

BIOGRAPHICAL SKETCH

Cheryl J. Briggs

Mellichamp Chair in Systems Biology
Department of Ecology, Evolution, and Marine Biology and
Biomolecular Science and Engineering Program, UCSB

Research Area:

Theoretical ecology, population dynamics, systems biology, disease ecology

University Address:

Department of Ecology, Evolution, and Marine Biology
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Education:

Imperial College Silwood Park, Ascot, Berks, UK: Postdoctoral researcher in population modeling, 1993-1995
University of California, Santa Barbara, CA: Ph.D. Biology, 1993
Princeton University, Princeton, NJ: M.S. Electrical Engineering, 1988
Michigan Technological Univ., Houghton, MI: B.S. Electrical Engineering, 1985
B.S. Biology, 1985

Professional Positions:

2007- present Duncan and Suzanne Mellichamp Chair in Systems Biology,
Professor, Dept. of Ecology, Evolution and Marine Biology,
and Biomolecular Science and Engineering Program,
University of California, Santa Barbara
2010-2013 Department Chair, Ecology, Evolution and Marine Biology, UCSB
2002-2007 Associate Professor, Dept. of Integrative Biology, University of California,
Berkeley
1997-2002 Assistant Professor, Department of Integrative Biology, University of California,
Berkeley
1995-1997 Professional Research Biologist, Department of Biological Sciences, UCSB
1993-1995 Post-Doctoral Research Assistant, Department of Biology, Imperial College,
Silwood Park, England
1988-1993 Graduate Teaching Assistant, and Graduate Research Assistant: Dept. of
Biological Sciences, UCSB
1986-1988 Senior Technical Associate and Member of Technical Staff I: Computer
Architectures Research Department, AT&T Bell Laboratories, Murray Hill, NJ

Other Experience and Appointments:

2017-present Member, Editorial Board for the journals *Ecology* and *Ecological Monographs*
2016-present Affiliated Professor, Center for Bioengineering, UC Santa Barbara
2010-present Board of Directors, University of California Global Health Institute
2009-2012 Member, Scientific Advisory Board for National Center for Ecological Analysis

- and Synthesis (NCEAS)
- 2008-2010 Member, Board of Advisors National Institute for Mathematical and Biological Synthesis (NIMBioS)
- 2006-2008 Vice Chair (2006-2007) and Chair (2007-2008) of the Theoretical Ecology Section of the Ecological Society of America

Awards:

- Fellow of the Ecological Society of America (elected 2016)
- Duncan and Suzanne Mellichamp Chair in Systems Biology (2007- present)
- Miller Research Professorship, Miller Institute, Berkeley, CA (2006-2007)

Grants and Contracts:

- 2016-2021 DoD Strategic Environmental Research and Development Program (SERDP), “Effects of Climate on Host-Pathogen Interactions in Chytridiomycosis”, lead PI: C. Richards-Zawacki, University of Pittsburgh, \$2,705,768 total award (\$303,133 subcontract to C. Briggs at UCSB).
- 2016-2021 NSF Division of Environmental Biology (DEB), Long-term Research in Environmental Biology, “LTREB: Collaborative Research: Long-term dynamics of amphibian populations following disease-driven declines”, (lead PI: C. Briggs, co-PI: R. Knapp, in collaboration with E.B. Rosenblum at UC Berkeley), \$383,736 (UCSB portion).
- 2015-2019 University of California Office of the President, President's Research Catalyst Award, “Using UC Reserves to Detect and Forecast Climate Impacts (ISEECI)”, (PIs: Barry Sinervo and Laurel Fox (UCSC), co-PIs: S. Mazer, C. Briggs & 14 others from all UC campuses), \$1,900,000 (\$104,034 to UCSB for campus-specific GSRs).
- 2015-2018 NSF Integrative Organismal Systems (IOS), “Collaborative Research: Linking Causes of Variation in the Amphibian Skin Microbiome with Consequences for Disease Risk”, (lead PI: C. Briggs, co-PI: R. Knapp, in collaboration with A. Jani and C. Nelson at Univ. of Hawaii), \$225,747 (UCSB portion).
- 2015-2016 UC MEXUS-CONACYT, “An examination of incidence and prevalence in three anuran communities”, (PIs: C. Briggs and C. A. Flores-Lopez), \$17,100 (UCSB portion).
- 2013-2017 NIH National Institute of General Medical Sciences, Ecology and Evolution of Infectious Diseases Program grant, “EID Disease in complex communities: multi-host multi-pathogen interactions”, (lead PI: C. Briggs, co-PIs: P. Johnson, A. Blaustein, J. Rohr, J. Hoverman), \$1,664,694.
- 2012-2013 NSF Rapid Response Research (RAPID) grant, “Collaborative Research: Testing Intervention Strategies to Change the Outcome of Disease-caused Mass-mortality Events in a Declining Amphibian”, (lead PI: R. Knapp, co-PIs: C. Briggs, E. Rosenblum, V. Vredenburg), \$121,077.
- 2012-2013 NSF Dissertation Improvement Grant for Andrea Jani, PhD Candidate, “Dissertation Research: Associations between Symbiotic Bacterial Communities and Infection by an Emerging Fungal Pathogen: Distinguishing Cause from Correlation”, \$15,000.
- 2007-2013 NSF Ecology of Infectious Diseases Program grant, “Collaborative Research:

- After the crash: factors allowing host persistence following outbreaks of a highly virulent disease”, (PIs: C. Briggs, R. Knapp, C. Moritz, V. Vredenburg, E. Rosenblum), \$2,497,210.
- 2005-2010 NSF Ecology of Infectious Diseases Program grant, “Collaborative research: Ecological interactions between Sudden Oak Death and Lyme disease in California”, (lead PI: R. Ostfeld, co-PIs: C. Briggs and R. Lane; \$1,267,057 to UC Berkeley), \$1,778,000.
- 2002-2007 NIH National Institute of Environmental Health Sciences, Ecology of Infectious Disease Program grant, “Amphibian disease dynamics in a fragmented landscape” (lead PI: C. Briggs, co-PIs: R. Knapp, J. Taylor, and C. Moritz), \$2,250,000.
- 2003-2006 USDA CREES grant, “Productivity and intraguild predation in orchard crop systems”, (PIs: C. Briggs and E. Borer), \$200,000.
- 2001-2003 NSF grant: “Analysis of control and regulation of an insect by its parasitoids”, \$28,788 subcontract on a \$300,000 grant to W. W. Murdoch.
- 1998-2002 NSF Grant, “The effects of dispersal on the population dynamics and parasitoid diversity of a multiparasitoid-host system”. (PI: C. Briggs), \$294,878.
- 1998-2001 USDA NRI grant, “Parasitoid diversity: Effects of competition and seasonality”, (PI: C. Briggs), \$165,000.
- 1995-1998 NSF Research Grant, “General Theory for Population Dynamics of Parasitoid-Host Systems”, (PI: W. Murdoch, Co-PI's: C. Briggs and R. Nisbet), \$225,000.

Seminar and Conference Presentations (in the past 5 years):

- Sept. 2017: Invited Departmental Seminar, University of Pittsburgh, Pittsburgh, PA.
- Aug. 2017: Workshop Organizer and Instructor, Disease Modeling in R. Ecological Society of America Annual Meeting, Portland, OR
- June 2017: Organized and hosted the 15th Annual Ecology of Infectious Diseases Conference at UCSB (<https://eeid2017.eemb.ucsb.edu>)
- May 2017: Princeton Workshop on Adaptive Network Dynamics (CANDy), Princeton University, Princeton, NJ
- Dec. 2016: CNSI Workshop on Adaptive Network Dynamics (CANDy), UCSB
- Nov. 2011: Integrative Research Challenges in Environmental Biology meeting, Arizona State Univ., Tempe, AZ
- Aug. 2016: Presenter in an Organized Oral Session: Ecological Society of America Annual Meeting, Fort Lauderdale, FL
- May 2016: Multicampus initiatives in Planetary Health, UC Carbon Slam 2016, Xerox Parc, Palo Alto, CA
- Mar. 2016: Invited Talk Departmental Seminar, Department of Biology, University of Puerto Rico, Rio Piedras, San Juan, Puerto Rico
- Dec. 2015: Invited Talk, NIH Workshop: Ecology's Role in Population Genetics and Evolution, Bethesda, MD
- Oct. 2015: Invited Talk, Colorado State University, Fort Collins, CO
- Sept. 2015: Institute for the Study of Ecological and Evolutionary Climate Impacts (ISEECI) Workshop, McLaughlin Natural Reserve, CA
- Aug. 2015: Presenter and co-organizer of an Organized Oral Session, Ecological Society of America Annual Meeting, Baltimore, MD.
- June 2015: Invited Talk, National Bsal (*Batrachochytrium salamandrivorans*) Task Force

- Workshop, USGS Powell Center, Fort Collins, CO
- Apr. 2015: Invited Departmental Seminar, Department of Biology, UC Riverside
- Feb. 2015: Center for Bioengineering Faculty Seminar Series, University of California, Santa Barbara
- June 2014: Invited Talk, Workshop: Integrating the effects of ocean acidification among functional scales on tropical coral reefs: cells to ecosystems, Santa Catalina Island, CA
- Mar. 2014: Invited Seminar, UTIA Center for Wildlife Health Organized Research Unit, University of Tennessee, Knoxville, TN
- Mar. 2014: Invited Talk, Investigative Workshop in Vectored Plant Viruses, National Institute for Mathematical and Biological Synthesis (NIMBioS), Knoxville, TN
- Dec. 2013: Invited Seminar, Theory Lunch, University of Michigan, Ann Arbor, MI
- Dec. 2013: Invited Departmental Seminar Speaker, Ecology and Evolutionary Biology Department, University of Michigan, Ann Arbor, MI
- Nov. 2013: 1st Moorea Avatar Working Group, ETH Zurich, Zurich, Switzerland
- Jul. 2013: Moorea Coral Reef Long-Term Ecological Research Program, NSF Site Review, Moorea, French Polynesia
- Mar. 2013: Working Group co-organizer, “Fungal pathogens and disease-induced extinction: Are fungal diseases different?”, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA

Publications:

In Review, In Revision, and In Press:

- Briggs, C.J.**, T. Adam, S.J. Holbrook, and R. Schmitt. (In Review) Resistance of macroalgae to herbivory increases the likelihood of alternative stable states on coral reefs. *Oikos*.
- Knapp, R.A., M.B. Joseph, T.C. Smith, E.E. Hegeman, and **C.J. Briggs**. (In Review) Field treatments increase host survival and persistence following mass die-offs caused by a frog-killing fungus. *Science*.
- Peralta-Garcia, A., A.J. Adams, P. Galina-Tessaro, **C.J. Briggs**, J.H. Valdez-Villavicencio, B.D. Hollingsworth, and H.B. Shaffer. (In Review) Occurrence of *Batrachochytrium dendrobatidis* in anurans of the Mediterranean region of Baja California, Mexico. *Diseases of Aquatic Organisms*.
- Wilber, M.Q., P.T. Johnson, and **C.J. Briggs**. (In Review) When amphibian chytrid fungus invades: integrating theory and data to understand disease-induced amphibian declines. Chapter 12 in *Wildlife Disease Ecology: Linking Theory to Data and Application* (K. Wilson, A. Fenton, and D. Tompkins. Eds.).
- Tornabene, B.J., A.R. Blaustein, **C.J. Briggs**, D.M. Calhoun, P.T.J. Johnson, T. McDevitt-Galles, J.R. Rohr, and J.T. Hoverman. (In Review) The influence of landscape and environmental factors on ranavirus epidemiology in amphibian assemblages. *Freshwater Biology*.
- MacDonald, A., D. Hyon, A. McDaniels, K. O'Connor, A. Swei, and **C.J. Briggs**. (In Review) Ticks and tick-borne disease risk initially increase then decline through time in response to wildfire in California. *Ecosphere*.
- Wilson, E., **C.J. Briggs**, and T.L. Dudley. (In Review) Invasive African clawed frogs in California: a reservoir for or predator against the chytrid fungus? *PLoS ONE*.

2017

- Adams, A.J., A.P. Pessier, and **C.J. Briggs**. 2017. Rapid extirpation of a North American frog coincides with an increase in fungal pathogen prevalence: Historical analysis and implications for reintroduction. *Ecology and Evolution*. doi: 10.1002/ece3.3468.
- Drawert, B., M. Griesemer, L. Petzold, and **C.J. Briggs**. 2017. Using stochastic epidemiological models to evaluate conservation strategies for endangered amphibians. *Journal of the Royal Society Interface*. 14(133): 20170480. doi:10.1098/rsif.2017.0480.
- Jani, A., R.A. Knapp, and **C.J. Briggs**. 2017. Epidemic and endemic pathogen dynamics correspond to distinct host population microbiomes: inferring cause from correlation in field data. *Proceedings of the Royal Society*. 284(1857): 20170944. <http://dx.doi.org/10.1098/rspb.2017.0944>
- Wilber, M.Q., R.A. Knapp, M. Toothman, and **C.J. Briggs**. 2017. Resistance, tolerance and environmental transmission dynamics determine host extinction risk in a load-dependent amphibian disease. *Ecology Letters* 20(9): 1169-1181. doi: 10.1111/ele.12814.
- Wilson, E.A., T.L. Dudley, and **C.J. Briggs**. 2017. Shared behavioral responses and predation risk of anuran larvae and adults exposed to a novel predator. *Biological Invasions*. doi: 10.1007/s10530-017-1550-x.
- MacDonald, A., D. Hyon, J. Brewington III, K. O'Connor, A. Swei, and **C.J. Briggs**. 2017. Lyme disease risk in southern California: abiotic and environmental drivers of *Ixodes pacificus* (Acari: Ixodidae) density and infection prevalence with *Borrelia burgdorferi*. *Parasites & Vectors*. 10(1):7 doi: 10.1186/s13071-016-1938-y.
- Wilber, M.Q., P.T. Johnson, and **C.J. Briggs**. 2017. When can we infer mechanism from parasite aggregation? A constraint-based approach to disease ecology. *Ecology*. 98(3): 688-702.
- Adams, A.J., S.J. Kupferberg, M.Q. Wilber, M. Grefsrud, S. Bobzien, V.T. Vredenburg, and **C.J. Briggs**. 2017. Extreme drought, host density, sex, and bullfrogs influence fungal pathogen infection in a declining lotic amphibian. *Ecosphere*. 8(3): e01740.
- Grant E.H.C., E.L. Muths, R.A. Katz, S. Canessa, M.J. Adams, J.R. Ballard, L. Berger, **C.J. Briggs**, J. Coleman, M.J. Gray, M.C. Harris, R.N. Harris, B.R. Hossack, K.P. Huyvaert, J.E. Kolby, K.R. Lips, R.E. Lovich, H.I. McCallum, J.R. Mendelson III, P. Nanjappa, D.H. Olson, J.G. Powers, K.L.D. Richgels, R.E. Russell, B.R. Schmidt, A. Spitzen-van der Sluijs, M.K. Watry, D.C. Woodhams, and C.L. White. 2017. Using decision analysis to support proactive management of emerging infectious wildlife diseases. *Frontiers in Ecology and the Environment*. 15(4): 214-221. doi: 10.1002/fee.1481.
- Hilker, F.M., L.J.S. Allen, V.A. Bokil, **C.J. Briggs**, Z. Feng, K.A. Garrett, L.J. Gross, F.M. Hamelin, M.J. Jeger, C.A. Manore, A.G. Power, M.G. Redinbaugh, M.A. Rúa, and N.J. Cunniffe. 2017. Modelling virus coinfection to inform management of maize lethal necrosis in Kenya. *Phytopathology*. PHYTO-03-17-0080-FI. doi: 10.1094/PHYTO-03-17-0080-FI.

2016

- Knapp, R.A., G.M. Fellers, P.M. Kleeman, D.A.W. Miller, V.T. Vredenburg, E.B. Rosenblum, and **C.J. Briggs**. 2016. Large-scale recovery of an endangered amphibian despite ongoing exposure to multiple stressors. *Proceedings of the National Academy of Sciences*. 113(42): 11889–11894. doi: 10.1073/pnas.1600983113
- Smith, T.H., R.A. Knapp, and **C.J. Briggs**. 2016. Declines and extinctions of mountain yellow-legged frogs have small effects on invertebrate communities. *Ecosphere*. 7(6): e01327.
- Wilber, M.Q., K.E. Langwig, A.M. Kilpatrick, H.I. McCallum, and **C.J. Briggs**. 2016. Integral Projection Models for host–parasite systems with an application to amphibian chytrid

fungus. *Methods in Ecology and Evolution*. 7 (10): 1182-1194. doi: 10.1111/2041-210X.12561

- Edmunds, P.J., S. Comeau, C. Lantz, A. Andersson, **C.J. Briggs**, A. Cohen, J.P. Gattuso, J. Grady, K. Gross, M. Johnson, E. Muller, J.B. Ries, S. Tambutt., E. Tambutt, A. Venn, and R.C. Carpenter. 2016. Integrating the effects of ocean acidification across functional scales on tropical coral reefs. *BioScience*. doi: 10.1093/biosci/biw023.
- Poorten, T.J., M.J. Stice-Kishiyama, **C.J. Briggs**, and E.B. Rosenblum. 2016. Mountain yellow-legged frogs did not produce detectable antibodies in immunization experiments with *Batrachochytrium dendrobatidis*. *Journal of Wildlife Diseases*. 52(1):154-8.
- MacDonald, A.J. and **C.J. Briggs**. 2016. Truncated seasonal activity patterns of the western blacklegged tick (*Ixodes pacificus*) in central and southern California. *Ticks and Tick Borne Diseases*. 7(1): 234–242.
- Wilber, M.Q., S.B. Weinstein, and **C.J. Briggs**. 2016. Detecting and quantifying parasite-induced host mortality from intensity data: method comparisons and limitations. *International Journal for Parasitology*. 46(1): 59-66.
- Grant E.H.C., E.L. Muths, R.A. Katz, S. Canessa, M.J. Adams, J.R. Ballard, L. Berger, **C.J. Briggs**, J. Coleman, M.J. Gray, M.C. Harris, R.N. Harris, B.R. Hossack, K.P. Huyvaert, J.E. Kolby, K.R. Lips, R.E. Lovich, H.I. McCallum, J.R. Mendelson III, P. Nanjappa, D.H. Olson, J.G. Powers, K.L.D. Richgels, R.E. Russell, B.R. Schmidt, A. Spitzen-van der Sluijs, M.K. Watry, D.C. Woodhams, and C.L. White. 2016. Salamander chytrid fungus (*Batrachochytrium salamandrivorans*) in the United States—Developing research, monitoring, and management strategies. *U.S. Geological Survey Open-File Report*. 2015–1233, 16 p., DOI: 10.3133/ofr20151233.

2015

- Lafferty, K.D., G. DeLeo, **C.J. Briggs**, A.P. Dobson, T. Gross, and A.M. Kuris. 2015. A general consumer-resource population model. *Science*. 349(6250): 854-857.
- Adams, A.J., J.P. LaBonte, M.L. Ball, K.L. Richards-Hrdlicka, M.H. Toothman, **C.J. Briggs**. 2015. DNA Extraction Method Affects the Detection of a Fungal Pathogen in Formalin-Fixed Specimens Using qPCR. *PLoS One* 10(8): e0135389.
- Langwig, K.E., J. Voyles, M.Q. Wilber, W.F. Frick, K.A. Murray, B.M. Bolker, J.P. Collins, T.L. Cheng, M.C. Fisher, J.R. Hoyt, D.L. Lindner, H.I. McCallum, R. Puschendorf, E.B. Rosenblum, M. Toothman, C.K.R. Willis, **C.J. Briggs**, A.M. Kilpatrick. 2015. Context dependent conservation responses to emerging wildlife diseases. *Frontiers in Ecology and the Environment*. 13(4): 195-202.

2014

- Jani, A.J. and **C.J. Briggs**. 2014. The pathogen *Batrachochytrium dendrobatidis* disturbs the frog skin microbiome in natural epidemics and experimental infection. *Proceedings of the National Academy of Sciences*. 111:E5049–E5058, doi: 10.1073/pnas.1412752111.
- Voyles, J., L.R. Johnson, **C.J. Briggs**, S.D. Cashins, R.A. Alford, L. Berger, L.F. Skerratt, R. Speare, E.B. Rosenblum. 2014. Experimental evolution alters the rate and temporal pattern of population growth in *Batrachochytrium dendrobatidis*, a lethal fungal pathogen of amphibians. *Ecology and Evolution*. doi: 10.1002/ece3.1199.
- Voyles, J., A.M. Kilpatrick, J.P. Collins, M.C. Fisher, W.F. Frick, H. McCallum, C.K. R. Willis, D.S. Blehert, K.A. Murray, R. Puschendorf, E.B. Rosenblum, B.M. Bolker, T.L. Cheng, K.E. Langwig, D.L. Linder, M. Toothman, M.Q. Wilber, and **C.J. Briggs**. 2014. Moving

Beyond Too Little, Too Late: Managing Emerging Infectious Diseases Requires International Action *EcoHealth*. DOI: 10.1007/s10393-014-0980-5

2013

Rosenblum, E.B., T.Y. James, K.R. Zamudio, T.J. Poorten, D. Ilut, D. Rodriguez, J.M. Eastman, K. Richards-Hrdlicka, S. Joneson, T.S. Jenkinson, J. Longcore, G. Parra Olea, L.F. Toledo, M.L. Arellano, E.M. Medina, S. Restrepo, S.V. Flechas, L. Berger, **C.J. Briggs**, and J.E. Stajich. 2013. Complex history of the amphibian-killing chytrid fungus revealed with genome resequencing data. *Proceedings of the National Academy of Sciences*. 110:9385–9390.

2012

Fisher, M.C., D.A. Henk, **C.J. Briggs**, J.S. Brownstein, L.C. Madoff, S.L. McCraw, and S.J. Gurr 2012. Emerging fungal threats to animal, plant and ecosystem health. *Nature*. 484:186-194.

Voyles, J., L.R. Johnson, **C.J. Briggs**, S.D. Cashins, R.A. Alford, L. Berger, L.F. Skerratt, R. Speare, and E.B. Rosenblum. 2012. Temperature alters reproductive life history patterns in *Batrachochytrium dendrobatidis*, a lethal pathogen associated with the global loss of amphibians. *Ecology and Evolution*. 2(9):2241-9.

Swei, A., **C.J. Briggs**, R. Lane, and R.S. Ostfeld. 2012. Impacts of an introduced forest pathogen on risk of Lyme disease in California. *Vector-Borne and Zoonotic Diseases*. 12:623-632.

Voyles, J., V.T. Vredenburg, T.S. Tunstall, J.M. Parker, **C.J. Briggs**, and E.B. Rosenblum. 2012. Pathophysiology in mountain yellow-legged frogs (*Rana muscosa* and *Rana sierrae*) during a chytridiomycosis outbreak, *PLoS ONE*. 7(4): e35374.doi:10.1371/journal.pone.0035374

Woodhams, D.C., C.C. Geiger, L.K. Reinert, L.A. Rollins-Smith, B. Lam, R.N. Harris, **C.J. Briggs**, V.T. Vredenburg, J. Voyles. 2012. Treatment of amphibians infected with chytrid fungus: learning from failed trials with itraconazole, antimicrobial peptides, bacteria, and heat therapy. *Diseases of Aquatic Organisms*. 98:11-25.

Briggs, C.J. 2012. Nicholson-Bailey Host-Parasitoid Model. in *Encyclopedia of Theoretical Ecology*, A. Hastings and L. Gross, Editors, University of California Press.

Nisbet, R.M. and **C.J. Briggs**. 2012. Stage Structure. in *Encyclopedia of Theoretical Ecology*, A. Hastings and L. Gross, Editors, University of California Press.

Garner, T.W.J., **C.J. Briggs**, J. Bielby, and M.C. Fisher. 2012. Determining when parasites of amphibians are conservation threats to their hosts: methods and perspectives. Pages 521-538 in A. Aguirre, R. Ostfeld, and P. Daszak, editors. *New Directions in Conservation Medicine: Applied Cases of Ecological Health*. Oxford University Press, Oxford.

2011

Vredenburg, V.T., **C.J. Briggs**, and R. Harris. 2011. Host-pathogen dynamics of amphibian chytridiomycosis: The role of the skin microbiome in health and disease. Pages 342-355 in L. E. Olsen, E. R. Choffnes, D.A. Relman, and L. Pray, Editors. *Fungal Diseases: An Emerging Challenge to Human, Animal, and Plant Health*. The National Academies Press, Washington, D.C.

Knapp, R.A., **C.J. Briggs**, T.C. Smith, and J.R. Maurer. 2011. Nowhere to hide: impact of a temperature-sensitive amphibian pathogen along an elevation gradient. *Ecospheres*. 2:art93. doi:10.1890/ES11-00028.1

- Swei, A., J.J.L. Rowley, D. Rodder, M.L.L. Diesmos, A.C. Diesmos, **C.J. Briggs**, R. Brown, T.T. Cao, T.L. Cheng, B. Han, J. Hero, D.H. Hoang, M.D. Kusriani, T.T.D. Le, M. Meegaskumbura, T. Neang, S. Phimmack, D. Rao, N.M.M. Reeder, S.D. Schoville, N. Sivongxay, N. Srei, M. Stöck, B. Stuart, L. Torres, T.A.D. Tran, T.S. Tunstall, D. Vieites, and V.T. Vredenburg. 2011. Is chytridiomycosis an emerging infectious amphibian disease in Asia? *PLoS ONE*. 6(8): e23179. doi:10.1371/journal.pone.0023179
- Woodhams, D.C., J. Bosch, **C.J. Briggs**, S.D. Cashins, L.R. Davis, A. Lauer, E. Muths, R. Puschendorf, B.R. Schmidt, B. Shaefer, and J. Voyles. 2011. Mitigating amphibian disease: Strategies to maintain wild populations. *Frontiers in Zoology*. 2011, 8:8 doi:10.1186/1742-9994-8-8.
- Swei, A., R. Ostfeld, R. Lane, and **C.J. Briggs**. 2011. Impact of the experimental removal of lizards on Lyme disease risk. *Proceedings of the Royal Society B*. 278 (1720) 2970-2978.
- Johnson, L.R. and **C.J. Briggs**. 2011. Parameter inference for an individual based model of chytridiomycosis in frogs. *Journal of Theoretical Biology*. 277(1):90-98.
- Swei, A., R. Ostfeld, R. Lane, and **C.J. Briggs**. 2011. Effects of an invasive forest pathogen on abundance of ticks and their vertebrate hosts in a California Lyme disease focus. *Oecologia*. 166(1):91-100.
- Swei, A., **C.J. Briggs**, R. Meentemeyer, and R. Lane. 2011. Influence of abiotic and environmental factors on the density and infection prevalence of *Ixodes pacificus* (Acari: Ixodidae) with *Borrelia burgdorferi*. *Journal of Medical Entomology*. 48(1):20-28.
- 2010
- Briggs, C.J.**, R.A. Knapp, and V.T. Vredenburg. 2010. Enzootic and epizootic dynamics of the chytrid fungal pathogen of amphibians. *Proceedings of the National Academy of Sciences*, 107:9695-9700.
- Vredenburg V.T., R.A. Knapp, T.S. Tunstall, and **C.J. Briggs**. 2010. Large-scale amphibian dieoffs driven by the dynamics of an emerging infectious disease. *Proceedings of the National Academy of Sciences*, 107:9689-9694.
- Stice, M. J. and **C.J. Briggs**. 2010. Immunization is ineffective at preventing infection and mortality due to the amphibian chytrid fungus, *Batrachochytrium dendrobatidis*. *Journal of Wildlife Diseases*, 46(1):70-77.
- Kilpatrick, A.M., **C.J. Briggs**, and P. Daszak. 2010. The ecology and impact of chytridiomycosis, an emerging disease of amphibians. *Trends in Ecology and Evolution*, 25(2):109-118.
- 2009
- Harris, R.N., R.M. Brucker, J.B. Walke, M.H. Becker, C.R. Schwantes, D.C. Flaherty, B.A. Lam, D.C. Woodhams, **C.J. Briggs**, V.T. Vredenburg and K. P.C. Minbiole. 2009. Skin microbes on frogs prevent morbidity and mortality caused by a lethal skin fungus. *The ISME Journal*, 3(7):818-824.
- Briggs, C. J.** (2009) Host-Parasitoid Interactions. 2009. Pages 213-219 In Princeton Guide to Ecology.
- 2008
- Greer, A. L., **C. J. Briggs**, and J. P. Collins. 2008. Testing a key assumption of host-pathogen theory: density and disease transmission. *Oikos*, 117: 1667-1673.
- Killilea, M. E., A. Swei, R.S. Lane, **C.J. Briggs**, and R.S. Ostfeld. 2008. Spatial dynamics of Lyme disease: A review. *EcoHealth*, 5(2):167-195.

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