

CURRICULUM VITAE

KAMI KIM, M.D.

Andor Szentivanyi Professor of Medicine
Director, Division of Infectious Diseases and International Medicine
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Degrees and Training:

1976-1980	A.B.	Harvard University, Cambridge, MA
1980-1984	M.D.	Columbia College of Physicians & Surgeons, New York, NY
1984-1987		Intern and Resident, Medical Service, Columbia-Presbyterian Medical Center, New York, NY
1987-1988		Clinical Fellow, Division of Infectious Diseases, University of California, San Francisco.
1988-1990		Postdoctoral Fellow, Parasitology Laboratory, James Leech, M.D. and Richard Nelson, PhD., San Francisco General Hospital, UCSF.
1990-1994		Postdoctoral Fellow, Dept. Microbiology & Immunology

John Boothroyd, Ph.D., Stanford University, Stanford, CA.

Positions Held:

1988-1994	Attending Physician, San Francisco County Tuberculosis Clinic, San Francisco, CA.
1988-1994	Attending Physician, San Francisco General Hospital, University of California, San Francisco, CA.
1995-2002	Assistant Professor of Medicine and of Microbiology & Immunology, Albert Einstein College of Medicine, Bronx, NY.
2002-2007	Associate Professor of Medicine and of Microbiology & Immunology, Albert Einstein College of Medicine, Bronx, NY.
1997-2017	Attending Physician, Jacobi Medical Center, Bronx, NY Attending Physician, Montefiore Medical Center, Bronx, NY
2007-2017	Professor of Medicine and Microbiology & Immunology, Albert Einstein College of Medicine, Bronx, NY.
2008-2017	Director, Epigenomics of Infectious Diseases. Einstein Center for Epigenomics, New York, NY.
2008-2013	Co-Director, Geographic Medicine and Emerging Infections Training Program
2009-2017	Professor of Medicine and of Microbiology & Immunology with tenure, Albert Einstein College of Medicine, Bronx, NY.
2010-2017	Director, Einstein-Montefiore IVIS imaging facility
2013-2017	Professor of Medicine, Microbiology & Immunology and Pathology with tenure, Albert Einstein College of Medicine, Bronx, NY.
2013-2017	Director, Geographic Medicine and Emerging Infections Training Program
2014-2017	Director, Global Health Track, Einstein-Montefiore Infectious Diseases Fellowship Program.
2017-present	Adjunct Professor of Medicine, Microbiology & Immunology and Pathology, Albert Einstein College of Medicine, Bronx, NY
2017-present	Professor of Internal Medicine with tenure, Morsani College of Medicine, Joint Professor of Global and Planetary Health, College of Public Health, University of South Florida, Tampa, FL
2017-present	Attending Physician, Tampa General Hospital, Tampa, FL
2019-present	Director, Division of Infectious Diseases and International Medicine, Department of Internal Medicine, Morsani College of Medicine, University of South Florida, Tampa, FL
2020-present	Attending Physician, H Lee Moffitt Cancer Center, Tampa, FL
2020-present	Faculty Advisor, USF Health Bioinformatics and Computational Biology Core
2020-present	Joint Professor, Department of Molecular Medicine, Morsani College of Medicine, USF
2020-present	Andor Szentivanyi Professor of Medicine, Morsani College of Medicine, USF

Honors and Awards:

Magna Cum Laude - Harvard University 1980.
Bank of America-Giannini Foundation Fellowship for Medical Research 1988-89
National Research Service Award (NIH-NIAID) 1989-1992.
University of California University-wide AIDS Research Program Fellowship 1992-93
Clinical Investigator Award (K08; NIAID) 1993-96
NIH First Award (R29; NIAID) 1997-2002
NIH Independent Scientist Award (K02; NIAID) 1998-2003
Burroughs Wellcome New Investigator Award in Molecular Parasitology 1998-2001
Burroughs Wellcome New Initiatives in Malaria Research 2001-2003
American Society for Clinical Investigation 2004
Fellow, Infectious Diseases Society of America 2006
Fellow, American Academy for Microbiology 2013
Association of American Physicians 2013
Alpha Omega Alpha, USF Chapter Faculty Inductee 2020

Patents:

Transfection and genetic manipulations in obligate intracellular parasites. Inventors: Kami Kim, Dominique Soldati and John C. Boothroyd. Provisional 1993. USP 5,976,553 November 2, 1999

Analogues of Coformycin and their use for treating protozoan parasite infections. Inventors: Richard Furneaux, Peter Tyler, Gary Evans, Kami Kim, Vern Schramm. USP 8,394,950 March 12, 2013

Attenuated Malaria Blood-Stage Vaccine. Inventors: Kami Kim and Li-Min Ting. Provisional 2009.

3D Printed Swab for Diagnostic Testing - Improved Design #1 invention (USF Ref. 20A123UTL) Inventors: Summer Decker, PhD Jonathan Ford, PhD Todd Hazelton, MD Todd Goldstein, PhD Kami Kim, MD Michael Teng, PhD John Sinnott, MD Application 2020

Certification:

National Board of Medical Examiners 1985.
American Board of Internal Medicine 1987.
Subspecialty Boards-Infectious Diseases 1990; recertified 2000, 2013

Professional Societies:

Member: American Society for Microbiology
American Society for Tropical Medicine and Hygiene
American Society for Clinical Investigation
Infectious Diseases Society of America
American Society for Molecular Biology and Biochemistry
American Academy for Microbiology
Association of American Physicians

American Society of Microbiology:

Alternate Councilor, Division AA 2006-08

Councilor, Division AA 2008-10

Division AA chair-elect 2008-09, chair 2009-10, past chair 2010-11

Fellow, American Academy for Microbiology 2013

American Society for Tropical Medicine and Hygiene

American Committee on Molecular, Cellular and Immunoparasitology Executive Council liaison to Molecular Parasitology Meeting 2007

Annual meeting program committee (molecular parasitology subcommittee) 2014-present

Infectious Diseases Society of America

Fellow, IDSA

Annual Meeting Program Committee 2009-2012

Research Committee 2013-2016

IDSA liaison to the American Physician Scientist Association (APSA) 2014-2016

IDSA-NIH Research Careers Meeting Working Group 2015-present; Chair 2016-2018

IDSA Foundation Research Advisory Committee Co-Chair (with David Andes) 2018-present

IDSA Leadership Institute Selection Committee 2018-19

Other Professional Activities:

Peer review study sections:

Standing research review panels:

Military Infectious Diseases Research Program (MIDRP) malaria drug development study section 2002-2009

NIH AIDS-Associated Opportunistic Infections and Cancer (AOIC) study section July 2007-June 2012, Chair July 2010-June 2012

Burroughs Wellcome Fund Postdoctoral Research Enrichment Program (PDEP) Scientific Advisory Board 2014-present, Chair 2019-present

NIH Pathogenic Eukaryotes (PTHE) study section July 2015-present

Ad hoc reviewer:

NIH NIAID SBIR study section 3/97

NIH NIAID MIDRC study section 3/00; 6/00; 10/00; 3/01, 6/01, 2/02.

NIH NIAID AIDSRRRC study section 11/00, 6/02, 3/04

NIH AITRC study section 2/01; 2/02

NIH AOIC study section 3/06; 3/07

NIH PTHE study section 2/14

NIH NIAID special emphasis panels 11/01, 8/02, 11/02, 12/02, 12/03, 2/04, 3/05, 12/09, 8/12, 3/13, 6/13, 1/14, 4/16

USDA 2002.

NIH Loan Repayment Program special emphasis panel 2002; 2003, 2004.
Gates Grand Challenge 2004
March of Dimes 2006
Wellcome Trust 2008; 2012; 2014
European Commission 7th Framework Programme 2010
Israel Science Foundation 2013
European Research Council 2014
Fondation pour la Recherche Médicale 2014
Human Frontiers Science Program 2015
KAUST Competitive Research Grants program 2015
Netherlands Organization for Scientific Research (NWO) 2015, 2018

Journals:

Ad hoc reviewer for:

AIDS, American Journal of Pathology, Antimicrobial Agents and Chemotherapy, Archives in Ophthalmology, BMC Genomics, BMC Microbiology, Cell Host and Microbe, Cell Reports, Cellular Microbiology, Clinical Infectious Diseases, Clinical Microbiology Reviews, eLife, EMBO Reports, Eukaryotic Cell, Experimental Parasitology, Infection and Immunity, International Journal for Parasitology, Journal of Biological Chemistry, Journal of Cell Biology, Journal of Cell Science, Journal of Experimental Medicine, Journal of Infectious Diseases, Journal of Molecular Biology, Journal of Parasitology, Journal of Pediatric Infectious Diseases, mBio, Microbes and Infection, Molecular and Biochemical Parasitology, Molecular Microbiology, Nature, Nature Communications, Nature Methods, New England Journal of Medicine, Nucleic Acids Research, PLoS Biology, PLoS Genetics, PLoS Pathogens, PLoS One, PNAS, Scientific Reports, Traffic, Translational Research, Trends in Cell Biology, Trends in Parasitology

Guest editor “Toxoplasmosis” thematic issue (with Louis Weiss); International Journal for Parasitology March 2004

Guest editor “Host Microbe Interactions: Parasites” (with Honorine Ward) Current Opinion in Microbiology 2020

Editorial Boards

PLoS Pathogens: Section Editor Advisory Panel 2019-present, Parasitology
Pathogenesis Section Editor April 2009-present
Guest Associate Editor, 2006-2007; Associate Editor 2007-2009
PloS Biology: Editorial Board 2019-present
Sanford Guide for Antimicrobial Therapy; 2015-present
Molecular and Biochemical Parasitology: March 2007-present
International Journal for Infectious Diseases, Associate Editor: 2016-2018

Book editor “*Toxoplasma gondii*, the Model Apicomplexan: Perspectives and Methods”; Academic Press/Elsevier, Louis M. Weiss and Kami Kim, editors. First Edition 2007, Second Edition 2014, Third Edition 2020

Meetings Organized:

Co-organizer New York Area Apicomplexan Biology Meeting February 8, 2002
Organizer 7th International Congress on Toxoplasmosis (with Louis Weiss) May 23-27, 2003
Organizer Woods Hole Molecular Parasitology Meeting (with Noreen Williams and Artur Scherf),
2010-2012 Lead organizer 2010

External Advisory Activities:

AMDeC Center on Bioterrorism Infectious Disease and Genetics Discussion Group, Albert
Einstein College of Medicine representative. April 2002
ToxoDb.org External Scientific Advisory Board 2009-2019
Department of Medical Microbiology and Immunology, Bloomberg School of Public Health
Departmental External Review Panel September 2013
French Parasitology Network (ParaFrap), External Scientific Advisory Panel, 2012-present
Harvard University Ad-hoc Tenure Committee Feb 2014
University of Montpellier Faculty Diploma External Review Panel (JJ Lopez-Rubio) Sept 2014
Program in AIDS Clinical Research Training External Advisory Board (NIAID T32
Massachusetts General/Harvard Medical School, PI: Ken Freedberg, MD) Dec 2016

Invited Talks 2000-present:

University of Pennsylvania Graduate Program in Parasitology, May 2001
Mount Sinai School of Medicine, May 2001
University of Connecticut, Farmington, April 2002
Tufts University School of Veterinary Medicine, April 2002
Gordon Research Conference, Hormonal and Neural Peptide Biosynthesis Conference,
July 2002
Wadsworth Center, Albany, New York November 2002
Columbia College of Physicians and Surgeons, New York, NY, December 2002
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, March 2003
New York University School of Medicine, New York, NY March 2003
Conference on New and Re-Emerging Infectious Diseases, University of Illinois, April 2003
American Society for Tropical Medicine and Hygiene Annual Meeting, December 2003
Tufts University School of Medicine, January 2005
New York University School of Medicine, New York, NY March 2005
State University of New York Stony Brook, Stony Brook, NY September 2005
4th International Meeting of the International Proteolysis Society, Quebec City, Quebec Oct 2005
New York Blood Center, New York, NY November 2005
New York Medical College, Valhalla, NY April 2006
Biology of Parasitism Course, Woods Hole, MA August 2006
Notre Dame University, Notre Dame, IN March 2007

Polyamines Gordon Conference, June 2007
International Workshop on Parasitology; Toxoplasma centennial commemorative session,
Boston, MA May 2008
American Society for Microbiology Division F/AA Symposium, Boston, MA June 2008
Toxoplasma Centennial Congress: from discovery to public health management. Macae, Brazil
September 2008
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, November 2008
Seattle Biomedical Research Institute, Seattle, WA May 2009
Washington University, St. Louis, MO November 2009
New York University School of Medicine, New York, NY November 2009
Bay Area Parasitology Meeting (Stanford University) March 2010
Host Parasite Gordon Conference, June 2010
Drexel University, January 2011
Dartmouth Medical School, October 2011
Hunter College, April 2012
University of Virginia, June 2012
NIAID/IDSA Infectious Diseases Research Careers Meeting, June 2013
Hot Topics in Parasitology, Annual Meeting IDSA, October 2013
University of California, Irvine, February 2014
ParaFrap-French Parasitology Network meeting October 2014
Bloomberg School of Public Health, Johns Hopkins University October 2014
University of Alabama, Birmingham May 2015
University of Texas, Southwestern June 2015
Oregon Health Sciences University, April 2016
University of North Carolina, Chapel Hill, November 2016
University of Iowa, Iowa City December 2016
University of South Florida April 2017
Institute for Molecular Medicine, Lisbon, Portugal, May 2017
NYC area Parasitology Annual Meeting, Oct 2017
University of Louisville, December 2017
University of Pittsburgh, February 2018
Center for Infectious Diseases Research April 2018
University of North Carolina, Chapel Hill, May 2019
Clemson University, Clemson, SC, October 2019
University of Utah, Salt Lake City, January 2020

Meeting Presentations/Session Chair 2000-present:

Woods Hole Meeting of Molecular Parasitology: Woods Hole, MA September 2000.
“Apicomplexan Cell Biology” session chair and oral presentation.
International Toxoplasma Meeting: Freising, Germany. Session chair and oral presentation May
2001
Hormonal and Neural Peptide Biosynthesis Gordon Conference, invited short talk July 2002

Woods Hole Meeting of Molecular Parasitology: Woods Hole, MA September 2002. poster.
International Toxoplasma Meeting: Tarrytown, NY Meeting organizer and oral presentation May 2003
Proteolytic Enzymes and Their Inhibitors Gordon Conference, poster July 2004
Woods Hole Meeting of Molecular Parasitology: Woods Hole, MA September 2004. Session chair.
International Toxoplasma Meeting: Ajaccio, Corsica. Session chair May 2005
4th International Meeting of the International Proteolysis Society, Quebec City, Quebec invited talk October 2005
Northeast Biodefense Center 2006 Annual Meeting, October 2006 oral presentation and poster (representing the AECOM Biodefense Proteomics Center; Lake George, NY)
American Society for Tropical Medicine and Hygiene Meeting: ACMCIP molecular parasitology plenary session convener, Atlanta, GA, November 2006
American Society for Microbiology Division AA/F Session Convener May 2007 "Epigenetics" Polyamines Gordon Conference, invited talk June 2007
National Regional Centers of Excellence Meeting (as part of Northeast RCE) Chicago, IL April 2008, Oral presentation and poster.
International Workshop on Parasitology; Toxoplasma centennial commemorative session invited talk, Boston, MA May 2008
American Society for Microbiology Division F/AA Symposium, Convener (with Marta Feldmesser) and speaker "Novel Animal Models for Study of Eukaryotic Pathogens" Boston, MA June 2008
Toxoplasma Centennial Congress: from discovery to public health management. Invited talk. Macae, Brazil September 2008
American Society for Microbiology Division AA Symposium, Session Convener (with Marilyn Parsons) " The Application of Bench Science to Important Clinical Problems in Global Health: Bridging the Scientific Gaps " Philadelphia, PA May 2009
10th International Toxoplasma Meeting: Kerkrade, Netherlands, Session convener and Oral presentation June 2009
American Society for Microbiology Division AA Symposium, Session Convener (with Julie Gerberding) "The Impact of Humans and the Changing Environment on the Ecology and Spread of Global Infectious Diseases" San Diego, CA May 2010
Host-Parasite Gordon Conference, Invited speaker Systems Biology section, Newport, Rhode Island June 2010
Infectious Diseases Society of America Annual Meeting 2010, Session Convener (multiple sessions) October 2010
American Society for Microbiology Symposium Convener (with William Sullivan) "Systems Biology Approaches for Treatments for Infectious Diseases" New Orleans, LA May 2011
Toxo 14; International Congress on Toxoplasmosis, Tomar, Portugal May 2017

Teaching:

USF

Drug Development (course leaders Jim Leahy and Rays Jiang) Spring 2018 "Human Genetics and Drug Development" (2 h lecture and interactive session)

GMS6103 Foundations in Medical Microbiology (Course Leader Burt Andersen) Spring 2019, 2020 "Malaria" (2 h lecture and journal club)
IDS 6938 Transdisciplinary Science (Course Leader Howard Goldstein) Fall 2020 Clinical and Translational COVID-19 research: Pooled testing of USF Athletes. With Kevin Sneed, Amy Alman, Chighaf Bakfour, Tom Unnasch. (1.5 h)

Einstein:

Course Director:

Global infections: a translational research approach (with Victoria Freedman, PhD; Summer 2012) a combination of lectures, workshops, case discussions, and team based learning in an intensive 5 week course developed specifically for the Geographic Medicine and Emerging Infections Training Program.

Graduate Microbial Pathogenesis (5 credits; Spring 2001, Spring 2003, Spring 2005; co-director Spring 2007) a combination of lectures, student-led journal clubs and outside speakers meeting 3 times weekly.

Organizer, Faculty-Student Microbial Pathogenesis Journal Club (Summer 2000)

Lecturer:

Medical School Infectious Diseases Course (1 lecture/year; atypical pneumonia), 2002-2009

Graduate Microbial Pathogenesis (2-3 lectures; topics including introduction to microbial pathogenesis, basic bacterial pathogenesis and bacterial genetics, antigenic variation, epigenetics, *Toxoplasma gondii*, malaria), biannual course 1997-2012; Annual intensive course, one session 2013-present

Medical House Staff Conference (as requested; topics including toxoplasmosis, malaria, atypical pneumonia, CNS infections in AIDS)

AECOM/Montefiore Infectious Diseases Review Course (pulmonary infections), 2002-2004

Parasitology & Global Medicine (Malaria lecture and case conference) 2007-2015

Guided tutorial (4-6 individual sessions followed by oral examination, part of qualifying exam for Neurosciences graduate students: Will Schubert, Cathy Andorfer, Josie Snellman, Kenny Sossa)

Discussion Leader:

Graduate Critical Readings (1-2 topics/yr), 2000-2007

Responsible Conduct of Research (1-2 sessions/yr) 2003-2007; 2011 (lecturer and discussion leader); 2012 (lecturer), 2013 (lecturer)

Summer Undergraduate Research Program Summer 2002-04 (2 h weekly for 10 weeks)

Clinical Service:

University of South Florida:

Attending Physician Infectious Diseases Consultation Service (Tampa General Hospital 2018-present 6-8 weeks/yr)

Albert Einstein College of Medicine:

Attending Physician Infectious Diseases Consultation Service (Albert Einstein College of Medicine-Montefiore Medical Center 1997-2017 5-6 weeks/yr)

Attending Physician MD-PhD primary care clinic (Jacobi Medical Center 1998-2017 1 evening session/mo)

Educational Service:

University of South Florida:

Graduate Thesis Advisory Committees (PhD) avg 3-4 per academic year

2019-20: Justin Nicholas, Jyotsna Chalwa, Caroline Simmons

2020-21: Justin Nicholas, Jyotsna Chalwa, Caroline Simmons, Ishani Wickramage, Alexa Gannon

Mentoring Committees:

Thao Ho, MD 2018-present K-23 Awardee Department of Pediatrics

Mariana Argenziano, PhD 2020-present K-01 application USF Heart Institute

Albert Einstein College of Medicine:

Graduate Qualifying Examination Committees (2-4/year 1995-2017)

Graduate Thesis Advisory Committees (PhD) avg 3-4 per academic year (for 2017: Joshua Mayoral, Vincent Tu, Natalie Ramsey)

Graduate Thesis Defense Committees (all PhD): Yulin Wang 1996, Lin Chen 1998, Wendy Cleare 1999, Nickoletta Lendvai 1999, Jessie Browning 1999, Hong Zhao 1999, Andy Sikora 1999, Neelie Mozzafarian 2000, Angel Rosas 2000, Fleuridor Richardson 2000, Eric Hehl 2001, Monica Hamburgh 2001, Magi Khalil 2001, Emilie Wang 2002, Greg Kicska 2002, Johanna Rivera 2002, Jeff Newman 2002, Timothy Fisher 2002, Reid Schwebach 2002, Kenneth Curr 2003, Judith Steenbergen 2003, Sarah Gross 2004, Robert Maitta 2004, Kripa Jalapathy 2004, Javier Garcia-Rivera 2004, Jeff Rice 2004, Yanji Xu 2004, Grace Lee 2005, Tamika Burns 2005, Viswanathan Lakshmanan 2005, Robert Glover 2006, Xiang Xiao 2006, David Ferreiro 2006, Louis Nkrumah 2006, Vipender Singh 2006, Xiaoping Qing 2006, Sean McBride 2007, Stephanie Valdamos 2007, Bisram Deocharan 2008, Joshua Drumm 2008, Raynald Squires 2008, Min Yu 2008, Pedro Moura 2008, Adel Nour 2008, Rebecca Muhle 2008, Abe Guerrero 2009, Yubao Wang 2009, Tatsuya Yamada 2010, Aimee Luers 2010, Anthony Wong 2010, Beza Seyoum 2010, Joy Hazleton 2011, Lisa Glass 2013, Tadakimi Tomita 2014, Dionna Williams 2014, Jason McCarthy 2014, Lisa Brown 2015, Jorge Aguillar 2015; N. Ari Wijetunga 2015; Rachel Ames 2015; Chris Kerantzas 2016; Samantha Chalmers 2016; Rama Yakubu 2017, Joshua Mayoral 2020

External PhD thesis examiner: Teresa Santiago 2004 (Laboratory of Choukri Ben Mamoun, University of Connecticut); Ramya Natarajan 2005 (Laboratory of Photini Sinnis, New York University), Megan Downie 2007 (laboratory of Kiaran Kirk, Australia National University), Evelyn Chou 2018 (laboratory of Karen Day, University of Melbourne); Joshua Mayoral 2020 (Laboratory of Louis Weiss, Albert Einstein College of Medicine)

Pediatric Infectious Diseases Scientific Oversight Committee: Natasha Verma Nakra, MD 2010-2012

Adult Infectious Diseases Fellow Advisor: Julie Varughese 2010-2011

Training Grant Administration:

Albert Einstein College of Medicine:

Principal Investigator and Program Director, American Society for Microbiology sponsored community based minority summer undergraduate research program, Summer 2002, 2003, 2004

Director, Training Program in Geographic Medicine and Emerging Infections (NIH T32-funded) 2013-2017; Co-Director 2008-2013

University Service:

University of South Florida (2017-present):

USF MCOM Bioinformatics core faculty advisor 2020-present

USF MCOM Bioinformatics core faculty search chair 2019-2020

USF Microbiome faculty search 2019-present

USF Chair of Dermatology search 2019-20

USF ID clinical educator search chair (6 positions) 2019-present

USF ID basic researcher search (2 positions) 2019-present

USF University-wide Genomics Program faculty search committee (3 tenure-track faculty hires) 2017-2018

USF Genomics Program Executive Committee 2018-present

USF Genomics Program Working Group 2018-present; Chair 2018-2020

College of Pharmacy Promotions and Tenure committee 2018

USF Distinguished University Professor Selection Committee 2019-2022

USF Pandemic Response Research Network Task Force 2020-present; Co-chair Clinical and Translational Research Hub.

Albert Einstein College of Medicine (1995-2017):

Sue Golding Graduate Division Admissions Committee, Department of Microbiology & Immunology representative 1995-97

Department of Microbiology & Immunology Faculty Search Committee 1998-99; 2006

Sue Golding Graduate Division Julius Marmur Prize Committee (thesis prize) co-chair (1998) and chair (1999)

Sue Golding Graduate Committee, Department of Microbiology & Immunology representative 1998-2004

Department of Microbiology & Immunology Education Committee 1999-2005

AECOM Academic Senate, Department of Medicine representative 1999-2002; 2014-2016
Academic Senate Communications Committee 2015-2016

Graduate Committee Subcommittee on Graduate Students as Teaching Assistants Fall 2000

AECOM Academic Senate Council (elected member) 2001-2002

Division of Education Medical Student Research Committee 2001-2003

MSTP steering committee 2003-2017

Associate Professor Promotions Committee 2003-2005

Selection committee for Dean's Outstanding Postdoctoral Research Award October 2004

Sue Golding Graduate Division Curriculum Committee, Department of Microbiology & Immunology representative 2006-2009

Professor Promotions Committee 2007-2009

Department of Molecular Genetics Faculty Search Committee 2008-2009

Albert Einstein College of Medicine Cancer Center & Center for AIDS Research Pilot Project Review Committee Jan 2009; Jan 2012

Medical Student Research Committee June 2012-September 2016

Other Miscellaneous Community Service Activities:

Public School 6 (New York, NY) PTA Executive Board 2005-2007, 2nd grade representative 2005-06, Recording Secretary 2006-07

Public School 6 Chess Tournament Parent Coordinator 2005-2008

Park East Properties Cooperative Board 1998-2003; 2005-2010

Center for Public Interest Careers at Harvard College, NYC area Mentor 2007-2014

Columbia College of Physicians and Surgeons Class of 1984 25th Reunion Committee (May 2009)

Harvard University Schools Committee—alumni committee to interview candidates in NYC area for admission to Harvard College 2009-2015

Trinity School (New York, NY) 11th grade parent representative 2009-2010

Major Research Projects:

1. *Toxoplasma gondii* systems biology: an integrated approach to understanding *T. gondii* gene expression.

Using a multidisciplinary approach that includes genetics, cell biology, proteomics and high throughput sequencing, we are determining how epigenetic factors influence the development of *T. gondii* latency. We have characterized the epigenome of *Toxoplasma gondii* tachyzoites using genome wide chromatin immunoprecipitation (ChIP-chip and ChIP-seq) and the DNA binding specificities of a newly described family of Apicomplexan transcription factors (plant-like ApiAP2). The long-term goal is to understand the gene networks important for developmental transitions in *T. gondii* including the tachyzoite-bradyzoite transition important for *T. gondii* persistence. This project is a long-term collaboration with Louis Weiss, Albert Einstein College of Medicine.

2. Host and parasite factors contributing to severe malaria pathogenesis

Using a combination of molecular and cellular typing and clinical data we are studying the host and parasite factors important for pathogenesis of severe malaria. We have established that specific variant antigens, high parasite burden and low platelet counts correlate with disease severity and patient outcomes. We are extending these studies to determine whether specific markers are predictive of outcomes and host or parasite factors that may be responsible for disease pathogenesis with our collaborators from the Blantyre Malaria Project and Michigan State University (Terrie Taylor, Karl Seydel).

3. COVID-19

Since the first case of COVID-19 in Tampa, I have led the COVID-19 clinical response and research efforts of the ID division at Tampa General Hospital and USF. I have worked closely with numerous colleagues at TGH and USF. As part of these efforts I have established a BSL2/3 laboratory to study COVID-19 and a clinical biorepository for COVID-19 patients.

COVID Clinical Trials

1. Evaluation of 3D printed swabs for sample collection; clinical trial comparing 3D printed swabs to conventional flocculated nasopharyngeal swabs. 2020; Role PI (multi-site trial; TGH PI and overall clinical trial PI)
2. Regeneron -6R88- COV-2040 An Adaptive Phase 2/3, randomized, double-blind, placebo-controlled study assessing efficacy and safety of Sarilumab for hospitalized patients with COVID-19; Sponsor: Regeneron/ Sanofi Pasteur/Global Virus Network; 2020; Role: site PI
3. HERO registry Health care workers registry via Duke Clinical Research Center and PCORI Role: site co PI
4. HERO HCQ-Prophylaxis for HCW 2020; Sponsor: Duke Clinical Research Center and PCORI; Role co I
5. Regeneron R10933-10987- COV-2066 A Master Protocol Assessing the Safety, Tolerability, and Efficacy of Anti-Spike (S) SARS-CoV-2 Monoclonal Antibodies for the Treatment of Hospitalized Patients with COVID-19; Sponsor Regeneron/BARDA; Role: site PI
6. Regeneron R10933-10987-COV2067 A Master Protocol Assessing Safety and Efficacy of Anti-Spike SARS-CoV2 Monoclonal Antibodies for the Treatment of Ambulatory Patients with COVID-19 Role: site PI
7. Regeneron R10933-10987-COV2069 A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study Assessing the Efficacy and Safety of Anti-Spike SARS-CoV-2 Monoclonal Antibodies in Preventing SARS-Cov-2 Infection in Household Contacts of Individuals Infected with SARS-CoV-2 Role: site PI
8. Incyte A Phase 3 randomized, double-blind, placebo-controlled, multi-center study to assess the efficacy and safety of Ruxolitinib in patients with COVID-19-induced cytokine storm who require invasive mechanical ventilation (RUXCOVID-DEVENT). Role: co I
9. Romark Evaluating the potential of Nitazoxanide to prevent COVID-19 in Health Care workers Role: site PI
10. Abbott Clinical Evaluation of the Investigational IDNOW™ 1.1 COVID-19 Assay; Role: site PI

Other COVID studies

1. Biorepository of COVID-19 samples Role PI
2. Serological and virologic testing in assessment of immunity to COVID-19 Role PI
3. SARS-CoV screening in USF athletes Role col

Current laboratory funding:

USF COVID-19 Rapid Response Research Proposal
Serological Correlates to Immunity in SARS-CoV-2 Infection
Role: PI coPIs Adams, Teng, Unnasch
April-October 2020

USF COVID-19 Rapid Response Research Proposal
SARS-CoVid-19 Tissue-specific Susceptibility in Different Ethnic backgrounds.
PI: Thomas McDonald; Morsani College of Medicine
Role: Co-I
April-October 2020

NIH R01 AI134753 (Weiss) 06/01/2018 – 05/31/2023
Composition and formation of the cyst wall 0.6 cal mo
Dr. Kim advises on genetics and data integration strategies used to define the cyst wall interactome.

NIH R21AI148374 (Kim) 07/1/2019-06/30/2021
Toxoplasma gondii cAMP-dependent kinase PKAc3 regulation of bradyzoite formation 1.2 cal mo
The goal is to use a combination of proteomics, genetics and computational biology to determine how PKAc3 affects development of bradyzoites

NIH R01 AI141467(Suvorova) 05/08/2020-04/31/2025
Cyclin-mediated control of Toxoplasma development 0.6 calendar months
Studying central mechanisms that regulate the transition from proliferative tachyzoite to latent bradyzoite state of the parasite intermediate life cycle. Dr. Kim advises on epigenetic and gene expression experiments.

Prior funding:

NIH R01 AI122760 (White) 06/01/2016-05/31/2021
Subcontract: \$103,928/yr 0.6 cal mo
Studies of DNA licensing in the Apicomplexa
Subcontract from USF COPH to Kim
Dr. Kim's group performed proteomics experiments for this proposal in years 1-3.

NIH R01AI100569 (Riscoe) 12/01/13-11/30/17
Subcontract: \$61,329/yr 0.6 calendar months
Optimizing ELQs for Treatment and Prevention of Malaria
Sub-contract from OHSU to Kim
Dr. Kim performed testing of compounds on rodent malaria liver stages and for transmission blocking activity. Continuation of R56 grant below.

NIH-NIAID T32 AI070117 (Kim) 07/01/2006 – 05/31/2019
Geographic Medicine and Emerging Infections
This is a training grant to fund 3 graduate students and 3 post-doctoral research fellows, including physicians, in translational research relevant to Global Medicine and Emerging Infectious Diseases. Relinquished PI status in 2017 move to USF.

NIH R01AI095094 (Weiss) 11/15/2011-10/31/2017 (NCE)
Toxoplasma gondii: cyst wall 0.6 Calendar Months Salary only
The goal of this project is to understand the formation and composition of the cyst wall. Dr. Kim advises on genetic strategies.

RFK-IDDRC 2015 Pilot and Feasibility Award (Berman and Kim) 1/01/15-12/31/16
\$15,000
Is increased surface CCR2 on mature monocytes from perinatally HIV infected and perinatally HIV exposed children a biomarker of neurocognitive impairment?

- NIH R01AI087625 (Kim) 3/15/10-2/28/16 (NCE)
Toxoplasma Epigenomics and Gene Expression
Direct costs: \$435,350/yr
This grant will use the epigenomic map of *Toxoplasma gondii* to define functional regions of the genome. This information will be used to identify cis-acting motifs that we hypothesize are recognized by a newly described family of plant-like AP2 DNA binding proteins. Finally we will integrate epigenomic, proteomic, and gene expression data to construct the gene networks important for *T. gondii* gene expression.
- NIH R21AI101801 (Wu, contact; MPI with Kim) 8/12/13-7/31/15
Direct costs: \$125,000/yr 0.6 calendar months
Dissecting the roles of protein O-GlcNAcylation in Toxoplasma gondii 0.6 calendar months
The goal of this project is to understand the function of the novel post-translational modification O-GlcNAcylation and test whether it is an important PTM that regulates gene expression.
- NIH R56AI100569-01 (Riscoe) 07/01/12-11/30/13 (NCE)
Subcontract Direct Costs: \$56,351 0.6 Calendar Months
Optimizing ELQs for Treatment and Prevention of Malaria
Sub-k from OHSU to Kim
Dr. Kim performs testing of compounds on rodent malaria liver stages and in the mosquito to test for malaria prophylaxis activity and transmission blocking activity.
- NIH RC4AI092801 (MPI Kim, contact PI/PD) 9/30/10-9/29/13
A Systems Biology Approach to the Model Apicomplexan Toxoplasma gondii 3.0 calendar mo
Direct Costs: \$1,294,516/yr
contact PI: Kami Kim, co-PIs (subcontract): Michael White, William Sullivan Jr., Manuel Llinas
The goals of this project are to 1) Test the essentiality of *T. gondii* tachyzoite chromatin remodellers, candidate transcription factors, and gene network hubs using a moderate throughput insertional disruption strategy. 2) We will identify groups of co-regulated genes using genomic approaches. 3) We will determine the DNA binding specificity *T. gondii* candidate transcription factors. 4) We will define macromolecular complexes formed by *T. gondii* chromatin remodellers and candidate transcription factors using a proteomics approach.
- NIH R21AI093315 (Weiss) 12/3/11-11/30/12 Salary only
Microsporidia: Genetic Techniques 0.6 calendar months
The goal of this project was to develop techniques for genetic manipulation of microsporidia species. Dr. Kim advises on genetic strategies.
- NIH S10RR027308 (Kim) 2/20/10-2/19/11 instrument only
IVIS Spectrum imager of bioluminescence and fluorescence
This is a shared instrumentation grant for an IVIS machine for 3-dimensional longitudinal intravital imaging of bioluminescence and fluorescence in small animals.
- NIH-NIAID R01 AI 46985 (Kim) 9/01/00-1/31/10
Direct Costs: \$225,000/yr
Serine Proteinases in Apicomplexan Parasites
The major goals were to 1) genetically validate the importance of rhoptry subtilase TgSUB2 2) define the substrate specificity of TgSUB2 3) determine whether alternate microneme subtilases have redundant functions with microneme subtilase TgSUB1.

- NIH-NIAID R01 AI 60496 (Kim) 6/01/04 - 5/31/10
Direct Costs: \$250,000/yr
Differentiation and Signaling in Toxoplasmosis
The major goals were to 1) to define the function of cAMP protein kinase isoforms of *T. gondii* by gene disruption and overexpression, 2) to identify proteins that interact with cAMP signaling pathway, 3) to determine the gene expression patterns associated with cAMP signaling.
- NIH-NIAID R21 AI077476 (Ward, Tufts University) 4/01/08-3/31/10
The goal of this project was to understand the function of *Cryptosporidium parvum* subtilisin-like serine proteases and their role in invasion of host cells. Dr. Kim served as subcontractor for cell biology studies.
- NIH-NIAID RO1 AI39454 (Weiss) 4/01/96-1/31/10 Salary only
Toxoplasmosis in AIDS: Bradyzoite Regulation
The goal of this project was to determine the function of components of the cyst wall that surrounds latent bradyzoite forms of *T. gondii*. Dr. Kim served as collaborator on *T. gondii* genetics.
- NIH-NIAID-DMID BIODEFENSE PROTEOMIC (Angeletti) 6/30/04-6/29/09
RESEARCH PROGRAM HHSN266200400054C
Co-leader Target Validation Core (with Louis M. Weiss)
Identifying Targets for Therapeutic Interventions Using Proteomic Technology
The goal of this contract was to identify and validate therapeutic drug targets for *Toxoplasma gondii* and *Cryptosporidium parvum*, two waterborne Category B bioterrorism agents. Targets were identified using a proteomics approach and validated using cell biology and molecular genetics approaches.
- AECOM CFAR Pilot Project (Kim) 5/01/08-4/30/09
HIV and malaria interactions
The goal of this project was to explore the effect of HIV and malaria co-infection on macrophage and lymphocyte function and interaction of immune cells with endothelial cells.
- U.S Army Medical Research W81XWH-05-2-0025 (Kim) 2/01/05-1/31/09
Evaluation of Purine Salvage as a Chemotherapeutic Target in the *Plasmodium yoelii* Rodent Model
The goal of this project was to test in a rodent malaria model whether inhibitors of purine recycling and salvage pathways are potential chemotherapeutic agents for malaria.
- Marion Bessin Liver Research Center Pilot and Feasibility Grant (Kim) 10/1/04-5/31/06
Development of an In vitro System to Study Hepatic Stages of Malaria
This funded a pilot project to create reporter parasites for screening of hepatic cell lines for ability to support development of exoerythrocytic stages of malaria.
- U.S Army Medical Research (McDonald) 3/18/02-3/17/05 salary only
Novel Leishmania and Malaria Potassium Channels: Candidate Therapeutic Targets.
The goal of this project was to evaluate malaria potassium channels as a potential chemotherapeutic target. The *Leishmania* portion of the project was cut in the review process. Dr. Kim served as parasitology collaborator.
- New Initiatives in Malaria Research (Kim/Schramm) 7/01/01-6/30/03
Burroughs Wellcome Fund

Genetic Dissection of Purine Salvage Pathways in Plasmodium.

The goal of this proposal was to characterize the purine salvage pathway enzyme purine nucleoside phosphorylase (PNP) in the *Plasmodium yoelii* mouse model of malaria. We cloned and characterized PNP in *Plasmodium yoelii* and genetically tested the importance of PNP in *P. yoelii*. Dr. Vern Schramm of Biochemistry served as co-PI.

NIH-NIAID R21 AI52469 (Kim)

9/30/02-9/29/03

Purine Salvage as a Chemotherapeutic Target in Malaria

This goal of this project was to determine if purine salvage is a valid target for antimalarial treatment using genetics approaches designed to disrupt the *Plasmodium falciparum* purine nucleoside phosphorylase gene. Inhibitors designed by the Schramm laboratory at AECOM were tested on cultured parasites.

NIH-NIAID KO2 AI01535 (Kim)

4/01/98-3/31/03

NIH-Independent Scientist Award

Toxoplasma Development & Cell Cycle

The major goals were 1) to analyze regulation of cell cycle gene expression in *T. gondii*, 2) to characterize the expression and function of *T. gondii* cyclin dependent kinases (cdk's), and 3) to study the relationship of cell cycle regulation and *T. gondii* bradyzoite development.

NIH-NIAID R29-AI41058 (Kim)

4/01/97-3/31/02

Cell Cycle Regulation & Toxoplasma Development

The major goal was to understand cell cycle regulation and its role in Toxoplasma development and pathogenesis. This project also developed cell cycle markers for *T. gondii*.

Burroughs Wellcome Fund (Kim)

7/01/98-6/30/01

New Investigator Award in Molecular Parasitology

Signaling Pathways and Toxoplasma gondii Differentiation

The major goals were to 1) to characterize the expression of PKA and TPK3 in *T. gondii*, 2) to determine the effects of altered kinase activity on the expression of bradyzoite (BAG1) or tachyzoite (SAG1) reporter constructs using transient cotransfection assays, 3) to evaluate the phenotype of recombinant parasites lacking PKA or TPK3 or recombinants stably expressing mutant PKA or TPK3

Full-Time Laboratory Personnel (USF)

Li-Min Ting, PhD, Assistant Professor June 2001-present

Iset Vera, PhD, Instructor January 2018-present

Thomas Keller, PhD, Instructor Computational Scientist June 2018-present

Dylan Allen, Lab manager September 2018-present

Andrew Cromwell, PhD student March 2020-present

Forouzandeh Farsaei, MPH student August 2020-present

Former Trainees

Postdoctoral trainees (Einstein):

Inessa Gendlina, MD, PhD; Infectious Diseases research fellow July 2014-June 2018 Current:
Assistant Professor of Medicine, Albert Einstein College of Medicine

Natalie Silmon de Monerri, PhD: September 2011-February 2017; Current: Senior Scientist-Microbial Genomics, Pfizer Vaccine and Research Development

Chibuzo Ememchukwu, MD: Infectious Diseases research fellow July 2015-June 2016; Rockefeller University Clinical Scholars Program; last known: Research Associate Hunter College

Ravikant Ranjan, PhD post-doctoral fellow October 2011-December 2015 Current: Research Scientist India

Sarah Hochman, MD, Infectious Diseases Research Fellow, July 2007-September 2010, Instructor in Medicine (funded by K08 award) Sept 2010-Aug 2015. Current: Assistant Professor, Division of Infectious Diseases & Director of Infectious Diseases Clinical Services Tisch Hospital, New York Langone Medical Center, New York University School of Medicine.

Zoi Tampaki, PhD post-doctoral fellow November 2010-October 2014 deceased.

Catherine de Beaumont, PharmD post-doctoral fellow December 2010-October 2013; current medical microbiology diagnostic scientist France

Sheila Nardelli, PhD post-doctoral fellow September 2010-September 2013; 2013-2014 Senior Post-doctoral Fellow, Carlos Chagas Institute (ICC-Fiocruz); Jovem Talento Ciencia sem fronteiras (2-year fellowship for recruitment of “young talent” back to Brazil); Current: Junior Group leader Carlos Chagas Institute (ICC-Fiocruz), equivalent to Assistant Professor.

Theresa Madaline, MD Infectious Diseases Research Fellow, July 2012-July 2013; Assistant Professor of Medicine (Division of Infectious Diseases) Albert Einstein College of Medicine; Hospital Epidemiologist and Attending Physician Infectious Diseases Montefiore Medical Center, Current: Chief Quality Officer, Coney Island Hospital.

Julie Varughese, MD infectious diseases research fellow July 2011-September 2012; 2013-2014, private practice Infectious Diseases Norwalk Hospital; Current: Medical Director and Technical Officer, AmeriCares.

Iset Vera, PhD; PhD thesis work, March 2005-April 2010; post-doctoral fellow May 2010-June 2011, post-doctoral fellow, Mota laboratory, Portugal. awarded EMBO postdoctoral fellowship and NIH F32 fellowships, now instructor USF

Kamal El Bissati, PhD, Instructor, January 2008-April 2010 current: Assistant Professor, University of Chicago, laboratory of Rima McLeod, MD

Philippa Harris, PhD, Research Associate, July 2006-July 2009 Current: Editor Lancet HIV

Raj Upadhyay, PhD, Instructor, October 2004-June 2009; Current: Senior Scientist, Laboratory of Jennifer Lodge, PhD Washington University.

Mathieu Gissot, PhD, Research Associate, March 2005-October 2008 Current: CNRS Associate Scientist CRIL (equivalent to Asst Professor); Institut Pasteur, Lille France

Vanessa Lagal, PhD, Research Associate, August 2005-September 2008; postdoctoral fellow, laboratory of Isabelle Tardieux, Institute Cochin, Paris, France. Current: Research scientist Institut Pasteur, Paris.

Karena Waller, PhD, Research Associate (joint with McDonald) July 2002-December 2005 Current: tenured Senior Lecturer University of Melbourne, Australia

Xiaohong Gao, M.D., Research Associate 2000-2003; Current: Research Associate, Dr. Peter Preiser, Nanyang Technological University, Singapore

Vandana Thathy, PhD., Postdoctoral Fellow 2000-2003; junior group leader Wellcome Trust-KEMRI, Kilifi, Kenya; Current: University of Oxford

Farzana Khan, PhD; Research Associate 1999-2002 Last known: family leave

Chang-le Qin, PhD; postdoctoral fellow 1995-1997; Last known: Research Scientist, Merck Pharmaceuticals

Predoctoral Trainees:

At USF:

Emily Buckley VanBuren, Masters in Bioinformatics MCOM USF, March-Dec 2019; Current PhD candidate, University of Texas, Arlington

Jinyong (Andy) Pang, Masters in Mathematics (Statistics USF), August 2018-December 2018; Current: PhD candidate, Biostatistics Program, College of Public Health, USF

David (Alex) Dean, Masters student in Molecular Medicine Oct 2018-May 2020; Public health assistant; Current applying to medical school.

At Einstein:

Anne Kessler, PhD (joint with Wenzhu Mowrey) PhD in Clinical Investigation May 2013-September 2017 Current: Assistant Director, Center for the Study of Complex Malaria in India (NIH-funded ICEMR; PI Jane Carlton, New York University)

Aakash Mahant, visiting scientist (Masters Candidate) September 2016-June 2017 Current: PhD student Albert Einstein College of Medicine

Netha Ulahannan, PhD (joint with John Greally) PhD candidate April 2012-May 2016, Current: Post-doctoral fellow Weill Cornell Medical Center/New York Genome Center

Janhabi Bose, visiting scientist October 2014-August 2015, Current: PhD candidate, University of Maryland

Matthew Croken, PhD; PhD candidate June 2008-May 2014, Current: Bioinformatics and Computational Genomics Scientist, Sema4.

Iset Vera, PhD, PhD candidate, March 2005-June 2010 Post-doctoral fellow with Maria Mota, PhD awarded EMBO fellowship and NIH F32 Current: Instructor USF

Teraya Donaldson, PhD; PhD candidate July 2004-April 2010 Current: graduate program education manager, Center for Clinical and Translational Research, Virginia Commonwealth University, Richmond, VA

Agnes Mwakingwe, MD, PhD; MSTP trainee, thesis research July 2005-February 2009; MSTP graduate 2010; Resident in Internal Medicine Johns Hopkins Bayview, Baltimore, MD 2010-2013; Infectious Diseases Research Fellow NIH July 2013-2017 (with Patrick Duffy, MD) Staff Scientist NIH; Current: GSK vaccines

Dennis Madrid, MD, PhD; MSTP trainee; thesis research October 2002-November 2008 Current: OB-Gyn private practice

Roman Thibeaux, PhD; Visiting scientist (Masters student, Denis Diderot University, Paris) March 2007-August 2007 Last known: PhD 2014 Nancy Guillen, Institut Pasteur.

Art Jongco, MD-PhD; PhD thesis work September 2002-October 2006; MSTP graduate Albert Einstein College of Medicine June 2008, (Medicine Resident Long Island Jewish Hospital) Current: Allergy and Immunology Attending and Assistant Professor, Long Island Jewish Hospital.

Zoi Tampaki, PhD; visiting scientist (PhD student in laboratory of Thanasis Loukeris, PhD, University of Crete) October 2005-December 2005; March 2006-September 2006 Current: deceased

Adele Chretien, visiting scientist (Masters student, University of Paris) March 2006-September 2006

Emily Binder (Braunstein), PhD; PhD thesis work 2000-2005; PhD conferred Sept 2005; Current: Scientist FDA

Michael Eaton, MD, PhD; PhD thesis work 1999-2003; MSTP graduate June 2005 Albert Einstein College of Medicine; Current: Radiation Oncology Physician, private practice, Indiana

Steve Miller, MD, PhD; PhD thesis work 1997-2001, MSTP graduate June 2003 Albert Einstein College of Medicine, Current: Director, UCSF Clinical Microbiology Laboratory, San Francisco, California; Health Sciences Associate Professor of Clinical Laboratory Medicine; Director Microbiology Laboratory, University of California, San Francisco; Co-Director UCSF Viral Diagnostics and Discovery Center.

Greg Kicska, MD, PhD (based in Schramm laboratory); PhD thesis work 1998-fall 2002, MSTP graduate June 2004 Albert Einstein College of Medicine.(Resident in Radiology, University of Pennsylvania) Current: Associate Professor of Radiology (Thoracic Imaging), University of Washington, Seattle

Jianzhong Tang, M.S. from CUNY 1998-2000 Current: research technician Wadsworth Laboratories, Albany, New York

Laura Kirkman, MD; AECOM medical student, Howard Hughes Medical Institute Medical Student Research Fellow 1998-99; medical student summer research project, summer 1997 (medical resident, Yale University School of Medicine) Current: Associate Professor, Department of Medicine (Infectious Diseases), Weill-Cornell Medical College.

Other Trainees (short term):

USF:

Undergraduates:

Jiahao (Leo) Li, summer 2019 and spring 2020, USF BS in statistics 2019; now master's student in data science Rutgers University.

John Hakim, summer 2019, USF Class of 2021. Applying to medical school.

Einstein:

Medical residents:

Francisco Marty, MD, medical resident Jacobi/Weiler, research elective fall 1998 (Chief Resident in Medicine Jacobi/Weiler 99-00; Infectious Diseases fellow Harvard MGH/Brigham program) Current: Attending in Infectious Diseases, Brigham and Women's Hospital; Associate Professor, Harvard Medical School.

Trini Mathew, MD, medical resident Jacobi/Weiler, research elective summer 2000 (Chief Resident in Medicine Jacobi/Weiler 2002-03; Infectious Diseases clinical research fellow at Harvard Beth Israel/Deaconess Hospitals) Last known: Attending physician and Assistant Professor, Infectious Diseases, University of Connecticut Hospital, Hartford, CT.

Henry Redel, MD, medical resident, Montefiore Medical Center, research elective; March-April, August 2009 (Infectious Diseases fellow New York University Langone School of Medicine 2010-12); Current: Infectious Diseases private practice, New Jersey Clinical Assistant Professor of Medicine at Rutgers – Robert Wood Johnson Medical School

Medical students:

Marilyn Sutton, MD AECOM medical student independent research project, June-Oct 1996; Oct-Dec. 2000; Last known: family medicine physician private practice, Scarsdale, NY

Jimee Hwang, MD; AECOM 4th year medical student research elective Feb-May 2002 (Resident in Internal Medicine, University of California, San Francisco); CDC EIS officer, malaria branch. Current: Medical Epidemiologist Malaria Branch CDC (based at USCF)

Nathalie Poumellec, MD University of Paris medical student research, summer 2004. Current: physician; Paris, France

TaiJuana Jackson, MD AECOM 4th year medical student research elective October 2011-May 2012; Last known: Resident in Internal Medicine, University of California, Davis, CA

Diane Algava AECOM 1st year medical student summer research project June-August 2016.

Takiyah Mitchell AECOM 1st year medical student summer research project June-August 2016.

Katya Dobrowski AECOM 1st year medical student summer research project June-August 2017

Tina Vridhachalam AECOM 1st year medical student summer research project June-August 2017

Undergraduates:

Helen Krupitsky, MD; undergraduate Stern College, summer 1997 & 1998 (AECOM medical student class of 2003; Resident in Medicine, Montefiore Medical Center; Oncology fellow, Stanford University School of Medicine; Current: Private Practice Oncology)

Dean Philip, undergraduate Long Island University, Summer Undergraduate Research Program 1997

David Ishakhov, undergraduate Bard College, summer 1999 (last known dental student SUNY-Stonybrook).

Song Wu, undergraduate Cornell University, summer 1997

Timur Graham, undergraduate City College, CUNY, Summer Undergraduate Research Program 1999

Akiva Novetsky, undergraduate Yeshiva College, Summer Undergraduate Research Program 2000; AECOM medical student, class of 2007; Current: Assistant Professor, Department of Obstetrics and Gynecology, Albert Einstein College of Medicine & Attending physician, Montefiore Medical Center.

Caryn Gamss, undergraduate Stern College, Yeshiva University, Summer Undergraduate Research Program 2002; medical student Albert Einstein College of Medicine class of 2008; last known radiology resident Montefiore Medical Center.

Iset Vera, undergraduate UCLA, ASM Minority Undergraduate Research Fellow, summer 2003. PhD AECOM; post-doctoral fellow Mota laboratory Portugal, EMBO fellowship; Current, Instructor, USF.

Bryan Kim, undergraduate Case Western Reserve, Undergraduate Research, summer 2003. Last known: student Michigan State College of Osteopathy

Suzanne Snyder, undergraduate Stern College Summer Undergraduate Research Program 2005 Last known: medical student AECOM class of 2010

Christina Belter, undergraduate Gaucher College, Summer Undergraduate Research Program 2007 Last known: applying to MPH programs

Batya Herzberg, undergraduate Stern College, Class of 2010; Summer Undergraduate Research Program 2008 Last known: medical student AECOM class of 2014

Chelsea Cockburn, undergraduate James Madison University, Summer Undergraduate Research Program 2011; Last known: MD-PhD student Virginia Tech

Katelyn Scharf, undergraduate University of Michigan, Class of 2013; Summer Undergraduate Research Program 2012; Last known: medical student, Jefferson Medical School

Pedro Pagan, undergraduate Hunter College, bioinformatics summer intern, summer 2012

Levy Vargas, undergraduate Hunter College, bioinformatics summer intern, summer 2012

David Carratu, undergraduate Columbia School of Engineering, Class of 2020; summer 2017

McKenze Moss, undergraduate Xavier College, Class of 2019; summer 2017; current PhD student in Chemistry Notre Dame

High school Students:

Steven Okaine, high school senior Evander Childs High School, March-May 2001; last known: undergraduate Syracuse University.

Katherine Eldridge, high school student New Canaan High School, Intel Science Competition July-Nov 2002; Last known: undergraduate Harvard College Class of 2007.

Anna Yakovleva, high school student Bronx High School of Science Intel Science Competition Feb 2004-Aug 2005; George Washington University class of 2009; Biostatistician George Washington University.

Chris Schipper, high school student New Canaan High School. Intel Science Competition, summer 2004. Last known: Washington University, Class of 2008.

John Zheng, high school student Bronx High School of Science June 2006-September 2006; Middlebury College Class of 2011; PhD student in analytic chemistry, University of Michigan; Current: Research Scientist Biotech

Willis Ko, high school student Bronx High School of Science, Intel Science Competition June 2005-September 2006

Josh Ichise, high school student Scarsdale High School Class of 2010, Summer 2009; May-June 2010. Last known: undergraduate Ryukyu University Medical School, Japan

- Gary Chase Krivo, high school student New Canaan High School Class of 2010, Summer 2009; Last known: RPI Class of 2014
- Nick Grandin, high school student New Canaan High School Class of 2012, Summer 2010, 2011; Last known: University of Miami Class of 2015
- Holly Barra, high school student New Canaan High School Class of 2012, Summer 2011; Last known: University of Maryland Class of 2015
- Sam Murray, high school student New Canaan High School Class of 2013, Summer 2012; current: University of Pennsylvania Class of 2017
- Gita Abhiraman, high school student New Canaan High School Class of 2014, Summer 2012 & Summer 2013 Intel Science Talent Search 2013—Intel STS Semifinalist 2014; current: undergraduate Harvard College Class of 2018
- Jeffrey An, high school student Fort Lee High School Class of 2013, Summer 2012, Intel Science Talent Search, 2012
- Lakshmi Singh, high school student Bronx High School of Science Class of 2013; Summer 2012, Intel competition, 2012; last known: undergraduate Carnegie Mellon University Class of 2017
- Elias Litchman, high school student New Canaan High School Class of 2015; Summer 2014; current: Cornell University Class of 2019
- Olivia Venancio, high school student Trinity School Class of 2015; Summer 2014; current: University of Pennsylvania Class of 2019
- Siyu Wu, high school student Bronx School of Science Class of 2016; November 2014–November 2015; Intel competition 2015.
- Bhaskar Abhiraman, high school student New Canaan High School Class of 2017, Summer 2015 University of Pennsylvania Class of 2021
- Kenan Danon, high school student Trinity School Class of 2016; Summer 2015; Carnegie Mellon University Class of 2020
- Kelly Yu, high school student Herricks High School Class of 2017; Summer 2015
- Faustino Cortina, high school student New Canaan High School Class of 2017, Summer 2016, Regeneron competition 2016; Dartmouth College Class of 2021

Peer-reviewed publications:

1. **Kim K**, Blechman WJ, Riddle VG, Pardee AB. Basis of observed resistance of L1210 leukemia in mice: methotrexate, 6-thioguanine, 6-methylmercaptapurine riboside, 6-mercaptopurine, 5-fluorouracil, and 1-beta-D-arabinofuranosylcytosine administered in different combinations. *Cancer Res.* 1981 Nov;41(11 Pt 1):4529-34. PMID: 7198006
2. Rosenthal PJ, **Kim K**, McKerrow JH, Leech JH. Identification of three stage-specific proteinases of *Plasmodium falciparum*. *J Exp Med.* 1987 Sep 1;166(3):816-21. PMID: 3305763
3. Nelson RG, **Kim K**, Gooze L, Petersen C, Gut J. Identification and isolation of *Cryptosporidium parvum* genes encoding microtubule and microfilament proteins. *J Protozool.* 1991 Nov-Dec;38(6):52S-55S. PMID: 1818196

4. Goozé L, **Kim K**, Petersen C, Gut J, Nelson RG. Amplification of a *Cryptosporidium parvum* gene fragment encoding thymidylate synthase. J Protozool. 1991 Nov-Dec;38(6):56S-58S. PMID: 1818199
5. **Kim K**, Goozé L, Petersen C, Gut J, Nelson RG. Isolation, sequence and molecular karyotype analysis of the actin gene of *Cryptosporidium parvum*. Mol Biochem Parasitol. 1992 Jan;50(1):105-13. PMID: 1542305
6. Xiong C, Grieve RB, **Kim K**, Boothroyd JC. Expression of *Toxoplasma gondii* P30 as fusions with glutathione S-transferase in animal cells by Sindbis recombinant virus. Mol Biochem Parasitol. 1993 Sep;61(1):143-8. PMID: 8259126
7. **Kim K**, Soldati D, Boothroyd JC. Gene replacement in *Toxoplasma gondii* with chloramphenicol acetyltransferase as selectable marker. Science. 1993 Nov 5;262(5135):911-4. PMID: 8235614
8. **Kim K**, Bülow R, Kampmeier J, Boothroyd JC. Conformationally appropriate expression of the *Toxoplasma* antigen SAG1 (p30) in CHO cells. Infect Immun. 1994 Jan;62(1):203-9. PMID: 8262628
9. **Kim K**, Boothroyd JC. *Toxoplasma gondii*: stable complementation of sag1 (p30) mutants using SAG1 transfection and fluorescence-activated cell sorting. Exp Parasitol. 1995 Feb;80(1):46-53. PMID: 7821410
10. Black M, Seeber F, Soldati D, **Kim K**, Boothroyd JC. Restriction enzyme-mediated integration elevates transformation frequency and enables co-transfection of *Toxoplasma gondii*. Mol Biochem Parasitol. 1995 Oct;74(1):55-63. PMID: 8719245
11. Soldati D, **Kim K**, Kampmeier J, Dubremetz JF, Boothroyd JC. Complementation of a *Toxoplasma gondii* ROP1 knock-out mutant using phleomycin selection. Mol Biochem Parasitol. 1995 Oct;74(1):87-97. PMID: 8719248
12. Vásquez JR, Goozé L, **Kim K**, Gut J, Petersen C, Nelson RG. Potential antifolate resistance determinants and genotypic variation in the bifunctional dihydrofolate reductase-thymidylate synthase gene from human and bovine isolates of *Cryptosporidium parvum*. Mol Biochem Parasitol. 1996 Aug;79(2):153-65. PMID: 8855552
13. Qin CL, Tang J, **Kim K**. Cloning and in vitro expression of TPK3, a *Toxoplasma gondii* homologue of shaggy/glycogen synthase kinase-3 kinases. Mol Biochem Parasitol. 1998 Jun 1;93(2):273-83. PMID: 9662711
14. Zhang YW, **Kim K**, Ma YF, Wittner M, Tanowitz HB, Weiss LM. Disruption of the *Toxoplasma gondii* bradyzoite-specific gene BAG1 decreases in vivo cyst formation. Mol Microbiol. 1999 Jan;31(2):691-701. PMID: 10027984
15. Kirkman LA, Weiss LM, **Kim K**. Cyclic nucleotide signaling in *Toxoplasma gondii* bradyzoite differentiation. Infect Immun. 2001 Jan;69(1):148-53. PMID: 11119500
16. **Kim K**, Eaton MS, Schubert W, Wu S, Tang J. Optimized expression of green fluorescent protein in *Toxoplasma gondii* using thermostable green fluorescent protein mutants. Mol Biochem Parasitol. 2001 Apr 6;113(2):309-13. PMID: 11295185
17. Sonda S, Ting LM, Novak S, **Kim K**, Maher JJ, Farese RV Jr, Ernst JD. Cholesterol esterification by host and parasite is essential for optimal proliferation of *Toxoplasma gondii*. J Biol Chem. 2001 Sep 14;276(37):34434-40. Epub 2001 Jul 16. PMID: 11457847

18. Fischer BS, Qin D, **Kim K**, McDonald TV. Capsaicin inhibits Jurkat T-cell activation by blocking calcium entry current I(CRAC). *J Pharmacol Exp Ther*. 2001 Oct;299(1):238-46. PMID: 11561085
19. Miller SA, Binder EM, Blackman MJ, Carruthers VB, **Kim K**. A conserved subtilisin-like protein TgSUB1 in microneme organelles of *Toxoplasma gondii*. *J Biol Chem*. 2001 Nov 30;276(48):45341-8. Epub 2001 Sep 19. PMID: 11564738
20. Matthiesen SH, Shenoy SM, **Kim K**, Singer RH, Satir BH. A parafusin-related *Toxoplasma* protein in Ca²⁺-regulated secretory organelles. *Eur J Cell Biol*. 2001 Dec;80(12):775-83. PMID: 11831391
21. Kicska GA, Tyler PC, Evans GB, Furneaux RH, **Kim K**, Schramm VL. Transition state analogue inhibitors of purine nucleoside phosphorylase from *Plasmodium falciparum*. *J Biol Chem*. 2002 Feb 1;277(5):3219-25. Epub 2001 Nov 13. PMID: 11707439 "Classic" JBC paper. Republished in the June 25 2010 issue of JBC
22. Kicska GA, Tyler PC, Evans GB, Furneaux RH, Schramm VL, **Kim K**. Purine-less death in *Plasmodium falciparum* induced by immucillin-H, a transition state analogue of purine nucleoside phosphorylase. *J Biol Chem*. 2002 Feb 1;277(5):3226-31. Epub 2001 Nov 12. PMID: 11706018 "Classic" JBC paper. Republished in the June 25 2010 issue of JBC
23. Khan F, Tang J, Qin CL, **Kim K**. Cyclin-dependent kinase TPK2 is a critical cell cycle regulator in *Toxoplasma gondii*. *Mol Microbiol*. 2002 Jul;45(2):321-32. PMID: 12123447
24. Miller SA, Thathy V, Ajioka JW, Blackman MJ, **Kim K**. TgSUB2 is a *Toxoplasma gondii* rhoptry organelle processing proteinase. *Mol Microbiol*. 2003 Aug;49(4):883-94. PMID: 12890015
25. Matthiesen SH, Shenoy SM, Kim K, Singer RH, Satir BH. Role of the parafusin orthologue, PRP1, in microneme exocytosis and cell invasion in *Toxoplasma gondii*. *Cell Microbiol*. 2003 Sep;5(9):613-24. PMID: 12925131
26. O'Connor RM, **Kim K**, Khan F, Ward HD. Expression of Cpgp40/15 in *Toxoplasma gondii*: a surrogate system for the study of *Cryptosporidium* glycoprotein antigens. *Infect Immun*. 2003 Oct;71(10):6027-34. PMID: 14500524
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