



Erin Mordecai

Associate Professor of Biology and Senior Fellow at the Woods Institute for the Environment

 NIH Biosketch available Online

Bio

BIO

My research focuses on the ecology of infectious disease. I am interested in how climate, species interactions, and global change drive infectious disease dynamics in humans and natural ecosystems. This research combines mathematical modeling and empirical work.

I finished my PhD in 2012 at the University of California Santa Barbara in Ecology, Evolution, and Marine Biology. I then completed a 2-year NSF postdoctoral research fellowship in the Intersection of Biology and Mathematical and Physical Sciences and Engineering at the University of North Carolina at Chapel Hill and North Carolina State University. I have been at Stanford since January 2015.

ACADEMIC APPOINTMENTS

- Associate Professor, Biology
- Senior Fellow, Stanford Woods Institute for the Environment
- Member, Bio-X
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)

HONORS AND AWARDS

- Leading Interdisciplinary Collaborations Fellow, Woods Institute for the Environment, Stanford University (2018-2019)
- Early Career Fellow, Ecological Society of America (2019)
- Walter J. Gores Award for Teaching, Stanford University (2019)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Affiliate, Woods Institute for the Environment (2018 - present)
- Editorial Advisory Board Member, Lancet Planetary Health (2019 - present)
- Member, Jasper Ridge Faculty Advisory Committee (2015 - present)
- Associate Editor, Ecology Letters (2019 - present)
- Faculty Fellow, Center for Innovation in Global Health (2015 - present)
- Faculty Fellow, King Center on Global Development (2019 - present)

PROFESSIONAL EDUCATION

- B.S., University of Georgia , Honors Interdisciplinary Studies in Mathematical Biology (2007)
- PhD, University of California Santa Barbara , Ecology, Evolution, and Marine Biology (2012)

LINKS

- My Lab Website: <http://www.mordecailab.com/#about-marquee>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our research focuses on the ecology of infectious disease. We are interested in how climate, species interactions, and global change drive infectious disease dynamics in humans and natural ecosystems. This research combines mathematical modeling and empirical work. Our main study systems include vector-borne diseases in humans and fungal pathogens in California grasses.

Teaching

COURSES

2021-22

- Introduction to Ecology: BIO 81 (Aut)

2020-21

- Ecology and Evolution of Infectious Disease in a Changing World: BIO 2N (Spr)

2018-19

- Ecology and Evolution of Infectious Disease in a Changing World: BIO 2N (Spr)
- Introduction to Ecology: BIO 81 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Sindiso Nyathi, Magdalena Warren

Postdoctoral Faculty Sponsor

Caroline Glidden, Kelsey Lyberger, Victor Pena Garcia

Doctoral Dissertation Advisor (AC)

Lisa Couper, Isabel Delwel, Johannah Farner, Mallory Harris, Nicole Nova

Doctoral Dissertation Co-Advisor (AC)

Marissa Childs

Doctoral (Program)

Marissa Childs, Mallory Harris, Nicole Nova

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (Phd Program)
- Epidemiology (Phd Program)

Publications

PUBLICATIONS

- **Global Health Impacts for Economic Models of Climate Change: A Systematic Review and Meta-Analysis.** *Annals of the American Thoracic Society*
Cromar, K. R., Anenberg, S. C., Balmes, J. R., Fawcett, A. A., Ghazipura, M., Gohlke, J. M., Hashizume, M., Howard, P., Lavigne, E., Levy, K., Madrigano, J., Martinich, J. A., Mordecai, et al

1800

- **Physiology and ecology combine to determine host and vector importance for Ross River virus.** *eLife*
Kain, M. P., Skinner, E. B., van den Hurk, A. F., McCallum, H., Mordecai, E. A.
2021; 10
- **How will mosquitoes adapt to climate warming?** *eLife*
Couper, L. I., Farner, J. E., Caldwell, J. M., Childs, M. L., Harris, M. J., Kirk, D. G., Nova, N., Shocket, M., Skinner, E. B., Uricchio, L. H., Exposito-Alonso, M., Mordecai, E. A.
2021; 10
- **Understanding the emergence of contingent and deterministic exclusion in multispecies communities** *ECOLOGY LETTERS*
Song, C., Uricchio, L. H., Mordecai, E. A., Saavedra, S.
2021
- **Effects of changes in temperature on Zika dynamics and control.** *Journal of the Royal Society, Interface*
Ngonghala, C. N., Ryan, S. J., Tesla, B., Demakovsky, L. R., Mordecai, E. A., Murdock, C. C., Bonds, M. H.
2021; 18 (178): 20210165
- **The interplay of policy, behavior, and socioeconomic conditions in early COVID-19 epidemiology in Georgia.** *medRxiv : the preprint server for health sciences*
Harris, M. J., Tessier-Lavigne, E., Mordecai, E. A.
2021
- **Native perennial and non-native annual grasses shape pathogen community composition and disease severity in a California grassland.** *The Journal of ecology*
Kendig, A. E., Spear, E. R., Daws, S. C., Flory, S. L., Mordecai, E. A.
2021; 109 (2): 900-912
- **The influence of vector-borne disease on human history: socio-ecological mechanisms.** *Ecology letters*
Athni, T. S., Shocket, M. S., Couper, L. I., Nova, N., Caldwell, I. R., Caldwell, J. M., Childress, J. N., Childs, M. L., De Leo, G. A., Kirk, D. G., MacDonald, A. J., Olivarius, K., Pickel, et al
2021
- **Climate predicts geographic and temporal variation in mosquito-borne disease dynamics on two continents.** *Nature communications*
Caldwell, J. M., LaBeaud, A. D., Lambin, E. F., Stewart-Ibarra, A. M., Ndenga, B. A., Mutuku, F. M., Krystosik, A. R., Ayala, E. B., Anyamba, A., Borbor-Cordova, M. J., Damoah, R., Grossi-Soyster, E. N., Heras, et al
2021; 12 (1): 1233
- **Environmental Drivers of Vector-Borne Diseases** *POPULATION BIOLOGY OF VECTOR-BORNE DISEASES*
Shocket, M. S., Anderson, C. B., Caldwell, J. M., Childs, M. L., Couper, L. I., Han, S., Harris, M. J., Howard, M. E., Kain, M. P., MacDonald, A. J., Nova, N., Mordecai, E. A., Drake, et al
2021: 85-118
- **Household and climate factors influence Aedes aegypti presence in the arid city of Huaquillas, Ecuador.** *PLoS neglected tropical diseases*
Martin, J. L., Lippi, C. A., Stewart-Ibarra, A. M., Ayala, E. B., Mordecai, E. A., Sippy, R., Heras, F. H., Blackburn, J. K., Ryan, S. J.
2021; 15 (11): e0009931
- **The impact of long-term non-pharmaceutical interventions on COVID-19 epidemic dynamics and control: the value and limitations of early models.** *Proceedings. Biological sciences*
Childs, M. L., Kain, M. P., Harris, M. J., Kirk, D., Couper, L., Nova, N., Delwel, I., Ritchie, J., Becker, A. D., Mordecai, E. A.
2021; 288 (1957): 20210811
- **Response to Valle and Zorello Laporta: Clarifying the Use of Instrumental Variable Methods to Understand the Effects of Environmental Change on Infectious Disease Transmission.** *The American journal of tropical medicine and hygiene*
MacDonald, A. J., Mordecai, E. A.
2021
- **Human-mediated impacts on biodiversity and the consequences for zoonotic disease spillover.** *Current biology : CB*
Glidden, C. K., Nova, N., Kain, M. P., Lagerstrom, K. M., Skinner, E. B., Mandle, L., Sokolow, S. H., Plowright, R. K., Dirzo, R., De Leo, G. A., Mordecai, E. A.
2021; 31 (19): R1342-R1361

- **Chopping the tail: How preventing superspreading can help to maintain COVID-19 control.** *Epidemics*
Kain, M. P., Childs, M. L., Becker, A. D., Mordecai, E. A.
2020; 34: 100430
- **Susceptible host availability modulates climate effects on dengue dynamics.** *Ecology letters*
Nova, N., Deyle, E. R., Shocket, M. S., MacDonald, A. J., Childs, M. L., Rypdal, M., Sugihara, G., Mordecai, E. A.
2020
- **Habitat type and interannual variation shape unique fungal pathogen communities on a California native bunchgrass** *FUNGAL ECOLOGY*
Farner, J. E., Spear, E. R., Mordecai, E. A.
2020; 48
- **Habitat type and interannual variation shape unique fungal pathogen communities on a California native bunchgrass.** *Fungal ecology*
Farner, J. E., Spear, E. R., Mordecai, E. A.
2020; 48
- **Impact of prior and projected climate change on US Lyme disease incidence.** *Global change biology*
Couper, L. I., MacDonald, A. J., Mordecai, E. A.
2020
- **Native perennial and non-native annual grasses shape pathogen community composition and disease severity in a California grassland** *JOURNAL OF ECOLOGY*
Kendig, A. E., Spear, E. R., Daws, S., Flory, S., Mordecai, E. A.
2020
- **Climate change could shift disease burden from malaria to arboviruses in Africa** *LANCET PLANETARY HEALTH*
Mordecai, E. A., Ryan, S. J., Caldwell, J. M., Shah, M. M., LaBeaud, A.
2020; 4 (9): E416–E423
- **Age influences the thermal suitability of Plasmodium falciparum transmission in the Asian malaria vector Anopheles stephensi** *PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
Miazgowicz, K. L., Shocket, M. S., Ryan, S. J., Villena, O. C., Hall, R. J., Owen, J., Adanlawo, T., Balaji, K., Johnson, L. R., Mordecai, E. A., Murdock, C. C.
2020; 287 (1931): 20201093
- **AeDES: a next-generation monitoring and forecasting system for environmental suitability of Aedes-borne disease transmission** *SCIENTIFIC REPORTS*
Munoz, A. G., Chourio, X., Riviere-Cinnamond, A., Diuk-Wasser, M. A., Kache, P. A., Mordecai, E. A., Harrington, L., Thomson, M. C.
2020; 10 (1): 12640
- **The Role of Vector Trait Variation in Vector-Borne Disease Dynamics.** *Frontiers in ecology and evolution*
Cator, L. J., Johnson, L. R., Mordecai, E. A., Moustaid, F. E., Smallwood, T. R., LaDeau, S. L., Johansson, M. A., Hudson, P. J., Boots, M., Thomas, M. B., Power, A. G., Pawar, S.
2020; 8
- **Chopping the tail: how preventing superspreading can help to maintain COVID-19 control.** *medRxiv : the preprint server for health sciences*
Kain, M. P., Childs, M. L., Becker, A. D., Mordecai, E. A.
2020
- **Climate change could shift disease burden from malaria to arboviruses in Africa.** *The Lancet. Planetary health*
Mordecai, E. A., Ryan, S. J., Caldwell, J. M., Shah, M. M., LaBeaud, A. D.
2020; 4 (9): e416–e423
- **Transmission of West Nile and five other temperate mosquito-borne viruses peaks at temperatures between 23°C and 26°C.** *eLife*
Shocket, M. S., Verwillow, A. B., Numazu, M. G., Slamani, H., Cohen, J. M., El Moustaid, F., Rohr, J., Johnson, L. R., Mordecai, E. A.
2020; 9
- **Warming temperatures could expose more than 1.3 billion new people to Zika virus risk by 2050.** *Global change biology*
Ryan, S. J., Carlson, C. J., Tesla, B. n., Bonds, M. H., Ngonghala, C. N., Mordecai, E. A., Johnson, L. R., Murdock, C. C.
2020
- **An open challenge to advance probabilistic forecasting for dengue epidemics (vol 116, pg 24268, 2019)** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

- Johansson, M. A., Apfeldorf, K. M., Dobson, S., Devita, J., Buczak, A. L., Baugher, B., Moniz, L. J., Bagley, T., Babin, S. M., Guven, E., Yamana, T. K., Shaman, J., Moschou, et al
2019; 116 (51): 26087–88
- **Towards common ground in the biodiversity-disease debate.** *Nature ecology & evolution*
Rohr, J. R., Civitello, D. J., Halliday, F. W., Hudson, P. J., Lafferty, K. D., Wood, C. L., Mordecai, E. A.
2019
 - **An open challenge to advance probabilistic forecasting for dengue epidemics.** *Proceedings of the National Academy of Sciences of the United States of America*
Johansson, M. A., Apfeldorf, K. M., Dobson, S., Devita, J., Buczak, A. L., Baugher, B., Moniz, L. J., Bagley, T., Babin, S. M., Guven, E., Yamana, T. K., Shaman, J., Moschou, et al
2019
 - **Amazon deforestation drives malaria transmission, and malaria burden reduces forest clearing.** *Proceedings of the National Academy of Sciences of the United States of America*
MacDonald, A. J., Mordecai, E. A.
2019
 - **Mosquito and primate ecology predict human risk of yellow fever virus spillover in Brazil.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*
Childs, M. L., Nova, N., Colvin, J., Mordecai, E. A.
2019; 374 (1782): 20180335
 - **Dynamic and integrative approaches to understanding pathogen spillover.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*
Becker, D. J., Washburne, A. D., Faust, C. L., Pulliam, J. R., Mordecai, E. A., Lloyd-Smith, J. O., Plowright, R. K.
2019; 374 (1782): 20190014
 - **The problem of scale in the prediction and management of pathogen spillover.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*
Becker, D. J., Washburne, A. D., Faust, C. L., Mordecai, E. A., Plowright, R. K.
2019; 374 (1782): 20190224
 - **Thermal biology of mosquito-borne disease.** *Ecology letters*
Mordecai, E. A., Caldwell, J. M., Grossman, M. K., Lippi, C. A., Johnson, L. R., Neira, M., Rohr, J. R., Ryan, S. J., Savage, V., Shocket, M. S., Sippy, R., Stewart Ibarra, A. M., Thomas, et al
2019
 - **A global test of ecoregions (vol 2, pg 1889, 2018) NATURE ECOLOGY & EVOLUTION**
Smith, J. R., Letten, A. D., Ke, P., Anderson, C. B., Hendershot, J., Dhami, M. K., Dlott, G. A., Grainger, T. N., Howard, M. E., Morrison, B. L., Routh, D., San Juan, P. A., Mooney, et al
2019; 3 (4): 708
 - **Author Correction: A global test of ecoregions.** *Nature ecology & evolution*
Smith, J. R., Letten, A. D., Ke, P., Anderson, C. B., Hendershot, J. N., Dhami, M. K., Dlott, G. A., Grainger, T. N., Howard, M. E., Morrison, B. M., Routh, D., Juan, P. A., Mooney, et al
2019
 - **Global expansion and redistribution of Aedes-borne virus transmission risk with climate change** *PLOS NEGLECTED TROPICAL DISEASES*
Ryan, S. J., Carlson, C. J., Mordecai, E. A., Johnson, L. R.
2019; 13 (3)
 - **Priority Effects and Nonhierarchical Competition Shape Species Composition in a Complex Grassland Community** *AMERICAN NATURALIST*
Uricchio, L. H., Daws, S., Spear, E. R., Mordecai, E. A.
2019; 193 (2): 213–26
 - **ENVIRONMENTAL AND DEMOGRAPHIC RISK FACTORS FOR AEDES AEGYPTI VECTOR PERSISTENCE IN URBAN AND RURAL KENYA**
Nyathi, S., Ngugi, H. N., Krystosik, A., Ndenga, B., Bisanzio, D., Kitron, U., Mordecai, E., LaBeaud, D., Mutuku, F.
AMER SOC TROP MED & HYGIENE.2019: 445
 - **Climate drives spatial variation in Zika epidemics in Latin America.** *Proceedings. Biological sciences*

- Harris, M. n., Caldwell, J. M., Mordecai, E. A.
2019; 286 (1909): 20191578
- **Global expansion and redistribution of Aedes-borne virus transmission risk with climate change.** *PLoS neglected tropical diseases*
Ryan, S. J., Carlson, C. J., Mordecai, E. A., Johnson, L. R.
2019; 13 (3): e0007213
 - **Malaria smear positivity among Kenyan children peaks at intermediate temperatures as predicted by ecological models.** *Parasites & vectors*
Shah, M. M., Krystosik, A. R., Ndenga, B. A., Mutuku, F. M., Caldwell, J. M., Otuka, V. n., Chebii, P. K., Maina, P. W., Jembe, Z. n., Ronga, C. n., Bisanzio, D. n., Anyamba, A. n., Damoah, et al
2019; 12 (1): 288
 - **PREDICTING SPILLOVER OF YELLOW FEVER VIRUS TO HUMANS USING VECTOR AND PRIMATE ECOLOGY**
Childs, M. L., Nova, N., Colvin, J., Mordecai, E. A.
AMER SOC TROP MED & HYGIENE.2019: 411
 - **CLIMATE CHANGE COULD EXPOSE 1.3 BILLION NEW PEOPLE TO ZIKA VIRUS TRANSMISSION RISK BY 2050**
Ryan, S., Carlson, C. J., Tesla, B., Bonds, M. H., Ngonghala, C. N., Mordecai, E. A., Johnson, L. R., Murdock, C. C.
AMER SOC TROP MED & HYGIENE.2019: 439
 - **TEMPERATURE DRIVES MALARIA TRANSMISSION: IMPLICATIONS FOR DISEASE CONTROL**
Murdock, C., Miazgowicz, K., Mordecai, E., Ryan, S., Hall, R.
AMER SOC TROP MED & HYGIENE.2019: 472
 - **IMPACT OF HOUSEHOLD CHARACTERISTICS ON AEDES AEGYPTI ABUNDANCE IN RURAL ECUADOR**
Sippy, R., Heras, F., Ibarra, A., Ryan, S., Mordecai, E.
AMER SOC TROP MED & HYGIENE.2019: 50
 - **A global test of ecoregions** *NATURE ECOLOGY & EVOLUTION*
Smith, J. R., Letten, A. D., Ke, P., Anderson, C. B., Hendershot, J., Dhami, M. K., Dlott, G. A., Grainger, T. N., Howard, M. E., Morrison, B. L., Routh, D., San Juan, P. A., Mooney, et al
2018; 2 (12): 1889–96
 - **A global test of ecoregions.** *Nature ecology & evolution*
Smith, J. R., Letten, A. D., Ke, P., Anderson, C. B., Hendershot, J. N., Dhami, M. K., Dlott, G. A., Grainger, T. N., Howard, M. E., Morrison, B. M., Routh, D., San Juan, P. A., Mooney, et al
2018
 - **Foliar pathogens are unlikely to stabilize coexistence of competing species in a California grassland** *ECOLOGY*
Spear, E. R., Mordecai, E. A.
2018; 99 (10): 2250–59
 - **Foliar pathogens are unlikely to stabilize coexistence of competing species in a California grassland.** *Ecology*
Spear, E. R., Mordecai, E. A.
2018
 - **Temperature explains broad patterns of Ross River virus transmission.** *eLife*
Shocket, M. S., Ryan, S. J., Mordecai, E. A.
2018; 7
 - **Temperature explains broad patterns of Ross River virus transmission** *ELIFE*
Shocket, M., Ryan, S. J., Mordecai, E. A.
2018; 7
 - **Temperature drives Zika virus transmission: evidence from empirical and mathematical models** *PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
Tesla, B., Demakovskiy, L. R., Mordecai, E. A., Ryan, S. J., Bonds, M. H., Ngonghala, C. N., Brindley, M. A., Murdock, C. C.
2018; 285 (2884)
 - **Estimating the effects of variation in viremia on mosquito susceptibility, infectiousness, and R-0 of Zika in Aedes aegypti** *PLOS NEGLECTED TROPICAL DISEASES*

Tesla, B., Demakovsky, L. R., Packiam, H. S., Mordecai, E. A., Rodriguez, A. D., Bonds, M. H., Brindley, M. A., Murdock, C. C.

2018; 12 (8): e0006733

- **Seasonal temperature variation influences climate suitability for dengue, chikungunya, and Zika transmission** *PLOS NEGLECTED TROPICAL DISEASES*
Huber, J. H., Childs, M. L., Caldwell, J. M., Mordecai, E. A.
2018; 12 (5): e0006451
- **PHENOMENOLOGICAL FORECASTING OF DISEASE INCIDENCE USING HETEROSKEDASTIC GAUSSIAN PROCESSES: A DENGUE CASE STUDY** *ANNALS OF APPLIED STATISTICS*
Johnson, L. R., Gramacy, R. B., Cohen, J., Mordecai, E., Murdock, C., Rohr, J., Ryan, S. J., Stewart-Ibarra, A. M., Weikel, D.
2018; 12 (1): 27–66
- **BUILDING ECOLOGY INTO MODELS TO PREDICT ARBOVIRUS DYNAMICS**
Caldwell, J., Mutuku, F., Ndenga, B., Mordecai, E., LaBeaud, D.
AMER SOC TROP MED & HYGIENE.2018: 63
- **IMPACTS OF TEMPERATURE ON ZIKA VIRUS TRANSMISSION POTENTIAL**
Tesla, B., Demakovsky, L., Mordecai, E., Bonds, M., Ngonghala, C., Brindley, M., Murdock, C.
AMER SOC TROP MED & HYGIENE.2018: 502
- **TEMPERATURE DRIVES ZIKA VIRUS TRANSMISSION: EVIDENCE FROM EMPIRICAL AND MATHEMATICAL MODELS**
Tesla, B., Demakovsky, L., Mordecai, E., Ryan, S., Bonds, M., Ngonghala, C., Brindley, M., Murdock, C.
AMER SOC TROP MED & HYGIENE.2018: 23
- **EFFECTS OF TEMPERATURE ON ZIKA, DENGUE AND CHIKUNGUNYA TRANSMISSION BY AEDES AEGYPTI AND AE-ALBOPICTUS**
Mordecai, E., Cohen, J., Evans, M., Johnson, L. R., Gudapati, P., Miazgowicz, K., Murdock, C. C., Rohr, J., Ryan, S. J., Savage, V., Ibarra, A., Thomas, M. B., Shocket, et al
AMER SOC TROP MED & HYGIENE.2017: 433–34
- **Disease ecology, health and the environment: a framework to account for ecological and socio-economic drivers in the control of neglected tropical diseases** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
Garchitorena, A., Sokolow, S. H., Roche, B., Ngonghala, C. N., Jocque, M., Lund, A., Barry, M., MORDECAI, E. A., Daily, G. C., Jones, J. H., Andrews, J. R., Bendavid, E., Luby, et al
2017; 372 (1722)
- **Detecting the impact of temperature on transmission of Zika, dengue, and chikungunya using mechanistic models.** *PLoS neglected tropical diseases*
Mordecai, E. A., Cohen, J. M., Evans, M. V., Gudapati, P., Johnson, L. R., Lippi, C. A., Miazgowicz, K., Murdock, C. C., Rohr, J. R., Ryan, S. J., Savage, V., Shocket, M. S., Stewart Ibarra, et al
2017; 11 (4)
- **A novel framework to account for ecological drivers in the control and elimination of environmentally transmitted disease: a modelling study**
De Leo, G. A., Sokolow, S. H., Garchitorena, A., Ngonghala, C. N., Lund, A., Barry, M., Burke, K. S., Mordecai, E. A., Daily, G. C., Jones, J. H., Andrews, J. R., Bendavid, E., Luby, et al
ELSEVIER SCIENCE INC.2017: 5
- **Environmental and Social Change Drive the Explosive Emergence of Zika Virus in the Americas.** *PLoS neglected tropical diseases*
Ali, S., Gugliemini, O., Harber, S., Harrison, A., Houle, L., Ivory, J., Kersten, S., Khan, R., Kim, J., LeBoa, C., Nez-Whitfield, E., O'Marr, J., Rothenberg, et al
2017; 11 (2)
- **Mathematical models are a powerful method to understand and control the spread of Huanglongbing** *PEERJ*
Taylor, R. A., Mordecai, E. A., Gilligan, C. A., Rohr, J. R., Johnson, L. R.
2016; 4
- **A framework for priority effects** *JOURNAL OF VEGETATION SCIENCE*
Fukami, T., Mordecai, E. A., Ostling, A.
2016; 27 (4): 655–57
- **The role of competition - colonization tradeoffs and spatial heterogeneity in promoting trematode coexistence** *ECOLOGY*
Mordecai, E. A., Jaramillo, A. G., Ashford, J. E., Hechinger, R. F., Lafferty, K. D.
2016; 97 (6): 1484-1496

- **The role of competition - colonization tradeoffs and spatial heterogeneity in promoting trematode coexistence.** *Ecology*
Mordecai, E. A., Jaramillo, A. G., Ashford, J. E., Hechinger, R. F., Lafferty, K. D.
2016; 97 (6): 1484-1496
- **The role of drought- and disturbance-mediated competition in shaping community responses to varied environments** *OECOLOGIA*
Napier, J. D., Mordecai, E. A., Heckman, R. W.
2016; 181 (2): 621-632
- **The rise and fall of infectious disease in a warmer world.** *F1000Research*
Lafferty, K. D., Mordecai, E. A.
2016; 5
- **Within-Host Niche Differences and Fitness Trade-offs Promote Coexistence of Plant Viruses** *AMERICAN NATURALIST*
Mordecai, E. A., Gross, K., Mitchell, C. E.
2016; 187 (1): E13-E26
- **Mapping Physiological Suitability Limits for Malaria in Africa Under Climate Change** *VECTOR-BORNE AND ZOONOTIC DISEASES*
Ryan, S. J., McNally, A., Johnson, L. R., Mordecai, E. A., Ben-Horin, T., Paaijmans, K., Lafferty, K. D.
2015; 15 (12): 718-725
- **Controls over native perennial grass exclusion and persistence in California grasslands invaded by annuals** *ECOLOGY*
Mordecai, E. A., Molinari, N. A., Stahlheber, K. A., Gross, K., D'Antonio, C.
2015; 96 (10): 2643-2652
- **Differential Impacts of Virus Diversity on Biomass Production of a Native and an Exotic Grass Host** *PLOS ONE*
Mordecai, E. A., Hindenlang, M., Mitchell, C. E.
2015; 10 (7)
- **Pathogen impacts on plant diversity in variable environments** *OIKOS*
Mordecai, E. A.
2015; 124 (4): 414-420
- **The community ecology of pathogens: coinfection, coexistence and community composition** *ECOLOGY LETTERS*
Seabloom, E. W., Borer, E. T., Gross, K., Kendig, A. E., Lacroix, C., Mitchell, C. E., Mordecai, E. A., Power, A. G.
2015; 18 (4): 401-415
- **Understanding uncertainty in temperature effects on vector-borne disease: a Bayesian approach** *ECOLOGY*
Johnson, L. R., Ben-Horin, T., Lafferty, K. D., McNally, A., Mordecai, E., Paaijmans, K. P., Pawar, S., Ryan, S. J.
2015; 96 (1): 203-213
- **Despite spillover, a shared pathogen promotes native plant persistence in a cheatgrass-invaded grassland** *ECOLOGY*
Mordecai, E. A.
2013; 94 (12): 2744-2753
- **Consequences of Pathogen Spillover for Cheatgrass-Invaded Grasslands: Coexistence, Competitive Exclusion, or Priority Effects** *AMERICAN NATURALIST*
Mordecai, E. A.
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