

CURRICULUM VITAE

Liwang Cui

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Citizenship

United States of America

Education

University of Kentucky, USA, PhD in Molecular Virology , 1996	1991-1996
Moldova Academy of Sciences, Moldova Agricultural University, Former USSR, PhD in Biology , 1991	1986-1991
Shenyang Agricultural University, China, BS in Entomology , 1984	1980-1984

Postgraduate Training

Postdoctoral Fellow , Walter Reed Army Institute of Research, Washington, DC.	1997-1998
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Awards, Honors, Honorary Society Memberships

Fellow, American Society for Microbiology	2022
USF preeminent scholar	2018
Alex and Jessie C. Black Award for Excellence in Research, Penn State University.	2010
Fulbright Senior Scholar to Thailand; Adjunct Professor at Mahidol University	2007-2008
Faculty Development - International Collaboration Award, College of Agricultural Sciences, PSU (\$2,000)	2005
International Travel Award, College of Agricultural Sciences, PSU	2003
Travel Award from the Fogarty International Center, NIH, to attend the 1 st International Conference on Vivax Malaria in Bangkok, Thailand	2002
Joan Luerssen Faculty Enhancement Award, College of Agricultural Sciences, PSU	2000
President's Award, Student Paper Competition, Section B, National Meeting of the Entomological Society of America, Las Vegas, Nevada	1995
T. J. Headlee Memorial Graduate Fellowship, Department of Entomology, Rutgers University	1993-1994
Marion Johnson Graduate Fellowship, Graduate School, Rutgers University	1992-1993

Appointments (academic, administrative, hospital, other)

David Cohen Professor, Department of Internal Medicine, USF	2018-present
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Professor, Department of Entomology, The Pennsylvania State University (PSU) 2009-2018
Associate Professor with tenure, Department of Entomology, PSU 2006-2009
Assistant Professor, Department of Entomology, PSU 2000-2006
Research Assistant Professor, Department of Preventive Medicine, F. Edward Hebert School of Medicine, Uniformed Services University of the Health Sciences, Bethesda, Maryland. 1998-2000

Teaching, Lecture

ENT/V402w Biology of Animal Parasites (3 credits) at PSU. A writing intensive introductory course to the biology of parasitic organisms that cause human and animal diseases (protozoan, metazoan and parasitic/vector arthropods). Co-developed with R. Van Saun, cross-listed with Vet Science. Taught every spring semester, total of 17 times. 2001-2018

ENT 597F/K Current Topics in Arthropod-vectoring Diseases (1 credit). An advanced course about the current status of emerging and reemerging arthropod-borne infectious diseases. Taught twice. 2002, 2005

ENT 597C Insect Genomics, Proteomics, Bioinformatics (2 credits). An integrated course on genomics, proteomics, and bioinformatics with an emphasis on insects. Focus on both concepts and applied technologies. New core graduate course in Entomology, taught once. 2002

ENT597G Insect Pathology (3 credits). An advanced course to the biology of 5 large insect pathogen groups (viruses, bacteria, fungi, protozoa, and nematodes), the principles of insect diseases, their significance in economic insects, and their uses in microbial control of insect pests. Co-developed and team-taught once with 1 other faculty member) 2001

IBIOS 597D Benchmark Papers (2 credits). An advanced course in biology for graduate students of the IBIOS program of the Huck Institute of Life Sciences. (team-taught twice, 20%) 2003, 2006

VSC 520 Pathobiology (3 credits). The course deals with the mechanisms of diseases. The course deals with the mechanisms of diseases. Topics are: homeostasis, vascular injury, inflammation, neoplasia, genetic disorders, and biochemical toxicology. (Guest lectures) 2001, 2002

VBSC 445 Molecular Epidemiology of Infectious Diseases. (Guest lectures) 2003

Teaching, Supervisory

Director of the Southeast Asia Malaria Research Center, responsible for training postdocs and graduate students performing research on malaria biology and epidemiology. Currently there are 8 postdocs and one PhD students enrolled in the lab. 2018-present

Formally supervised postdoctoral scholars:

Dr. Faiza Amber Siddiqui, April 2015-present
Dr. Xiaoying Liang, August 2017-present

Dr. Amuza Lucky, September 2017–present
Dr. Junling Qin, March 2019–present
Dr. Awtum Brashear, May 2020–present
Dr. Ahmad Rushdi Shakri, July 2020–present
Dr. Anong-ruk Chimong, September 2020–present
Dr. Md. Kalamuddin, October 2020–present
Dr. Azhar Muneer, October 2020–present

Principal investigator, responsible for training postdocs and graduate students performing research on malaria biology and epidemiology. During this period, supervised 18 postdoctoral scholars, 14 graduate students, and 4 undergraduate students. 2000-2018

Lectures by Invitation (international, national, regional, local)

Organizer, meeting symposium “Malaria parasite epidemiology and population dynamics during elimination”, Joint International Tropical Medicine Meeting (JITMM). **Speaker**, “Population dynamics and structure of Plasmodium vivax in the Greater Mekong Subregion during malaria elimination”. I was also a committee member for the meeting organization. 12/15-16/2020

“Drug-resistant Malaria in SE Asia: epidemiology, mechanisms, and surveillance”. Biomolecular Sciences Institute, Florida International University 11/30/2020

“Drug resistance in malaria parasites in SE Asia: epidemiology, mechanisms and solution”, Department of Infectious Diseases, University of Georgia 1/27/2020

Invited Panel Member “Art-GUND: Evolving Artemisinin Resistance Workshop” at Georgetown University. Invite only, select group of 40 individuals from around the world to discuss future priorities to combating artemisinin/antimalarial drug resistance. Organized by international leaders in malaria. 11/17-19/2019

“Molecular epidemiology of drug resistant malaria in the Greater Mekong Subregion”, US-Japan meeting on emerging infectious diseases of the Pacific rims, Plenary session speaker, Hanoi, Vietnam 2/27/2019

“Drug resistance in malaria parasites: field and lab perspectives”. 2017 International Symposium on Molecular Medicine and Infectious Diseases, Drexel University 11/14/2017

“International grant competition – opportunities and participation”. China Medical University-Queens University Symposium on biomedical research 5/12/2017

“Malaria elimination in Southeast Asia: Systematic research guides integrated control”, Department of Entomology and Plant Sciences, Rutgers University 4/12/2017

- “Southeast Asia ICEMR: accelerating regional malaria elimination”,
World Malaria Day Symposium, Johns Hopkins Malaria Institute 4/25/2016
- “Malaria 2014: Advances in Pathophysiology, Biology and Drug
Development”, The New York Academy of Sciences 4/25/2014
- “Southeast Asian ICEMR: Coordinated Research Activities Towards
Malaria Control and Elimination from the Greater Mekong Subregion”,
US-Japan Panel Meeting for Infectious Diseases, Dhaka, Bangladesh 2/8-13/2014
- “An update on the mechanism of artemisinin resistance in *Plasmodium
falciparum*”, International Symposium on Parasitic Diseases, Guiyang,
China, Keynote speaker 8/10-12/2013
- “Translational regulation during sexual development: the Puf story”,
School of Veterinary Medicine, University of Pennsylvania 4/19/2012
- “Malaria sexual development: regulation of translation”, Michigan State
University 1/31/2011
- “Malaria parasite epigenome: vulnerable targets for treatment”,
Department of Biochemistry & Cellular and Molecular Biology,
Georgetown University 11/16/2010
- “Epigenetics of the malaria parasite”, Johns Hopkins University, School
of Public Health 10/2/2010
- “Chromatin-mediated gene regulation in malaria parasite”, The 4th
Nagasaki Symposium on Tropical and Emerging Infectious Diseases 11/24-28/2009
- Organizer, mini-symposium on vivax malaria research, sponsored by the
Fogarty International Center, Mahidol University, Thailand 7/15-17/2008
- “The current status of *Plasmodium vivax* malaria culture”, the Indo-U.S.
Vaccine Action Program Workshop on *Plasmodium vivax* Vaccine R&D,
New Delhi, India 6/17-20/2008
- Organizer and speaker, International Grant Writing Workshop, Faculty of
Science, Mahidol University, Thailand 3/27/2008
- “Epigenetics in malaria parasites”, Department of Pathobiology, Faculty
of Science, Mahidol University, Thailand 2/11/2008
- “The histone acetyltransferases as regulators of malaria parasite gene
expression”, Malaria Network Symposium, Singapore 1/30/2008
- Symposium on “Vector-Borne Disease Research: The Road Ahead”
organized by Virginia Tech, Blacksburg, VA 10/13-15/2006

“A malaria HAT – Target for chemotherapy?” Distinguished Alumni Seminar Series, Department of Entomology, University of Kentucky	9/8/2006
Invited Speaker to deliver 6 lectures in Molecular Parasitology within “Lectures in the Collaborative Research Network in Pathology” series, Faculty of Science, Mahidol University, Mahidol University	9/21-30/2005
“Sexual development in the malaria parasite: Function of the Puf proteins”, Department of Cellular and Molecular Physiology, Penn State College of Medicine, Hershey	5/25/2005
“Malaria postgenomics: Understanding the functions of parasite HAT complex in transcription regulation”, Department of Microbiology, School of Medicine, Drexel University	12/16/2004
“Bioethics in medical research”, training workshop on bioethics, supported by Fogarty International Center, Qingrai, Thailand	10/28-31/2004
“Approaches to population genetics of the <i>P. vivax</i> malaria parasite”, Armed Forces Research Institute of Medical Sciences, Thailand	2/17/2003
“Research in Protozoan Pathogens”, East African Regional Workshop, Killifi, Kenya, co-taught with 4 other faculty	05/22-25/2002
“Characterization of <i>Leishmania</i> exo-antigens”, Department of Defense Program on Leishmaniasis, Fort Detrick, MD. Sponsored by DoD	5/28/2001

Scholarly Activity (grant history)

A) Current Grants

Agency: NIH/Fogarty International Center
I.D.#: D43-TW011509-01A1
Title: “Training in Malaria Research in Myanmar”
P.I.: Liwang Cui, PhD
Percent effort: 1 month
Direct costs per year: \$244,376
Total costs for project period: \$1,221,800
Project period: **02/01/2021** – 01/31/2026

Agency: NIH/NIAID
ID#: 3U19AI089672-13S1
Title: Southeast Asia Malaria Research Center – competitive revision”
P.I.: Liwang Cui, PhD
Percent effort: 1 month
Direct costs per year: \$957,600
Total costs for project period: \$3,140,100
Project period: **4/1/2021** – 03/31/2024

Agency: NIH/NIAID
I.D.#: R21

Title: “Development of CRISPR/dCas-based epigenetic gene regulation tools in malaria parasite”
P.I.: Jun Miao, PhD
Percent effort: 0.5 months
Direct costs per year: \$150,000
Total costs for project period: \$411,125
Project period: 01/13/2020 – 12/31/2021

Agency: NIH/NIAID
I.D.# U19 AI089672
Title: “Southeast Asia Malaria Research Center”
P.I.: Liwang Cui, PhD
Percent effort: 5.5 months
Direct costs per year: \$1,289,590
Total costs for project period: \$9,206,056
Project period: 04/01/2017 – 03/31/2024

Agency: NIH/NIAID
ID#: 3U19AI089672-11S1
Title: Southeast Asia Malaria Research Center – competitive revision”
P.I.: Liwang Cui, PhD
Percent effort: 1 month
Direct costs per year: \$710,727
Total costs for project period: \$1,421,454
Project period: 4/1/2019 – 03/31/2021

Agency: NIH/NIAID
ID#: 3U19AI089672-S (no-cost extension)
Title: Southeast Asia Malaria Research Center – Administrative supplement: Sugar feeding and resting behaviors of malaria vectors”
P.I.: Liwang Cui, PhD
Percent effort: 1 month
Direct costs per year: \$800,000
Total costs for project period: \$800,000
Project period: 4/1/2020 – 03/31/2022

Agency: NIH/NIAID
I.D.# R01 AI128940
Title: “Molecular Mechanisms of Artemisinin Resistance”
P.I.: Liwang Cui, PhD
Percent effort: 1 month
Direct costs per year: \$190,204
Total costs for project period: \$1,000,000
Project period: 12/01/2016 – 11/30/2021

B) Past Grants

Agency: NIH/Fogarty International Center
I.D.# D43 TW006571
Title: “Enhancing Vivax Malaria Research in Thailand”
P.I.: Liwang Cui, PhD

Percent effort: 10%
Total costs for project period: \$1,352,000
Project period: 2014 – 2018

Agency: NIH/NIAID
I.D.# U19 AI089672
Title: “Administrative supplement to Southeast Asia Malaria
Research Center”
P.I.: Liwang Cui, PhD
Percent effort: 5%
Total costs for project period: \$184,911
Project period: 2018

Agency: NIH/NIAID
I.D.# R21AI12393
Title: “Transcriptomes and Proteomes of Plasmodium vivax”
P.I.: Liwang Cui, PhD
Percent effort: 10%
Total costs for project period: \$374,930
Project period: 2016-2018

Agency: NIH/NIAID
I.D.# R01 AI104946
Title: “Puf-Mediated Translation Control in Plasmodium”
P.I.: Liwang Cui, PhD
Percent effort: 20%
Total costs for project period: \$1,460,978
Project period: 2014-2018

Agency: NIH/NIAID
I.D.# R21AI12393
Title: “Transcriptomes and Proteomes of Plasmodium vivax”
P.I.: Liwang Cui, PhD
Percent effort: 10%
Total costs for project period: \$374,930
Project period: 2016-2018

Agency: Clinical and Translational Science Institute, PSU
Title: “Portable and Field-Deployable Malaria Molecular
Diagnostic System”
P.I.: Weihua Guan, PhD
Role on Project: Co-investigator
Percent effort: 20%
Total costs for project period: \$39,500
Project period: 2016-2017

Agency: NIH/NIAID
I.D.# 1U19 AI089672
Title: “Southeast Asia Malaria Research Center”
P.I.: Liwang Cui, PhD
Percent effort: 40%

Total costs for project period: \$14,893,522
Project period: 2010 –2017

Agency: NIH/NIAID
I.D.# U19 AI089672
Title: “Gender and Malaria: Administrative supplement to Southeast Asia Malaria Research Center”
P.I.: Liwang Cui, PhD
Percent effort: 5%
Total costs for project period: \$100,000
Project period: 2013

Agency: NIH/NIAID
I.D.# U19 AI089672
Title: “Bioinformatics Supplement: Administrative Supplement to Southeast Asia Malaria Research Center”
P.I.: Liwang Cui, PhD
Percent effort: 5%
Total costs for project period: \$194,878
Project period: 2013

Agency: NIH/NIAID
I.D.# 1R21 AI098058
Title: “Sex-Specific Gene Expression in Malaria Parasite Plasmodium”
P.I.: Liwang Cui, PhD
Percent effort: 10%
Total costs for project period: \$409,750
Project period: 2012 – 2014

Agency: NIH/Fogarty International Center
I.D.# R03TW008940
Title: “Malaria Vector Population Genetic Division and Vector Competence in Hainan Island”
P.I.: Liwang Cui, PhD
Percent effort: 5%
Total costs for project period: \$131,590
Project period: 2012 – 2014

Agency: NIH/NIAID
I.D.# R21AI085518
Title: “Mechanism of Artemisinin Resistance in Selected Malaria Parasite Lines”
P.I.: Liwang Cui, PhD
Percent effort: 10%
Total costs for project period: \$407,000
Project period: 2010 – 2012

Agency: NIH/NIGMS
I.D.# R01GM080586
Title: “Evolution of Plasmodium vivax and Asian Macaque

Malarias”

P.I.: Ananias Escalante, PhD
Role on Project: Co-PI
Percent effort: 15%
Total costs for project period: \$331,600 (Cui); \$1,840,069 (total)
Project period: 2008 – 2012

Agency: NIH/NIAID
Title: “Administrative Supplement (ARRA), US-China
Collaboration in Biomedicine”
P.I.: Liwang Cui, PhD
Percent effort: 5%
Total costs for project period: \$143,000
Project period: 2011

Agency: NIH/NIAID
I.D.# R01AI064553
Title: “Malaria HATs in Transcription Regulation”
P.I.: Liwang Cui, PhD
Percent effort: 30%
Total costs for project period: \$1,766,378
Project period: 2007 – 2011

Agency: NIH/NIAID
I.D.# 3R01AI064553-01A2S1
Title: “Malaria HATs in Transcription Regulation. Research
Supplements for Underrepresented Minorities (RSUM)”
P.I.: Liwang Cui, PhD
Percent effort: 5%
Total costs for project period: \$216,826
Project period: 2007 – 2011

Agency: NIH/NIAID
I.D.# R21 AI078263
Title: “Vector Community Structure and Malaria
Epidemiology”
P.I.: Liwang Cui, PhD
Percent effort: 10%
Total costs for project period: \$434,250
Project period: 2008 – 2010

Agency: NIH/NINDS
I.D.# R21 NS063866
Title: “Development of A Cell-based Assay for High
Throughput Screening in Malaria Parasite”
P.I.: Liwang Cui, PhD
Percent effort: 10%
Total costs for project period: \$205,968
Project period: 2008 – 2010

Agency: NIH/Fogarty International Center

I.D.# D43 TW006571
Title: “Enhancing Vivax Malaria Research in Thailand”
P.I.: Liwang Cui, PhD
Percent effort: 10%
Total costs for project period: \$750,000
Project period: 2004 – 2009

Agency: NIH/NIAID
I.D.# R21AI069126
Title: “Plasmodium vivax: Proteomic Analysis of Asexual and Sporozoite Stages”
P.I.: Liwang Cui, PhD
Percent effort: 15%
Total costs for project period: \$398,750
Project period: 2006 – 2008

Agency: NIH/NIAID
I.D.# R01AI46472
Title: “Translational Control in Plasmodium Sexual Development”
P.I.: Liwang Cui, PhD
Percent effort: 530%
Total costs for project period: \$1,036,823
Project period: 2001 – 2006

Agency: NIH/NIAID
I.D.# R01AI46472-S1
Title: “Translational Control in Plasmodium Sexual Development – Research Supplements for Underrepresented Minorities (RSUM)”
P.I.: Liwang Cui, PhD
Percent effort: 5%
Total costs for project period: \$209,975
Project period: 2002 – 2006

Agency: World Health Organization
I.D.# Special Programme in Tropical Disease Research
Title: “The Proteome of the Malaria Parasite Plasmodium vivax”
P.I.: Liwang Cui, PhD
Percent effort: 5%
Total costs for project period: \$27,000
Project period: 2005 – 2006

Agency: Pennsylvania Department of Agriculture
Title: “Improving Honey Bee Health through Managing Viruses and Varroa Mites”
P.I.: Diana Cox-Foster, PhD
Role on Project: Co-PI

Percent effort: 10%
Total costs for project period: Cui \$48,478 (Total \$145,436)
Project period: 2004 – 2006

Agency: NIH/Fogarty International Center
I.D.# D43 TW006571-06
Title: “Enhancing vivax malaria research in Thailand –
Supplement for the organization of a P. vivax culture workshop”
P.I.: Liwang Cui, PhD
Percent effort: 5%
Total costs for project period: \$50,000
Project period: 2005

Agency: IPM CRSP, USAID
Title: “Molecular Probes to Distinguish Gall Midge Species.
PI: Shelby Fleischer”
P.I.: Shelby Fleischer, PhD
Role on Project: Co-PI
Percent effort: 10%
Total costs for project period: Cui, \$31,858 (Total \$63,717)
Project period: 2002 – 2004

Agency: Pennsylvania Department of Agriculture
I.D.# ME 400492
Title: “IPM Control Methods for Catastrophic Honey Bee
Colony Loss Associated with Parasitic Mites”
P.I.: Diana Cox-Foster, PhD
Role on Project: Co-PI
Percent effort: 10%
Total costs for project period: Cui, \$35,000 (Total \$210,000)
Project period: 2001 – 2003

Agency: U.S. Army Medical Research and Materiel Command,
DoD
Title: “Characterization of Leishmania Soluble Exo-Antigens”
P.I.: Samuel Martin, MD
Role on Project: Co-PI
Percent effort: 10%
Total costs for project period: Cui, \$50,000
Project period: 2001 – 2002

Published Bibliography

2022

1. Zhang, X., Wei, H., Zhang, Y., Zhao, Y., Wang, L., Hu, Y., Nguitrageool, W., Sattabongkot, J., Adams, J., **Cui, L.**, Cao, Y., Wang, Q. 2022. Genetic diversity of *Plasmodium vivax* reticulocyte binding protein 2b in global parasite populations. *Parasit. Vectors* (in press)

2. Zhong, D., Aung, P.L., Mya, M.M., Wang, X., Qin, Q., Soe, M.T., Zhou, G., Kyaw, M.P., Sattabongkot, J., **Cui, L.**, Yan, G. 2022. Community structure and insecticide resistance of malaria vectors in northern-central Myanmar. *Parasit. Vectors* 15, e155.
3. Liang, X., Boonhok, R., Siddiqui, F.A., Xiao, B., Li, X., Qin, J., Min, H., Jiang, L., **Cui, L.**, Miao, J. 2022. A leak-free inducible CRISPRi/a system for gene functional studies in *Plasmodium falciparum*. *Microbiol. Spectr.* (in press)
4. Wang, P., Jiang, X., Zhu, L., Zhou, D., Hong, M., He, L., Chen, L., Yao, S., Zhao, Y., Chen, G., Wang, C., **Cui, L.**,* Cao, Y.,* Zhu, X.* 2022. A G-protein-coupled receptor modulates gametogenesis via PKG-mediated signaling cascade in *Plasmodium berghei*. *Microbiol. Spectr.* 10, 20015022.
5. Soe, M.T., Aung, P.L., Nyunt, M.H., Sein, M.M., Cho, C., Yang, Z., Menezes, L., Parker, D.M., Kyaw, M.P.,* **Cui, L.*** 2022. Therapeutic efficacy of chloroquine for uncomplicated *Plasmodium vivax* malaria in southeastern and western border areas of Myanmar. *Infection* (in press)
6. Qian, J., Wang, M., Wang, Z., Feng, R., Zhang, J., Ye, C., Zhang, M., Wang, B., **Cui, L.** 2022. Development of single- and multiplex immunoassays for rapid detection and quantitation of amodiaquine in ACT drugs and rat serum. *Anal. Bioanal. Chem.* 414, 1631-1640.

2021

7. Keleta, Y., Ramelow, J., **Cui, L.**, Li, J. 2021. Molecular interactions between parasite and mosquito during midgut invasion as targets to block malaria transmission. *npj Vaccines* 6, 140.
8. Aung, P.L., Soe, M.T., Soe, T. N., Oo, T.L. Aung, P.P. Khin, A., Thi, A., Phuanukoonnon, S., Okanurak, K., **Cui, L.**, Kyaw, M.P.,* Parker, D.M.* 2021. The acceptability of targeted mass treatment of an antimalarial drug in villages of a northern Myanmar township: A mixed-methods study. *Parasit Vectors* 14, e549.
9. Kumpitak, C., Nguitragool, W., **Cui, L.**, Sattabongkot, J., Bantuchai, S. 2021. Detection of *Plasmodium* sporozoites in *Anopheles* Mosquitoes using an enzyme-linked immunosorbent assay. *J. Visualized Exp.* 175, e63158.
10. Zeng, W., Zhao, H., Zhao, W., Yang, Q., Li, X., Li, X., Duan, M., Wang, X., Li, C., Xiang, Z., Chen, X., **Cui, L.**,* Yang, Z.* 2021. Molecular surveillance and *ex vivo* drug susceptibilities of *Plasmodium vivax* isolates from the China–Myanmar border. *Front. Cell. Infect. Microbiol.* 11, e738075.
11. Qian, J., Wang, M., Zhang, M., Feng, R., Zhang, J., Ye, C., Wang, B.,* **Cui, L.*** 2021. Development and application of immunoassays for rapid quality control of the antimalarial drug combination artesunate-mefloquine. *J. Pharm. Biomed. Anal.* 207, e114342.
12. Bunmee, K., Thaenkham, U., Saralamba, N., Ponlawat, A., Zhong, D., **Cui, L.**, Sattabongkot, J., Sriwichai, P. 2021. Population genetic structure of the malaria vector *Anopheles minimus* in Thailand based on mitochondrial DNA markers. *Parasit. Vectors* 14, e496.
13. He, X., Zhong, D., Zou, C., Pi, L., Zhao, L., Qin, Y., Pan, M., Wang, S., Zeng, W., Xiang, Z., Wu, Y., Si, Y., **Cui, L.**, Huang, Y., Yan, G., Yang, Z. 2021. Unraveling the complexity of imported malaria infections by amplicon deep sequencing. *Front. Cell. Infect. Microbiol.* 11, e725859.

14. Miao, J.*, Wang, C., Lucky, A.B, Liang, X., Min, H., Adapa, S.R., Jiang, R., Kim, K., **Cui, L.*** 2021. A unique GCN5 histone acetyltransferase complex controls erythrocyte invasion and virulence in the malaria parasite *Plasmodium falciparum*. *PLoS Pathog.* 17, e1009351.
15. Zhang, Y., Liu, F., Zhao, Y., Yang, F., Bai, J., Jia, X., Roobsoong, W., Sattabongkot, J., **Cui, L.**, Cao, Y., Luo, E., Wang, M. 2021. Evaluation of two *Plasmodium vivax* sexual-stage antigens as transmission-blocking vaccine candidates. *Parasit. Vectors* 14, e407.
16. Yang, H.*, Wang, J., Liu, H., Zhao, Y., Lakshmi, S., Li, X., Nie, R., Li, C., Wang, H., Cao, Y., Menezes, L., **Cui, L.*** 2021. Efficacy and safety of a naphthoquine-azithromycin co-formulation for malaria prophylaxis in Southeast Asia: A phase 3, double-blind, randomized, placebo-controlled trial. *Clin. Infect. Dis.* 73, e2470-2476.
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18. Pooseesod, K., Parker, D.M., Meemon, N., Lawpoolsri, S., Singhasivanon, P., Sattabongkot, J., **Cui, L.**, Phuanukoonnon, S. 2021. Ownership and utilization of bed nets and reasons for use or non-use among community members at risk of malaria along the Thai-Myanmar border. *Malar. J.* 20, e305.
19. Liu, P., Shen, L., Wang, S., Qin, P., Si, Y., Pan, M., Zeng, W., Qin, Y., Chen, X., Zhang, Y., Li, C., Xiang, Z., Menezes, L., Huang, Y., **Cui, L.***, Yang, Z.* 2021. Increasing proportions of relapsing parasite species among imported malaria in China's Guangxi Province from Western and Central Africa. *Travel Med. Infect. Dis.* 43, e102130.
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21. Dong, Y., Li, C., Kim, K., **Cui, L.**, Liu, X. 2021. Genome annotation of disease-causing microorganisms. *Brief. Bioinform.* 22, 845-854.
22. Siddiqui, F., Liang, X., **Cui, L.** 2021. *Plasmodium falciparum* resistance to ACTs: emergence, mechanisms, and outlook. *Int. J. Parasitol. Drugs Drug Resist.* 16, 102-118.
23. Si, Y., Zeng, W., Li, N., Wang, C., Siddiqui, F., Zhang, J., Pe, L., He, X., Zhao, L., Wang, S., Zhao, H., Li, X.X., Yang, Q., Miao, J., Yang, Z.,* **Cui, L.*** 2021. *In vitro* susceptibility of *Plasmodium falciparum* isolates from the China-Myanmar border area to piperaquine and association with candidate markers. *Antimicrob. Agents Chemother.* 65, e02305-20.
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Book Chapters

309. Cui, L., Cao, Y., Kaewkungwal, J., Khamsiriwatchara, A., Lawpoolsri, S., Soe, T.N., Kyaw, M.P. Sattabongkot, J. 2018. Malaria elimination in the Greater Mekong Subregion: challenges and prospects. In *“Towards Malaria Elimination, a Leap Forward – Lessons Learned and Future Challenges”* (Eds. Manguin, S. and Dev, V.). Pp. 1-22.
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Other Research and Creative Achievements

Webb, B. A. and L. Cui. Viral and insect genes that inhibit the immune system and method of use thereof. Patent #5,827,518 1998

Service university, hospital/profession, scientific meetings, community service, society memberships, professional or scientific, international, national, regional, local, editorial positions

Grant review

Wellcome Trust Discovery Award grant reviewer (1, 3/30/2022)	March 2022
Fogarty International Center, Planning Grant for Global Infectious Disease Research Training Program (D71). Panel Chair	March 11, 2022
Research Foundation - Flanders (Fonds voor Wetenschappelijk Onderzoek, Belgium), Program grant	12/6/2021
Fogarty International Center, D43 grant study section	12/2/2021
Wellcome Trust postdoctoral fellowship grant reviewer	October, 2021
DoD CDMRP grant panels (CT-MAL, MAL) panel meeting	10/12/2021
e-Asia Joint Research Program panel meeting	7/7/2021
ANR (Agence Nationale De La Recherche) grant, France	June 2021
DoD CDMRP grant panels (Pre-MAL) panel meeting	June 7, 2021
Sir Henry Wellcome Fellowship	February 2021
DFG – Deutsche Grant Council	May 2020
British Medical Research Council	April 2020
Global Infectious Disease program – eAsia	June, 2020
British Society for Antimicrobial Chemotherapy	2019
<i>Ad hoc</i> review, NSF grants for BIO/Integrative Organismal Systems, Symbiosis, Defense and Self-Recognition Program	May 2019
<i>Ad hoc</i> member, NIH “Eukaryotic Parasites and Vectors” panel 2018/10 ZRG1 IDM-M (02)	7/10-11/2018
<i>Ad hoc</i> member, NIH “Microbiology and Infectious Diseases Research Committee” panel 2018/10 MID	6/7-8/2018
<i>Ad hoc</i> member, NIH special emphasis panel (ZRG1 IDM), Parasites-Vectors and Fungi. March and November	2017
<i>Ad hoc</i> member, NIH F30/31/32/33 Fellowship grant review panel	2016
<i>Ad hoc</i> member, NIH Eukaryotic Pathogen grant panel	2016
<i>Ad hoc</i> member (U19 grant), National Heart, Lung, Blood Institute, NIH	2015
<i>Ad hoc</i> member, Peer Reviewed Medical Research Program, Department of Defense - Congressionally Directed Medical Research Programs	2015
Member, Fulbright International Program grant panel	2008
NIH Tropical Medicine Research Centers (TMRC) Grant Panel	2006
Panel Member, Pathogenic Eukaryotes (PTHE) panel, NIAID, NIH	2007-2011

Ad hoc reviewer, USDA NRI Entomology/Nematology Panel 2002-2005
Ad hoc Member, National Institutes of Health, Tropical Medicine and Parasitology Competitive Grant Program, Entomology Panel, and Parasitology Panel. 2000-2006
Member, USDA, Arthropod and Nematode “Gateway to Genomics” review panel 2005

Editorial positions

Editorial Board, “BMC Infectious Diseases” 2020-present
Guest Editor, “Genes”; Special Issue *Genetics and Genomics of Malaria Parasites* in June 2019
Editorial Board, “Parasite Epidemiology and Control” 2018-present
Guest Editor, “PLoS Pathogens” 2015, 2017
Guest Editor, “PLoS Genetics” 2015
Editorial Board, “Asian Pacific Journal of Tropical Biomedicine” 2010-present
Academic Editor, “Malaria Research and Treatment” 2009-present

Manuscript review for scientific journals (15-20/year)

Acta Tropica; American Journal of Tropical Medicine and Hygiene; Annals of Tropical Medicine and Parasitology; Antimicrobial Agents and Chemotherapy; Apoptosis; Archives of Biochemistry and Biophysics; Archives of Insect Physiology and Biochemistry; BMC Evolutionary Biology; Biomolecular Engineering; Cellular Microbiology; eLife; eBioMedicine; Eukaryotic Cell; FEMS Microbiology Review; Insect Biochemistry and Molecular Biology; Insect Science; Infection, Genetics and Evolution; International Journal for Parasitology; Journal of Clinical Microbiology; Journal of Infectious Diseases; Journal of Insect Physiology; Journal of Medical Entomology; Journal of Molecular Sciences, Journal of Virological Methods; mBio; mSphere; Malarial Journal; Molecular and Cellular Biology; Molecular Medicine; Molecular Microbiology; Mycological Research; Parasites and Vectors; Parasitology; Pesticide Biochemistry and Physiology; Pharmaceuticals; PLoS One; PLoS Pathogens; PLoS NTD, PLoS Genetics; PLoS Medicine; Proteomics; Proceedings of the Royal Society of London Series B; Proceedings of the National Academy of Science USA; Science; Scientific Reports; Trends in Parasitology.

University services (at USF)

Promotion and tenure committee (Internal Medicine) 2019-present

University services (at Penn State University)

Departmental committee on candidate exams (Chair 2018) 2016-2018
University IBC committee 2008-2018
Departmental awards committee (Chair 2014) 2011-2015
College committee for Black Award 2012
Safety Committee (Chair 2002-2003; 2009) 2000–2009
Graduate Program Council (Chair 2006) 2003-2008
Space Planning Committee (Chair 2009) 2006-2009
Graduate Program and Recruiting Committee 2008-2018
West Nile Encephalitis Coordinating Committee 2000-2008
Academic Standards Committee 2006-2008

Faculty Advisory Committee to the Dean
Seminar Committee
Penn State Graduate Exhibition Judge

Cui, PhD
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