Culture (BEC) Colloquium**, UCLA, USA
Talk: *Life history trade-offs in reproduction and cancer*

2018 **Anthropology Colloquium**, University of California Davis, Davis, California, USA
Talk: *Life history trade-offs in reproduction and cancer*

2018 **Understanding Cancer Through Evolutionary Game Theory**, Leiden, Netherlands
Talk: *Life history trade-offs and cancer*

2017 **BROOM Center Seminar**, UCSB, Santa Barbara, CA
Talk: *Life history trade-offs and cancer*

2017 **Cooperation & Conflict Symposium**, Tempe, AZ
Talk: *Cooperation and Conflict in Maternal Health*

2016 **University of New Mexico**, Albuquerque, NM
Talk: *Cooperation and Conflict Beyond the Womb*

2015 **Life History Theory & Telomere Dynamics**, Drymen, UK
Talk: *Cancer and the evolution of multicellularity*

2015 **American College of Veterinary Surgeons** Summit, Nashville, TN
Talk: *Cancer across life: Cancer susceptibility and the evolution of multicellularity*

2014 **School of Biological, Biomedical, and Environmental Sciences**, University of Hull, Hull, United Kingdom
Talk: *Tradeoffs and Cancer*

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CONFERENCE PRESENTATIONS

2024 **American Society for Primatology**, Riviera Maya Mexico
Talk: *Cancer Prevalence in Non-human Primates: Evidence in support of Peto's Paradox (presented by Janine Rose Klein)*

2024 **American Association of Biological Anthropologist (AABA)**, Los Angeles CA
Talk: *Exploring placenta evolution: Insights into placenta morphology, life history traits, and cancer (presented by: Cristiano Parmeggiani)*

2024 **California Workshop on Evolutionary Social Sciences**, Santa Barbara, CA
Talk: *Cancer prevalence in non-human primates: Evidence in support of Peto's Paradox (Presented by: Janine Rose Klein)*
Talk: *Is cancer in mammals linked to the evolution of the placenta? An evolutionary medicine perspective (Presented by: Cristiano Parmeggiani)*
*Poster: *Challenges to studying preterm birth when using a comparative approach (Presented by: Aastha Kashyap, Brynn Shapiro, Carrie Guzis)*
*Undergrad poster award

2024 **Cottage Health Research Symposium**, Ritz-Carlton Bacara, Santa Barbara, CA
Talk: *Progress report: Immune regulation and maternal-fetal health study*

2023 **Society for Molecular Biology and Evolution** (SMBE), Ferrara, Italy
Poster: *Does maternal-fetal conflict explain the variation in cancer rates across mammals? (Presented by: Cristiano Parmeggani)*
*Poster: *The diversity of placenta invasiveness in mammals and the relationship between placenta invasiveness and cancer risk (Presented by: Mary Boyd)*
*Undergrad poster award

2023 **California Workshop on Evolutionary Social Sciences**, Fullerton, CA
Poster: *Relationship of placental invasiveness and interdigitation with cancer prevalence across species (Presented by: Cristiano Parmeggani)*

2022 **Evolution, Ecology and Evolutionary Biology Symposium**, Ankara Turkey
Talk: *Body size relates to the level of cancer suppression across non-human primates (Presented by: E. Yagmur Erten)*

2022 **American Society of Primatologist**, Denver, CO
Poster: *Reproductive neoplasia in female western lowland gorillas (Gorilla gorilla gorilla) under managed care (Presented by Anneke Moresco)*

2022 **International Society for Evolution**, Medicine, & Public Health, Lisbon, Portugal
Talk: *An evolutionary perspective on microchimerism and human health*

2022 **California Workshop on Evolutionary Social Sciences**, Fullerton, CA
Poster: *Characterizing the variation in fetal microchimerism throughout pregnancy (Presented by undergraduates: Amy Lam and Emilie Risha)*

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2022 **American Association of Biological Anthropologist**, Denver, CO and Virtual
Poster: *Does parent-offspring conflict across mammals result in differing offspring growth by placenta morphology? (Presented by Maya Szafraniec)*
Poster: *Characterizing the variation in fetal microchimerism throughout pregnancy (Presented by undergraduates: Amy Lam and Emilie Risha)*

2021 **Cancer Systems Biology Consortium Annual Investigators Meeting**, Virtual
Poster: *The ecology of cancer prevalence across species (Presented by Stephanie Kapsetaki)*

2021 **Young Systematics Forum**, Virtual.
Talk: *The ecology of cancer prevalence across species (Presented by Stephanie Kapsetaki)*

2021 **International Society for Evolution**, Medicine, & Public Health, Virtual
Poster: *The evolution of placenta diversification and mammalian reproductive strategies (Presented by Maya Szafraniec)*
Talk: *Bridging paleopathology and evolutionary medicine in cancer research (Presented by Carina Marques)*
Talk: *Female immune function across the reproductive continuum is responsive to environmental inputs (Presented by Carmen Hové)*
Talk: *A life history model of mammary neoplasia across mammals (Presented by Zachary Compton)*
Talk: *Chimerism and cancer across the tree of life (Presented by Stefania Kapsetaki)*

2021 **Evolution**, Virtual
Talk: *An evolutionary perspective on cancer prevalence in non-human primates (Presented by Zachary Compton)*

2021 **American Association of Physical Anthropologist**, Virtual
Poster: *The evolution of placenta diversification and mammalian reproductive strategies (Presented by Maya Szafraniec)*

2020 **Cancer Systems Biology Consortium Annual Investigators Meeting**, Virtual
Poster: *A Multi-scale approach to the evolution of Cancer Suppression (Presented by Zach Compton)*
Poster: *A life history model of mammary neoplasia across mammals (Presented by Morgan Fox)*

2020 **Zombie Apocalypse Medicine Meeting**, Virtual
Talk: *Of Mammals and Mombies*

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2020* **Human Biology Association**, Los Angeles, CA
Talk: *The role of early life adversity and breast cancer outcomes*
Talk: *Socioecological conditions shape postpartum immune trajectories (Presented by Carmen Hové)*
*cancelled due to COVID19

2019 **Cancer Systems Biology Consortium Annual Investigators Meeting**, Irvine, CA
Poster: *Comparative Oncology: The evolution of cancer defenses across the tree of life*

2019 **International Society for Evolution**, Ecology and Cancer, Cambridge, UK
Poster: *The role of early life adversity and breast cancer outcomes*
Poster: *Life History, Cancer Incidence, and Cancer Mortality in Non-Human Primates (Presented by Valerie Harris)*
Poster: *A survey of cancer prevalence across the clade (Presented by Jordyn Dolan)*
Talk: *Cancer across species: Identifying mechanisms of cancer resistance (Presented by Lisa Abegglen)*
Poster: *Investigations into decreasing the fitness of multicellular circulating tumor cell clusters using agent-based modeling approaches (Presented by Alex May)*

2019 **Human Behavior & Evolution Society**, Boston, MA
Poster: *Are cravings, aversions, and nausea/vomiting associated with pregnancy complications? Investigating the role of maternal-fetal conflict in maternal eating behavior and pregnancy complications (Presented by Jessica Ayers)*

2019 **Collaborative Research Symposium**, Ritz-Carlton Bacara, Santa Barbara
Talk: *Fetal microchimerism and maternal health*

2018 **International Society for Evolution**, Medicine, & Public Health, Park City, UT
Talk: *Comparative Oncology: New insights into an ancient disease*
Talk: *Life History, Cancer Incidence, and Cancer Mortality in Non-Human Primates (Presented by Valerie Harris)*

2018 **California Workshop on Evolutionary Social Sciences (CWESS)**, UC Santa Barbara
Talk: *Consequences of being (micro)chimeric*

2018 **Collaborative Research Symposium**, Ritz-Carlton Bacara, Santa Barbara
Talk: *Life history trade-offs in reproduction and cancer*

2018 **Post-Simian Workshop**, Nassau
Talk: *Trade-offs and cancer*

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2017 **International Society for Evolution**, Ecology and Cancer, Tempe, AZ
Talk: *A large-scale evaluation of neoplasia occurrence and life history traits in vertebrates*
Poster: *Life History, Cancer Incidence, and Cancer Mortality in Non-Human Primates (Presented by Valerie Harris)*
Poster: *Sharks do get cancer (Presented by Diego Mallo)*

2017 **Keystone Symposia**, Maternal-Fetal crosstalk: Harmony vs. Conflict, Washington DC
Poster: *Cooperation & conflict beyond the womb*

2017 **Fitness Interdependence Workshop**, Saguaro Lake, AZ
Talk: *Cooperation & conflict beyond the womb*

2016 **International Primatological Society/American Society of Primatologist**, Chicago, IL
Talk: *Cancer Incidence and Mortality in Strepsirrhini at the Duke Lemur Center*

2016 **Human Behavior & Evolution Society**, Vancouver, Canada
Talk: *Cooperation & conflict beyond the womb: Fetal microchimerism & maternal health*

2016 **International Society for Evolution**, Medicine, & Public Health, Durham, NC
Talk: *Cooperation & conflict beyond the womb: Fetal microchimerism & maternal health*

2015 **International Biannual Evolution and Cancer Conference**, San Francisco, CA
Talk: *Using agent-based modeling to understand the emergence of resistant cancer phenotypes*

2015 **Conference on Complex Systems**, Tempe, AZ
Talk: *Using agent-based modeling to understand the emergence of resistant cancer phenotypes*

2015 **Personalized Medicine Conference**, Tucson, AZ
Poster: *Fetal microchimerism and maternal health: A review and evolutionary analysis of cooperation and conflict beyond the womb*

2015 **Society for Molecular Biology & Evolution**, Vienna, Austria
Talk: *Cancer across the tree of life: Cooperation and cheating in multicellularity*

2015 **Organismality**, St. Louis MO
Talk: *The phylogenetic origins of need-based transfers*

2015 **Human Behavior & Evolution Society**, Columbia, MO
Talk: *Cancer susceptibility and reproductive trade-offs: A model of the evolution of cancer defenses*

2015 **International Society for Evolution**, Medicine, & Public Health, Tempe AZ
Talk: *Are there trade-offs between reproductive competiveness and cancer susceptibility?*

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2013 **Ecological and Evolutionary Perspectives in Cancer**, Jacques Monod Roscoff, France
Poster: *The quiescent tortoise and the proliferative hare: Life history selection in cancer's evolutionary race*

2013 **Human Behavior and Evolution Society**, Miami Beach, FL
Talk: *Do metabolic tradeoffs explain why humans have exceptionally large brains? Testing the expensive tissue hypothesis using phylogenetic analysis*

2013 **International Biannual Evolution and Cancer Conference**, San Francisco, CA
Poster: *Does early adversity shape disease risk through adaptive calibration of hormonal profiles? Evolutionary life history theory in breast cancer and cardiovascular disease*

2013 **Biological Mechanisms in Evolution**, Gordon Research Conferences, Easton, MA.
Poster: *Does early adversity shape disease risk through adaptive calibration of hormonal profiles? Evolutionary life history theory in breast cancer and cardiovascular disease*

2012 **Society for Molecular Biology and Evolution**, Dublin, IE.
Poster: *Capuchin monkey transcriptome provides insight into primate brain evolution*

2011 **American Association of Physical Anthropologist**, Minneapolis, MN.
Talk: *Phylogenetic analysis reveals relaxed constraints in primate encephalization during mammalian descent*

2010 **Evolution**, Portland, OR.
Poster: *Phylogenetic analysis explains deviations from Brain: Body Allometric Scaling Laws in Primates and Cetacea*

2009 **American Society of Primatologist**, San Diego, CA.
Poster: *Platyrrhine genomic resources: Shotgun libraries from Pitheciidae, Cebidae, and Atelidae*

2007 **Clinical Cardiovascular Genomics Conference**, Cold Springs Harbor, NY.
Poster: *Genetic studies for abdominal aortic aneurysms: DNA linkage, Microarrays, and Genetics Association*

OUTREACH

2025 International Society for Evolution, Ecology and Cancer Zoom Series,
Talk: From Elephants to Humans: Evolutionary Insights into Cancer

2024 Originalia: Reproductive Biology and Art Showcase, Glassbox Gallery UCSB

2024 Darwin Day Educator Workshop, Tampa Bay STEM network, Tampa FL
Talk: How to grow big and beat cancer

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2023	Genetic Ghosts Stories, Exploratorium San Francisco, After Dark Series Talk: Genetic Ghosts: Understanding microchimerism
2023	Profs at the Pub - UCSB Shared Planet, Shared Health: How studying female animals can shed light on women's health
2023	Pregnancy souvenirs Vox Unexplainable Podcast
2023	Bug in the System: The Past, Present and Future of Cancer BBC podcast with host Kat Arney
2023	Cancer as an ancient disease: past and implications to the present Paleopathology Association Webinar Series
2023	Microchimerism and Mombies Channel ZED
2022	Cancer and the Nature of Life Series Transmissible Cancer in Mammals
2022	That Anthro Podcast Evolutionary Approaches to Human Health
2019	Zombified Podcast Microchimeric Mombies
2019	Isla Vista 2nd grade Science Outreach Activity and discussion on human-wildlife conflict and elephants
2019	Underestimated Podcast Consequence of being a multicellular organism
2017	Arizona State University Night of the Open Door Teaching life history theory to middle school children
2016	Science communication: Guest blog post at Tenure, She Wrote Thoughts on “How to Get a Postdoc Position”
2016	Arizona State University EMERGE Teaching evolution & cancer through strategy games
2016	Arizona State University Night of the Open Door Teaching evolution & cancer to middle school children
2016	Northern Arizona University (NAU) Road Scholars Tour Teaching evolution & cancer to retirees

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PEER REVIEWER

Nature Communications
BioEssays
Journal of Molecular Biology
Molecular Biology and Evolution
Functional Ecology
BMC Biology
Frontiers Ecology/Evolution
EMBO Molecular Medicine
Proceed. of the Royal Soc. B
Evolutionary Applications
Nature Cancer Reviews
Evolution
PLOS Computational Biology
Am. Journ. of Epidemiology
eLife
Nature Ecology and Evolution
American Naturalist
Evolution, Medicine & Public Health
Genome, Biology, Evolution
American Journal of Human Biology
Molecular Phylogenetics and Evolution
IScience
Journal of Mammology

MEMBERSHIPS

American Association for the Advancement of Science
International Society for Evolution, Ecology and Cancer (founding member)
International Society for Evolution, Medicine & Public Health (founding member)
Human Biology Association
Sigma Xi

SCIENCE IN THE MEDIA

2024	Interviewed by Sonia Fernandez, the UCSB Current, 2024 Researchers complete the largest compilation of cancer prevalence across vertebrates
2024	Interviewed by Hannah Thomasy, the Scientist, A stranger to Oneself: The Mystery of Fetal Microchimerism
2024	Interviewed by Sonia Fernandez, the UCSB Current, 'Originalia' art show celebrates the human reproductive system
2024	Interviewed by Sonia Fernandez, the UCSB Current, Researchers find that a new mother's immune status varies with her feeding strategy
2023	Interviewed by Katie Wu, the Atlantic, An awkward evolutionary theory for one of pregnancy's biggest complications
2023	Interviewed by Katie Wu, the Atlantic, The most mysterious cells in our bodies don't belong to us
2022	Interviewed by Katie Wu, the Atlantic, Pregnancy is a war: Birth is a cease-fire
2022	Interviewed by the UCSB Current, A Planetary Sisterhood
2022	Interviewed by Carrie Arnold, Scientific American, Insights from Pregnancy Could Help Fight Cancer
2022	Interviewed by the UCSB Current, The Multitudes Within Us

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2022	Interviewed by the UCSB Current, Animals and the Big C
2021	Interviewed by Stephanie DeMarco, Drug Discovery News, You have your mother's eyes – and cells
2021	Interviewed by Sean Crommelin, The Daily Nexus, Cancer and Chemo from a Wider Lens
2020	Interviewed by Jacqueline Wen, The Daily Nexus, UCSB Researcher Investigates Strategies for Reducing Metastatic Potential of Cancer Cell Clusters
2018	Interviewed by Jacqueline Wen, The Daily Nexus, UCSB joins large-scale cancer research consortium
2017	Featured Scientist, The Chimera Experiments Project, Feature "Realm of an Inner Child" by Jeannette Louie Interviewed by Katherine Rowland, Aeon, We are multitudes Interviewed by Heather Marcoux, Motherly, It's science: Your baby will always be a part of you
2015	Regarding, "Fetal microchimerism and maternal health: A review and evolutionary analysis of cooperation and conflict beyond the womb Interviewed by: Carl Zimmer, New York Times; A pregnancy souvenir: cells that are not your own Viviane Callier, The Smithsonian; Baby's cells can manipulate mom's body for decades Ed Yong, National Geographic; Fetal cells hide out in mum's body, but what do they do? Krisitin Magaldi, Medical Daily; Fetal cells can be found in a new mother's body and will effect her health even after pregnancy Jimmy Jenkins, KJZZ radio, local Phoenix radio station Michaeleen Doucleff, NPR radio –morning edition, Washington D.C., Fetal cells may protect mom from disease long after the baby's born
2015	Regarding "Cancer across the tree of life: cooperation and cheating in multicellularity", Interviewed by George Johnson, New York Times, Cellular 'cheaters' give rise to cancer

PROFESSIONAL DEVELOPMENT

2020	Treating cancer in zoo and aquaria species: Strategies to grow the ESCRA tumor database, NC State University, Virtual
2018	Promotion to Tenure Workshop, UC Santa Barbara
2017	Research Funding 101, UC Santa Barbara

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2016	CoGe: Comparative Genomics Workshop, Arizona State University
2015	Complex Systems: Networks, Agent-based Models, Information Theory and Maximum Entropy Methods, Arizona State University
2015	Netlogo Workshop: Complex Systems, Arizona State University
2014	Complex Adaptive Systems, Arizona State University
2014	Workshop on Cancer Evolution and Evolutionary Medicine: Foundations and Future Directions, Wissenschaftskolleg zu Berlin
2011	National Postdoctoral Association Michigan Regional Symposium, Pathways to Careers, Wayne State University
2010	Analyzing Next Generation Sequencing Data - Michigan State University
2010	Applying Next Generation Sequencing Technologies to Research - Molecular Medicine Tri-Conference Short Course, San Francisco, CA
2010	Career opportunities after doctoral education and postdoctoral training - Wayne State University
2008	Summer Institute in Statistical Genetics - University of Washington: Human population genetic data analysis, Human association mapping
2007	NCBI Traveling Workshop: GenBank, Molecular Biology Resources, Entrez Gene QuickStart, Correlating Disease Genes and Phenotypes, BLAST QuickStart