

## **Victor Nizet, M.D.**

Professor & Vice Chair for Basic Research, Department of Pediatrics  
Chief, Division of Host-Microbe Systems & Therapeutics  
University of California, San Diego School of Medicine  
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### PERSONAL

Born Dec 24, 1962 in Augusta, Georgia, USA  
Married (Christine), Son (Oliver)

### MAJOR AREAS OF ACADEMIC INTEREST

The interest of my laboratory lies in understanding fundamental mechanisms of bacterial pathogenesis and the innate immune system, with a special focus on human streptococcal and staphylococcal infections. Using a molecular genetic approach, the laboratory seeks to discover and characterize bacterial virulence determinants involved in cytotoxicity, adherence, invasion, inflammation, molecular mimicry and resistance to immunologic clearance. In companion studies, we investigate the contribution of host factors such as antimicrobial peptides, leukocyte surface receptors, signal transduction pathways, and transcription factors in defense against invasive bacterial infection. Ultimately, we believe the basic information gained through this platform will lead to novel treatment strategies for infectious diseases, involving targeted neutralization of bacterial virulence phenotypes and pharmacologic augmentation of host innate immune function.

### ACADEMIC APPOINTMENTS

2015 – present	Vice Chair for Basic Research, Department of Pediatrics, UCSD School of Medicine
2007 – present	Professor of Pediatrics, UCSD School of Medicine
2007 – present	Professor of Pharmacy, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences
2006 – present	Chief, Division of Pediatric Pharmacology & Drug Discovery, UCSD School of Medicine
2006 – 2007	Associate Professor, UCSD Skaggs School of Pharmacy & Pharmaceutical Sciences
2003 – 2007	Associate Professor of Pediatrics, UCSD School of Medicine
1997 – 2003	Assistant Professor of Pediatrics, Division of Infectious Diseases, UCSD School of Medicine
1996 – 1997	Acting Instructor, Division of Pediatric Infectious Disease, University of Washington, Seattle, WA

### CLINICAL TRAINING

1993 – 1996	Pediatric Infectious Diseases Fellowship, Children's Hospital, Univ. of Washington, Seattle, WA
1992 – 1993	Chief Resident in Pediatrics, Children's Hospital, Harvard University, Boston, MA
1989 – 1992	Resident in Pediatrics, Children's Hospital, Harvard University, Boston, MA

### EDUCATION

1984 – 1989	Stanford University School of Medicine, Doctor of Medicine
1980 – 1984	Reed College, Portland, Oregon, Bachelor of Arts; Major: Biology

### ACADEMIC HONORS

2017	UCSD Chancellor's Associates Award for Excellence in Research in Science and Engineering
2013	UCSD Chancellor's Award for Excellence in Postdoctoral Scholar Mentoring
2013	Rady Children's Hospital San Diego Award for Excellence in Research
2012	Elected to Fellowship in the American Academy of Microbiology
2010	Elected to Membership in the Association of American Physicians
2008	E. Mead Johnson Award for Research in Pediatrics, Society for Pediatric Research
2008	Stephen Silberstein Senior Fellow of the American Asthma Foundation

2006	Elected to Membership in the American Society for Clinical Investigation
2006	Elected to the American Pediatric Society
2006	Elected to Faculty of 1000 - Biology
2004	Career Investigator Award, American Lung Association
2004	Established Investigator Award, American Heart Association
2002	Named the 39 <sup>th</sup> Mallinckrodt Scholar by the Edward Mallinckrodt, Jr. Foundation
2002	Pediatric Infectious Diseases Society Young Investigator Award
2002	Elected to the Society for Pediatric Research
2001	UCSD Department of Pediatrics Commitment to Resident Education Award
2000	UCSD Department of Pediatrics Outstanding Faculty Teacher of the Year
1993	Sidney Farber Outstanding Houseofficer Award, Children's Hospital, Boston
1984	Class of 1922 Award, Reed College, "Most Outstanding Senior Thesis"
1984	Phi Beta Kappa, Reed College

#### UCSD AFFILIATIONS / DIRECTORSHIPS

2015 – present	Vice Chair for Basic Research, Department of Pediatrics
2015 – present	Chief, Division of Host-Microbe Systems & Therapeutics, Department of Pediatrics
2014 – present	Co-Director, Center for Vaccine Innovation, UCSD Institute for Engineering and Medicine
2013 – present	Director, UCSD Center for Immunity, Infection & Inflammation
2011 – present	Co-Director, UCSD NICHD-Funded Research Program in Developmental Pharmacology
2009 – present	Member, UCSD Clinical & Translational Research Institute
2008 – present	Member, UCSD Institute of Engineering in Medicine
2007 – present	Co-Director, SSPPS PharmD-PhD Program
2006 – 2015	Chief, Division of Pharmacology & Drug Discovery, Department of Pediatrics UCSD SOM
2006 – 2013	Medical Director, UCSD Clinical Pharmacology & Assay Laboratory
2006 – 2011	Medical Director, UCSD Pediatric Pharmacology Research Unit
2004 – 2006	Director, UCSD Pediatric Infectious Diseases Training Program
2004 – present	Track Leader, Microbiology/Immunology, UCSD Biomedical Sciences Program
2003 – present	Member, Rebecca and John Moores UCSD Cancer Center
2002 – present	Member, Center for Marine Biotechnology & Biomedicine
2002 – present	Faculty Member, Biomedical Sciences Graduate Program
2002 – 2008	Faculty Member, UCSD/Burnham Molecular Pathology Graduate Program (merged with BMS)
2002 – present	Member, UCSD Glycobiology Research and Training Center

#### SELECTED UCSD UNIVERSITY SERVICE

2017 –	Co-Chair, Search Committee for Tenure Track or Tenured Professor for Engineering and Computer Science in Health Sciences, Microbiome Focus
2017 –	Chair, Search Committee for Chief of Pediatric Respiratory Medicine
2017 –	Chair, Search Committee for Chief of Pediatric Infectious Diseases
2016 –	Member of Executive Committee, UCSD IRACDA Program
2016 – 2017	Member, Search Committee for Dean of Graduate Studies
2015 –	Executive Committee, UCSD NIH-Funded Chemistry-Biology Interface T-32 Training Program
2014 – 2015	Chair, Search Committee for Senior Faculty in Genomics, Epigenomics & Microbiome Science
2013 – 2016	Member, UCSD Graduate Council
2012 – present	Member, UCSD Center for Drug Discovery Innovation Executive Committee
2012 – present	Member, UCSD National Center for Leadership in Medicine (NCLAM) Leadership Council
2011 – present	Member, Translational Research Alliance Internal Advisory Board, UCSD CTRI
2011 – 2012	Member, Academic Senate Task Force on the Faculty Reward System
2011 – 2012	Chair, Neonatology Division Chief Search Committee, UCSD Department of Pediatrics
2011 – 2013	Member, UCSD Academic Senate Committee on Research
2011 – 2013	Chair, Academic Senate Health Sciences Subcommittee of the UCSD Committee on Research
2010 – present	UCSD Medical Scientist Training Program Steering Committee
2009 – 2010	Member, Search Committee for Assistant Vice Chancellor for Contracts & Grants Administration
2009 – present	Member Skaggs School of Pharmacy & Pharmaceutical Sciences Research Committee
2009	Faculty Committee, UCSD SOM Institutional Self Study Evaluation Task Force
2007 – present	Member, UCSD Health Sciences Research Council
2007 – 2010	Chair, UCSD Medical Scientist Training Program Admissions Committee
2007 – 2009	Member-at-Large, UCSD School of Medicine Committee on Educational Policy

2007 – 2009	Chair, Pediatric Respiratory Medicine Division Chief Search Committee
2007 – 2009	Chair, Pediatric Hematology/Oncology Research Director Search Committee
2006 – 2007	Chair, UCSD/RCHSD Pediatrics Intramural Clinical Research Funding Program
2005 – 2007	Member, UCSD/RCHSD Research Task Force
2005 – present	Steering Committee, Training Program in Marine Biotechnology SIO/UCSD
2006 – 2008	Chair, Pediatric Nephrology Division Chief Search Committee
2004 – present	Member, UCSD Biomedical Sciences Standings, Promotions and Advisory Committee
2004 – present	Member, UCSD Biomedical Sciences Program Planning & Executive Committee
2004 – 2006	Vice-Chair, Medical Scientist Training Program Selection Committee
2003 – 2005	Vice-Chair, UCSD School of Medicine Student Affairs Committee

### SELECTED TEACHING LEADERSHIP ROLES

2011 – 2012	Course Co-Director, SSPPS 249, "Principles of Pharmacology & Physiology"
2008 – present	Module Co-Director, BIOM 200, "Microbial Threats and Immune Defense"
2007 – present	Course Director, BIOM 253, "Pathogens and Host Defense"

### PROFESSIONAL SOCIETIES

2013 – present	American Association for the Advancement of Science
2012 – present	American Academy of Microbiology
2010 – present	Association of American Physicians
2006 – present	American Society for Clinical Investigation
2006 – present	American Pediatric Society
2002 – present	Society for Pediatric Research
1993 – present	American Society for Microbiology
1993 – present	Pediatric Infectious Disease Society

### BIOTECHNOLOGY VENTURES

2016 –	Founding Scientist, Staurus, Inc.
2008 – 2014	Founding Scientist, AuricX Pharmaceuticals
2006 – 2011	Founding Scientist, Hypoxygen, Inc.

### NATIONAL SERVICE & LEADERSHIP ROLES

2015 – present	Permanent Member, Host Interactions with Bacterial Pathogens (HIBP) Study Section, Infectious Disease and Microbiology Integrated Review Group, NIH/NIAID
2014	National Judge, Collaborate   Innovate Partners in Patient Health Challenge, Sanofi Pasteur USA
2010	Chair, Outside Evaluation Committee, Great Lakes Regional Center for Excellence (GLRCE) in Biodefense and Emerging Infectious Diseases Research
2009 – 2012	Member, Scientific Working Group, NIAID Genomic Sequencing Centers for Infectious Disease
2009 – 2011	Member, E. Mead Johnson Award Selection Committee, Society for Pediatric Research
2006 – 2008	Chair, Infectious Diseases Task Force, Best Pharmaceuticals for Children's Act
2005 – 2007	Chair, Immunology & Microbiology Peer Review Group, American Heart Association

### EDITORIAL ROLES

2017 – present	Editorial Board, <i>NPJ Infectious Diseases</i>
2014 – present	Advisory Board, <i>eBiomedicine</i>
2010 – 2016	Editorial Board, <i>Pediatric Research</i>
2009 – present	Editorial Board, <i>Journal of Innate Immunity</i>
2008 – present	Editor, Remington and Klein's <i>Infectious Diseases of the Fetus and the Newborn Infant, 7<sup>th</sup>-8<sup>th</sup> Editions</i>
2007 – present	Associate Editor, <i>Journal of Molecular Medicine</i>

### ADVISORY BOARDS, OUTSIDE ACADEMIC

2017 – present	Member, Academic Committee of the Collaborative Innovation Center for Diagnosis and Treatment of Infectious Diseases (CCID), Hangzhou, China,
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2017 – present	Expert group of the Antimicrobial Memory Recovery Initiative (AMRI) – A programme of the Global Antibiotic R&D Partnership (GARD)
2014 – present	International Advisory Board, The Florey Institute for Host-Pathogen Interactions, University of Sheffield, Sheffield, UK
2008 – present	Medical Advisory Board, A.P. Giannini Foundation Medical Research Fellowship Program
2008	Outside Reviewer, University of Michigan Child Health Research Center (K12 Program)
2007 – 2016	Main Scientific Advisory Board, Sanford-Burnham-Prebys Medical Discovery Institute
2007 – present	Educational Affiliate, Graduate School of Biomedical Sciences, Sanford-Burnham-Prebys Medical Discovery Institute

#### ADVISORY BOARDS, BIOTECHNOLOGY

2017–	Scientific Advisor, Cellular Approaches, San Diego, CA
2017	Scientific Advisor, Millenium Health, San Diego, CA
2016 –	Scientific Advisor, SutroVax, Inc., South San Francisco, CA
2016 –	Scientific Advisor, DrugArray, Inc., San Diego, CA
2016 –	Scientific Advisor, Iogen, Inc., San Diego, CA
2016 –	Scientific Advisor, BlueNovo Biosystems, LLC, Escondido, CA
2015 –	Scientific Advisor, Centauri Therapeutics, Sandwich, UK
2014 –	Scientific Advisor, Cidara Therapeutics, San Diego, CA
2013 –	Scientific Advisor, InhibRx, San Diego, CA
2012 – 2014	Scientific Advisor, Sirenas Marine Discovery, San Diego, CA
2012 – 2015	Scientific Advisor, Loxbridge Research, London, UK
2008 – 2009	Scientific Consultant, Helixis, Inc., Carlsbad, CA
2007 – 2010	Scientific Consultant, Kyowa Hakko Kirin, CA, Inc., La Jolla, CA
2006 – 2013	Scientific Advisory Board, Trius Therapeutics, San Diego, CA

#### PUBLICATIONS IN SCIENTIFIC OR MEDICAL JOURNALS

- (1) Palefsky J, Winkler B, Rabanus J, Clark C, Chan S, **Nizet V**, Schoolnik GK. Characterization of *in vivo* expression of the human papillomavirus type 16 e4 protein in cervical biopsy tissues. J Clin Invest 1991; 87:2132-41.
- (2) **Nizet V**, Priebe CJ. Case report: An 8-day-old male infant with poor feeding, lethargy, and an elevated anion gap metabolic acidosis. Curr Opin Pediatr 1993; 5:499-502.
- (3) Priebe CJ, **Nizet V**. Case report: A 2-year-old girl with hematemesis, melena and splenomegaly. Curr Opin Pediatr 1993; 5:590-4.
- (4) Lovejoy FH, **Nizet V**, Priebe CJ. Common etiologies and new approaches to management of poisoning in pediatric practice. Curr Opin Pediatr 1993; 5:524-30.
- (5) Priebe CJ, **Nizet V**. Case report: A 7-month-old male with growth failure, hypercalcemia and unusual facies. Curr Opin Pediatr 1993; 5:728-32.
- (6) Priebe CJ, **Nizet V**. Case report: A 5-year-old girl with varicella and acute onset of fever, stridor, and respiratory distress. Curr Opin Pediatr 1993; 6:36-41.
- (7) **Nizet V**, Vinci RJ, Lovejoy FH. Fever in children. Pediatr Rev 1994; 15:127-35.
- (8) **Nizet V**, Priebe CJ. Case report: A newborn girl with watery diarrhea, weight loss, and severe metabolic acidosis. Curr Opin Pediatr 1994; 6:163-7.
- (9) Brogan TV, **Nizet V**, Waldhausen JHT, Rubens CE, Clarke WR. Group A streptococcal necrotizing fasciitis complicating primary varicella: a series of fourteen patients. Ped Infect Dis J 1995; 14:588-94.
- (10) **Nizet V**, Brogan TV. Enterococcal necrotizing fasciitis complicating elective hernia repair in an infant. Infect Dis Clin Pract 1996; 5:76-8.
- (11) Mills WJ, Mosca VS, **Nizet V**. Orthopaedic manifestations of invasive group A streptococcal infections complicating primary varicella. J Ped Ortho 1996; 16:522-8.
- (12) **Nizet V**, Colina KF, Almquist JR, Rubens CE, Smith AL. A virulent nonencapsulated *Haemophilus influenzae*. J Infect Dis 1996; 173:180-6.
- (13) **Nizet V**, Gibson RL, Chi EY, Framson PE, Hulse M, Rubens CE. Group B streptococcal beta-hemolysin expression is associated with injury of lung epithelial cells. Infect Immun 1996; 64:3818-26.
- (14) Brogan TV, **Nizet V**, Waldhausen JHT. Correspondence: Streptococcal skin infections. New Engl J Med 1996; 334:1478.
- (15) **Nizet V**; Gibson RL; Rubens CE. The role of group B streptococci beta-hemolysin expression in newborn lung injury. Adv Exp Med Biol, 1997; 418:627-30.
- (16) La Penta D; Framson P; **Nizet V**; Rubens CE. Epithelial cell invasion by group B streptococci is important to virulence. Adv Exp Med Biol 1997; 418:631-4.

- (17) Brogan TV, Nizet V. A clinical approach to differentiating necrotizing fasciitis from simple cellulitis. *Infect Med* 1997; 14: 734-8.
- (18) Nizet V, Kim KS, Stins M, Jonas M, Chi EY, Nguyen D, Rubens CE. Invasion of brain microvascular endothelial cells by group B streptococci. *Infect Immun* 1997; 65:5074-81.
- (19) Nizet V, Smith AL, Sullam PM, Rubens CE. A simple microtiter plate screening assay for bacterial invasion or adherence. *Methods Cell Sci* 1998; 20:107-11.
- (20) Gibson RL, Nizet V, Rubens CE. Group B streptococcal  $\beta$ -hemolysin promotes injury of lung microvascular endothelial cells. *Pediatr Res* 1999; 45:626-34.
- (21) Charland N, Nizet V, Rubens CE, Kim KS, Lacouture S, Nanci A, Gottschalk M. *Streptococcus suis* serotype 2 interactions with brain microvascular endothelial cells. *Infect Immun* 2000; 68:637-43.
- (22) Nizet V, Beall B, Bast DJ, Datta V, Kilburn L, Low DE, de Azavedo JCS. Genetic locus for streptolysin S production by Group A *Streptococcus*. *Infect Immun* 2000; 68:4245-54.
- (23) Ring A, Braun J, Nizet V, Stremmel W, Shenep JL. Group B streptococcal (-hemolysin induces nitric oxide production in murine macrophages. *J Infect Dis* 2000; 182:150-7.
- (24) Puliti M, Nizet V, von Hunolstein C, Bistoni F, Mosci P, Orefici G, Tissi L. Severity of group B streptococcal arthritis is correlated with  $\beta$ -hemolysin expression. *J Infect Dis* 2000; 182:824-32.
- (25) Pritzlaff CA, Chang JCW, Kuo SP, Tamura GS, Rubens CE, Nizet V. Genetic basis for the  $\beta$ -haemolytic/cytolytic activity of group B *Streptococcus*. *Mol Microbiol* 2001; 39: 236-47.
- (26) Fuller JD, Bast DJ, Nizet V, Low DE, de Azavedo JCS. *Streptococcus iniae* virulence is associated with a distinct genetic profile. *Infect Immun* 2001; 69: 1994-2000.
- (27) Dorschner RA, Pestonjamas V, Tamakuwala S, Ohtake T, Rudisill J, Nizet V, Agerberth B, Gudmundsson G, Gallo RL. Cutaneous injury induces release of cathelicidin antimicrobial peptides active against group A *Streptococcus*. *J Invest Dermatol* 2001; 117:91-7.
- (28) Nizet V, Ohtake T, Lauth X, Trowbridge J, Rudisill J, Dorschner R, Pestonjamas V, Piriano J, Huttner K, Gallo RL. Innate antimicrobial peptide protects the skin from invasive bacterial infection. *Nature* 2001; 414:454-7.
- (29) Henneke P, Takeuchi O, van Strijp JA, Guttormsen H-K, Smith JA, Schromm AB, Espevik TA, Akira S, Nizet V, Kasper D, Golenbock DT. Novel engagement of CD14 and multiple Toll-like receptors by group B streptococci. *J Immunol* 2001; 167:7069-76.
- (30) Ballon-Landa G, Gherardi G, Beall B, Krosner S, Nizet V. Necrotizing fasciitis due to penicillin-resistant *Streptococcus pneumoniae*: Case report and review of the literature *J Infect* 2001; 42:272-80.
- (31) Humar D, Datta V, Bast DJ, Beall B, DeAzavedo JCS, Nizet V. Streptolysin S and necrotizing soft tissue infections produced by Group G *Streptococcus* *Lancet* 2002; 359:124-9.
- (32) Doran KS, Chang JCW, Benoit VM, Eckmann L, Nizet V. Group B streptococcal  $\beta$ -hemolysin/cytolysin promotes invasion of human lung epithelial cells and the release of interleukin-8. *J Infect Dis* 2002; 185:196-203.
- (33) Lauth X, Shike H, Burns JC, Westerman ME, Ostland VE, Carlberg JM, Van Olst JC, Nizet V, Taylor SW, Jennings PA, Shimizu C, Bulet P. Discovery and characterization of two isoforms of moronecidin, a novel antimicrobial peptide from hybrid striped bass. *J Biol Chem* 2002; 277:5030-9.
- (34) Doran KS, Benoit VM, Gertz RE, Jr., Beall B, Nizet V. Late-onset group B streptococcal infection in identical twins: insight to disease pathogenesis *J Perinatol* 2002; 22:326-30.
- (35) Nizet V, Gallo RL. News & Comment: Surviving innate immunity. *Trends Microbiol* 2002; 10:358-9.
- (36) Ring A, Braun JS, Pohl J, Nizet V, Stremmel W, Shenep JL. Group B streptococcal hemolysin induces mortality and liver injury in experimental sepsis *J Infect Dis* 2002; 185:1745-53.
- (37) Fuller JD, Camus A, Duncan CL, Nizet V, Bast DJ, Thune RL, Low DE, De Azavedo JCS. Discovery of a streptolysin S-associated gene cluster and its role in the pathogenesis of *Streptococcus iniae* disease. *Infect Immun* 2002; 70:5730-9.
- (38) Henneke P, Takeuchi O, Malley R, Lien E, Ingalls RR, Freeman MW, Mayadas-Norton T, Nizet V, Akira S, Kasper DL, Golenbock DT. Cellular activation, phagocytosis, and bactericidal activity against group B streptococcus involve separate but parallel MyD88 dependent and MyD88 independent signaling pathways. *J Immunol* 2002; 169:3970-7.
- (39) Ring A, Depnering C, Pohl J, Nizet V, Shenep JL, Stremmel W. Group B streptococcal cell walls and  $\beta$ -hemolysin/cytolysin act in synergy to cause nitric oxide release from murine macrophages. *J Infect Dis* 2002; 186:1518-21
- (40) Nizet V. Streptococcal  $\beta$ -hemolysins: Genetics and role in disease pathogenesis. *Trends Microbiol* 2002; 10:575-580.
- (41) Jeng A, Li Z, Sakota V, Datta V, Beall B, Nizet V. Molecular genetic analysis of a group A streptococcal operon encoding serum opacity factor and a novel fibronectin-binding protein, SfbX. *J Bacteriol* 2003; 185:1208-17.
- (42) Kansal RG, Nizet V, Jeng A, Chaung WJ, Kotb M. Selective modulation of superantigen induced responses by streptococcal cysteine protease. *J Infect Dis* 2003; 187:398-407.

- (43) Cramer T, Yamanishi Y, Clausen BE, Forster I, Pawlinski R, Mackman N, Haase VH, Jaenisch R, Corr M, , Nizet V, Firestein G, Gerber H-P, Ferrara N, Johnson RS. HIF-1 $\alpha$  is essential for myeloid cell-mediated inflammation. Cell 2003; 112:645-57.
- (44) Kristian SA, Lauth X, Nizet V, Götz F, Neumeister B, Peschel A, Landmann R. Alanylation of teichoic acids protects *Staphylococcus aureus* against Toll-like receptor 2-dependent host defense in a mouse tissue cage model. J Infect Dis 2003; 188:414-23.
- (45) Zaiou M, Nizet V, Gallo RL. Antimicrobial and protease inhibitory functions of the human cathelicidin (hCAP18/LL-37) prosequence. J Invest Dermatol 2003; 120:810-6.
- (46) Gallo RL, Nizet V. Endogenous production of antimicrobial peptides in innate immunity and human disease. Curr Allergy Asthma Rep 2003; 3:402-9.
- (47) Saitoh A, Beall B, Nizet V. Fulminant bacterial meningitis complicating sphenoid sinusitis. Ped Emerg Care 2003; 19:415-7.
- (48) Nizet V, Gallo RL. Cathelicidins and innate immunity against invasive bacterial infection. Scand J Infect Dis 2003; 35:670-6.
- (49) Doran KS, Liu GY, Nizet V. Group B streptococcal  $\beta$ -hemolysin/cytolysin activates neutrophil signaling pathways in brain endothelium and contributes to development of meningitis. J Clin Invest 2003; 112:736-44.
- (50) Aziz RK, Pabst MJ, Jeng A, Kansal R, Low DE, Nizet V, Kotb M. Invasive M1T1 group A *Streptococcus* undergoes an *in vivo* phase-shift to prevent proteolytic degradation of multiple virulence factors by SpeB. Mol Microbiol 2004; 51:123-34.
- (51) Liu GY, Nizet V. Extracellular virulence factors of group B *Streptococcus*. Front Biosci 2004; 9:1794-1802.
- (52) Hidalgo-Grass C, Dan-Goor M, Maly A, Eran Y, Kwinn LA, Nizet V, Ravins M, Jaffe J, Moses AE, Hanski E. Effect of a bacterial pheromone peptide on host chemokines in group A streptococcal necrotising soft tissue infections. Lancet 2004; 263:696-703.
- (53) Bardan A, Nizet V, Gallo RL. Antimicrobial peptides and the skin. Expert Opin Biol Ther 2004; 4:543-9.
- (54) Lewis A, Nizet V, Varki A. Discovery and characterization of sialic acid O-acetylation in group B *Streptococcus*. Proc Natl Acad Sci USA 2004; 101:11123-8.
- (55) Doran KS, Nizet V. Molecular pathogenesis of neonatal group B streptococcal infection: No longer in its infancy. Molecular Microbiology 2004; 54:23-31.
- (56) Liu GY, Doran KS, Lawrence T, Turkson N, Puliti M, Tissi L, Nizet V. Sword and shield: Linked group B streptococcal  $\beta$ -hemolysin/cytolysin and carotenoid pigment act synergistically to subvert phagocytic defenses. Proc Natl Acad Sci USA 2004; 101:14491-6.
- (57) Lauth X, Babon J, Stannard JA, Singh S, Nizet V, Carlberg JM, Ostland VE, Pennington MW, Norton RS, Westerman ME. Bass hepdicin: synthesis, solution structure, antimicrobial activities and synergism, and *in vivo* hepatic response to bacterial infections. J Biol Chem 2005; 280:9272-82.
- (58) Hensler ME, Liu GY, Sobczak S, Benirschke K, Nizet V, Heldt GP. Virulence role of the group B streptococcal  $\beta$ -hemolysin/cytolysin in a neonatal rabbit model of early onset pulmonary infection J Infect Dis 2005; 191:1287-91.
- (59) Datta V, Myskowski SM, Kwinn LA, Chiem DN, Varki N, Kansal R, Kotb M, Nizet V. Mutational analysis of the group A streptococcal operon encoding streptolysin S and its virulence role in invasive infection. Mol Microbiol 2005; 56:681-95.
- (60) Lawrence T, Bebien M, Liu GY, Nizet V, Karin M. IKK $\alpha$  limits macrophage NF- $\kappa$ B activation and contributes to the resolution of inflammation. Nature 2005 434:1138-43.
- (61) Braff MH, Bardan A, Nizet V, Gallo RL. Cutaneous defense mechanisms by antimicrobial peptides. J Invest Dermatol 2005; 125:9-13.
- (62) Peyssonnaud C, Datta V, Doedens A, Theodorakis EA, Gallo RL, Hurtado-Ziola N, Nizet V\*, Johnson RS\*. HIF-1 expression regulates the bactericidal capacity of phagocytes. J Clin Invest 2005 115:1806-15. \*share senior authorship.
- (63) Liu GY, Essex A, Buchanan JT, Datta V, Hoffman HA, Bastian J, Fierer J, Nizet V. *Staphylococcus aureus* golden pigment impairs neutrophil killing and promotes virulence through its antioxidant activity. J Exp Med 2005; 202:209-15. (cover article)
- (64) Georgel P, Crozat K, Lauth X, Makrantonaki E, Seltmann H, Sovath S, Heobe K, Du X, Rutschmann S, Jiang Z, Bigby T, Nizet V, Zouboulis CC, Beutler B. A TLR2-responsive lipid effector pathway protects mammals against skin infections with Gram-positive bacteria. Infect Immun 2005; 73:4512-21.
- (65) Kristian SA, Datta V, Weidenmaier C, Kansal R, Fedtke I, Peschel A, Gallo RL, Nizet V. D-alanylation of teichoic acids promotes group A *Streptococcus* antimicrobial peptide resistance, neutrophil survival and epithelial cell invasion. J Bacteriol 2005; 187:6719-25.
- (66) Doran KS, Engelson EJ, Khosravi A, Maisey HC, Fedtke I, Equils O, Michelsen KS, Arditi M, Peschel A, Nizet V. Group B *Streptococcus* blood-brain barrier invasion depends upon proper cell surface anchoring of lipoteichoic acid. J Clin Invest 2005; 115:2499-507.

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- (68) Braff MH, Zaiou M, Fierer J, **Nizet V**, Gallo R. Keratinocyte production of cathelicidin provides direct antimicrobial activity against bacterial skin pathogens. Infect Immun 2005; 73:6771-81.
- (69) Dorschner RA, Lopez-Garcia B, Peschel A, Kraus D, Morikawa K, **Nizet V**, Gallo RL. The mammalian ionic environment induces microbial susceptibility to innate defense peptides. FASEB J 2006; 20:35-42.
- (70) **Nizet V**. Antimicrobial peptide resistance mechanisms of human bacterial pathogens. Curr Issues Mol Biol 2006; 8:11-26.
- (71) Karin M, Lawrence T, **Nizet V**. Innate immunity gone awry: Mechanisms linking microbial infections to chronic inflammatory diseases and cancer. Cell 2006; 124:823-5.
- (72) Buchanan JT, Simpson AJ, Aziz RK, Liu GY, Kristian SA, Kotb M, Feramisco J, **Nizet V**. DNase expression allows the pathogen group A *Streptococcus* to escape killing in neutrophil extracellular traps. Curr Biol 2006; 16:396-400.
- (73) Peyssonnaud C, Zinkernagel AS, Datta V, Lauth X, Johnson RS, **Nizet V**. TLR4-dependent hepcidin expression by myeloid cells in response to bacterial pathogens. Blood 2006; 107:3727-32.
- (74) Lewis ML, Hensler ME, Varki A, **Nizet V**. The group B streptococcal sialic acid O-acetyltransferase is encoded by *neuD*, a conserved component of bacterial sialic acid biosynthetic gene clusters. J Biol Chem 2006; 281:11186-92.
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- (389) Lawrence SM, Corriden R, Nizet V. The ontogeny of a neutrophil: mechanisms of granulopoiesis and homeostasis. Mol Biol Microbiol Rev 2018; 82:e00057-17.
- (390) Haripriyan J, Omanakuttan A, Menon ND, Vanuopadath M, Nair SS, Corriden R, Nair BG, Nizet V, Kumar GB. Clove bud oil modulates pathogenicity phenotypes of the opportunistic human pathogen *Pseudomonas aeruginosa*. Sci Rep 2018; 8:3457.
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- (393) Patras KA, Nizet V. Group B streptococcal maternal colonization and neonatal disease: molecular mechanisms and preventative approaches. Front Pediatr 2018; 6:27.
- (394) Askarian F, Lapek JD, Tsai CM, Kumaraswamy M, Kousha A, Valderrama JA, Ludviksen JA, Cavanagh PJ, Uchiyama S, Mollnes TE, Gonzalez DJ, Wai SN, Nizet V, Johannessen M. *Staphylococcus aureus* membrane-derived vesicles promote bacterial virulence and confer protective immunity in murine infection models. Front Microbiol 2018; 9:262.
- (395) Monogue M, Sakoulas G, Nizet V, Nicolau D. Humanized exposures of a  $\beta$ -lactam- $\beta$ -lactamase inhibitor, tazobactam, versus non- $\beta$ -lactam- $\beta$ -lactamase inhibitor, avibactam, with or without colistin, against *Acinetobacter baumannii* in murine thigh and lung infection models. Pharmacology 2018 (in press)
- (396) Gupta N, Liu R, Shin S, Sinha R, Pogliano J, Pogliano K, Griffin JH, Nizet V, Corriden R. SCH79797 improves outcomes in experimental bacterial pneumonia by boosting neutrophil killing and direct antibiotic activity. J Antimicrob Chemother 2018 (in press)

#### MANUSCRIPTS CURRENTLY IN PEER REVIEW

- (1) Munguia J, Lin L, Olson J, Nonejuie P, Gallo RL, Adams MD, Kirkup BC, Pogliano J, Zurawski DV, Nizet V. Outer membrane lipid modifying protein VacJ contributes to antimicrobial peptide resistance and virulence of multidrug-resistant *Acinetobacter baumannii*.
- (2) Pence MA, Malone C, van Sorge NM, Horswill AR, Nizet V. The metalloprotease aureolysin is not essential for cathelicidin resistance nor virulence of methicillin-resistant *Staphylococcus aureus*.
- (3) van den Broek M, Claes I, Nizet V, Lebeer S. Antimicrobial activity of lactobacilli and lactic acid against key otitis media pathogens.
- (4) Caffrey AR, Timbrook TT, Ali SR, Nizet V, Sakoulas G. Proton pump inhibitors do not influence clinical outcomes in patients with *Staphylococcus aureus* bacteremia.
- (5) Alisson-Silva F, Liu J, Diaz S, Deng L, Gareau M, Chen X, Nizet V, Varki N, Barrett K, Varki A. Human evolutionary loss of epithelial Neu5Gc expression and the species-specific susceptibility to cholera.
- (6) Askarian F, Wagner T, Johannessen M, Nizet V. Modulation of inflammatory responses by *Staphylococcus aureus* mediated through pattern recognition receptor signaling.
- (7) Pashangeh S, Shekarforoush SS, Aminlari M, Hosseinzadeh S, Nizet V, Dahesh S, Rahmdel S. Molecular characteristics of histamine producing and degrading staphylococci isolated from goats and sheep milk.

- (8) Henningham A, Davies MR, Chan A, Thompson LF, Stewart C, Buffalo CZ, Corriden R, McIntyre L, Olson J, Ghosh P, Boss GR, Walker MJ, Cole JN, Nizet V. The conserved surface-associated 5'-nucleotidase of group A *Streptococcus* is a vaccine antigen that protects against systemic infection.
- (9) Sun J, LaRock DL, Kimmey JM, Olson J, Jiang Z, O'Donoghue AJ, Nizet V, LaRock CN. *Pseudomonas aeruginosa* proteolytic activation of IL-1 $\beta$  drives pathological inflammation.
- (10) Sakoulas G, Murray B, Askarian F, Nizet V. Ertapenem and cefazolin synergism in methicillin-susceptible *Staphylococcus aureus* with type A beta-lactamase.
- (11) Kumaraswamy M, Collignon S, Do C, Kim J, Nizet V, Friend J. Decontaminating surfaces with atomized disinfectants generated by a novel thickness-mode lithium niobate device.
- (12) LaRock DL, Ettouati E, Richard M, Bushway PJ, Adler ED, Nizet V, LaRock CN. Inflammasome inhibition protects against cardiac glycoside cellular toxicity.
- (13) Fong J, Tsai CM, Nizet V, Varki A, Bui J. Group B *Streptococcus* suppresses pyroptosis and inflammasome signaling in natural killer cells via Siglec-7.
- (14) Kavvas E, Catoi E, Mih N, Yurkovich J, Seif Y, Dillon N, Heckmann D, Anand A, Yang L, Nizet V, Monk J, Palsson BO. Machine learning and structural analysis of *Mycobacterium tuberculosis* pan-genome identifies genetic signatures of antibiotic resistance.
- (15) Corriden R, Döhrmann S, Flores R, Denholtz M, Catteau L, Olson J, Chen A, Carlin AF, Nizet V. Free fatty acids enhance formation of neutrophil extracellular traps.
- (16) Dan JM, Dr. Colin Havenar-Daughton C, Kendrick K, Kaushik K, Rosales S, Anderson E, LaRock C, Pandurangan V, Seumois G, Layfield D, Cutress R, Ottensmeier C, Lindestam Alrehman C, Sette A, Nizet V, Bothwell M, Brigger M, Crotty S. Recurrent tonsillitis is a genetic immunosusceptibility disease associated with poor antibody responses and aberrant T follicular helper cells.
- (17) van Hensbergen VP, Movert E, de Maat V, Le Breton Y, Lambeau G, Payre C, Kahn F, Henningham A, Nizet V, Van Strijp JA, Carlsson F, McIver KS, van Sorge NM. Streptococcal Lancefield polysaccharides are critical cell wall determinants for human group IIA secreted phospholipase A2 to exert its bactericidal effects.
- (18) Kumaraswamy M, Collignon S, Do C, Kim J, Nizet V, Friend J. Decontaminating surfaces with atomized disinfectants generated by a novel thickness-mode lithium niobate device.
- (19) Patras KA, Derieux J, Al-Bassam MM, Adiletta N, Vrbanac A, Lapek JD, Zengler K, Gonzalez DJ, Nizet V. Group B *Streptococcus* biofilm regulatory protein A contributes to bacterial physiology and innate immune resistance.

#### PUBLISHED BOOK CHAPTERS

- (1) Palefsky J, Winkler B, Braga C, Nizet V, Schoolnik GK. The predictive value of Pap smear, colposcopy, and cervical biopsy in determining human papillomavirus (HPV) positivity. In: *Viruses and Human Cancer*. UCLA Symposia on Molecular and Cellular Biology, Vol 43 (RC Gallo, W Haseltine, G Klein and H Zur Hausen, eds.) Alan R. Liss, New York, p. 387-96. 1987.
- (2) Palefsky JM, Winkler B, Nizet V, Kidd JL, Schoolnik GK. Detection of human papillomavirus proteins: the synthetic peptide approach. In: *Cancer Cells 5, Papillomaviruses*. (B Steinberg, J Brandsma and L Tachman, eds.) Cold Spring Harbor Press, p. 101-4. 1986.
- (3) Nizet V. Myositis and pyomyositis. In: *Principles and Practices of Pediatric Infectious Diseases*. (S. Long, LK Pickering, CG Prober, eds.) Churchill Livingstone, New York, p. 517-23. 1997.
- (4) Nizet V. Localized lymphadenitis, lymphadenopathy and lymphangitis. In: *Principles and Practices of Pediatric Infectious Diseases*. (S Long, LK Pickering, CG Prober, eds.) Churchill Livingstone, New York, p. 523-527, 1997.
- (5) Nizet V, Ferrieri P, Rubens CE. Molecular pathogenesis of group B streptococcal disease in newborns. In: *Streptococcal Infections: Clinical Aspects, Microbiology, and Molecular Pathogenesis* (DL Stevens, EL Kaplan, eds.). Oxford University Press, New York, p. 180-221. 2000.
- (6) Nizet V, Rubens CE. Pathogenic mechanisms and virulence factors of group B streptococci. In: *The Gram-Positive Pathogens* (VA Fischetti, RP Novick, JJ Ferretti, DA Portnoy, JI Rood, eds.). ASM Press. Washington, D.C., p. 125-36, 2000.
- (7) Pritzlaff CA, Chang JCW, Tamura GS, Rubens CE, Nizet V. Genetic basis of the group B streptococcal  $\beta$ -hemolysin/cytolysin. In: *Streptococci and Streptococcal Diseases - Entering the New Millennium*. Proceedings XIV Lancefield International Symposium on Streptococci and Streptococcal Diseases. (DR Martin, JR Tagg, eds.). Securacopy, N.Z., p. 393-6, 2000.
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- (10) **Nizet V.** Localized lymphadenitis, lymphadenopathy and lymphangitis. In: Principles and Practices of Pediatric Infectious Diseases, 2<sup>nd</sup> Edition (S Long, LK Pickering, CG Prober, eds.). Churchill Livingstone, New York, p. 463-7, 2003.
- (11) **Nizet V.** Antimicrobial peptide resistance in human bacterial pathogens. In: Antimicrobial Peptides in Human Health and Disease. Ed: R.L. Gallo. Horizon Press. Norwich UK, p. 277-304, 2005.
- (12) Edwards MS, **Nizet V**, Baker CJ. Group B streptococcal infections. In: Infectious Diseases of the Fetus and Newborn Infant, 6th Edition. Eds: J Remington, J Klein, CJ Baker, CB Wilson. Elsevier Saunders, Philadelphia, p. 404-64, 2006.
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- (15) Timmer AM, Datta V, Kristian S, Jeng A, Beall B, **Nizet V.** The contribution of serum opacity factor to group A streptococcal epithelial cell invasion. In Streptococci - New Insights Into an Old Enemy. International Congress Series 129. Elsevier. Amsterdam, p. 246-9, 2006.
- (16) Maisey HC, Hensler ME, Khosravi A, Liu GY, **Nizet V**, Doran KS. A single streptococcal gene can confer innate immune resistance and virulence to a nonpathogenic bacterium. In Streptococci - New Insights Into an Old Enemy. International Congress Series 129. Elsevier. Amsterdam, p. 223-6, 2006.
- (17) Kristian SA, Datta V, Weidenmaier C, Kansal R, Fedtke I, Peschel A, Gallo RL, **Nizet V.** DltABCD mediated D-alanylation of teichoic acids in group A *Streptococcus* confers innate immune resistance. In Streptococci - New Insights Into an Old Enemy. International Congress Series 129. Elsevier. Amsterdam, p. 254-6, 2006.
- (18) **Nizet V**, Jackson MA. Localized lymphadenitis, lymphadenopathy and lymphangitis. In: Principles and Practices of Pediatric Infectious Diseases, 3<sup>rd</sup> Edition (S Long, LK Pickering, CG Prober, eds.). Churchill Livingstone, New York, p. 463-7, 2008.
- (19) **Nizet V**, Esko J. Bacterial and viral infections. In: Essentials of Glycobiology, 2<sup>nd</sup> Edition (A Varki, R Cummings, J Esko, H Freeze, G Hart, J Marth, eds.) Cold Spring Harbor Press, Boston, 2009.
- (20) von Köckritz-Blickwede M, Chow O, Ghochani M, **Nizet V.** Visualization and functional evaluation of phagocyte extracellular traps. In: Methods in Microbiology (Volume 37) Immunology of Infection, 3<sup>rd</sup> Edition (D Kabelitz and SH Kaufmann, eds). Academic Press, London, p. 139-60, 2010.
- (21) **Nizet V**, Klein JO. Bacterial sepsis and meningitis. In: Infectious Diseases of the Fetus and Newborn Infant, 7th Edition. (J Remington, JO Klein, CB Wilson, V. Nizet, B. Maldonado, ed.) Elsevier, Philadelphia, p. 222-75, 2011.
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- (23) **Nizet V**, Bradley JS. Staphylococcal infections. In: Infectious Diseases of the Fetus and Newborn Infant, 7th Edition. (J Remington, JO Klein, CB Wilson, V. Nizet, B. Maldonado, ed.) Elsevier, Philadelphia, p. 489-515. 2011.
- (24) Arnold JC, **Nizet V.** Pharyngitis. In: Principles and Practices of Pediatric Infectious Diseases, 4<sup>th</sup> Edition (S Long, LK Pickering, CG Prober, ed.). Elsevier, Philadelphia, Chapter 27, 2012.
- (25) **Nizet V**, Arnold JC. *Streptococcus pyogenes* (group A Streptococcus). In: Principles and Practices of Pediatric Infectious Diseases, 4<sup>th</sup> Edition (S Long, LK Pickering, CG Prober, ed.). Elsevier, Philadelphia, Chapter 118, 2012.
- (26) **Nizet V**, Doran K. Group B streptococcal meningitis. In: "Meningitis: Cellular and Molecular Basis" (M. Christodoulides, ed.), CABI, London 2013, pp. 118-32.
- (27) Maldonado Y, **Nizet V**, Klein JO, Remington J, Wilson CB. Current concepts of infections of the fetus and newborn infant. In: Infectious Diseases of the Fetus and Newborn Infant, 8th Edition. (J Remington, JO Klein, CB Wilson, V. Nizet, Y. Maldonado, ed.) Elsevier, Philadelphia, p. 3-23, 2015.
- (28) **Nizet V**, Klein JO. Bacterial sepsis and meningitis. In: Infectious Diseases of the Fetus and Newborn Infant, 8th Edition. (J Remington, JO Klein, CB Wilson, V. Nizet, Y. Maldonado, ed.) Elsevier, Philadelphia, p. 217-271, 2015.
- (29) Overturf GD, Muller M, **Nizet V.** Focal Bacterial Infections. In: Infectious Diseases of the Fetus and Newborn Infant, 8th Edition. (J Remington, JO Klein, CB Wilson, V. Nizet, Y. Maldonado, ed.) Elsevier, Philadelphia, p. 319-349, 2015.
- (30) Edwards MS, **Nizet V.** Group B streptococcal infections. In: Infectious Diseases of the Fetus and Newborn Infant, 8th Edition (J Remington, JO Klein, CB Wilson, V. Nizet, Y. Maldonado, ed.) Elsevier, Philadelphia, p. 411-455. 2015.

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- (32) Cole JN, **Nizet V**. Bacterial evasion of host antimicrobial peptide defenses. In: Virulence Mechanisms of Bacterial Pathogens, 5<sup>th</sup> Edition. ASM Press 2016 (in press)
- (33) **Nizet V**, Varki A, Aebi M. Microbial lectins: hemagglutinins, adhesins, and toxins. In: Varki A, Cummings RD, Esko JD, Stanley P, Hart GW, Aebi M, Darvill AG, Kinoshita T, Packer NH, Prestegard JH, Schnaar RL, Seeberger PH, editors. Essentials of Glycobiology [Internet]. 3rd edition. Cold Spring Harbor Laboratory Press. Chapter 37.
- (34) Arnold JC, **Nizet V**. Chapter 27: Pharyngitis, pp. 202-208 In: Principles and Practices of Pediatric Infectious Diseases, 5th Edition (S Long, CG Prober, Fischer M, eds.). Elsevier, Philadelphia, 2017.
- (35) **Nizet V**, Arnold JC. Chapter 118: Streptococcus pyogenes (group A Streptococcus), pp. 715-723. In: Principles and Practices of Pediatric Infectious Diseases, 5th Edition (S Long, CG Prober, Fischer M, eds.). Elsevier, Philadelphia, 2017.

#### EXTRAMURAL GRANTS AND CONTRACTS

01-K08-AI01451, Nizet (PI) NIH / NIAID <i>"Molecular Basis of Lung Injury in GBS Pneumonia"</i>	04/01/1997 - 03/31/2001
01-R03-HD37224-01, Nizet (PI) NIH / NICHD <i>"Penetration of the Blood-Brain Barrier in GBS Meningitis"</i>	02/01/1999 - 01/31/2001
Research Grant, Nizet (PI) Agency: United Cerebral Palsy Research Foundation <i>"GBS Meningitis: Bacterial Penetration of the Neonatal Blood-Brain Barrier"</i>	07/01/1999– 12/31/2001
Culpepper Biomedical Project Initiative Grant, Nizet (PI) Rockefeller Brother Funds <i>"Streptolysin S and the Pathogenesis of GAS Necrotizing Fasciitis"</i>	07/01/2000 - 06/30/2001
01-R21-AI48176, Gallo (PI), Nizet (PI of subcontract) NIH/NIAID (40% of budget to Nizet Lab) <i>"Cathelicidins: A Molecular Bacteriologic Approach"</i>	09/01/2000 - 08/31/2001
NRI Research Grant, Nizet (PI) Agency: U.S. Dept. of Agriculture, National Research Initiative <i>"Virulence Factors of the Aquaculture Pathogen Streptococcus iniae"</i>	11/01/2001 – 10/31/2002
Mallinckrodt Scholar Award, Nizet (PI) Edward Mallinckrodt, Jr. Foundation <i>"β-Hemolysins, Innate Immunity, and the Pathogenesis of Invasive Streptococcal Infection"</i>	10/01/2002 – 09/30/2005
01-R01-AI48176-01, Gallo (PI), Nizet (subcontract PI) NIH/NIAID via VMRF <i>"Cathelicidins and Skin Immunity"</i>	09/01/2002 – 03/30/2006
02-R01AI040198, Kotb (PI), Nizet (subcontract PI) NIH/University of TN-Health Sci Ctr <i>"Immunopathogenesis of Group A Streptococcal Infection"</i>	08/15/2003 – 08/15/2007
01-R01-A148694, Nizet (PI) NIH/NIAID <i>"SLS: Molecular Basis and Role in Invasive GAS Disease"</i>	04/01/2002 – 03/31/2009
Type: P01, Varki (PI), Nizet (co-Inv) NIH/ NHLBI (5% salary to Nizet)	02/01/2003 – 01/31/2006



*"Genetic Modulation of Blood and Vascular Glycosylation"*

Career Investigator Award, Nizet (PI) 07/01/2004 – 06/30/2007  
American Lung Association  
*"Lung Injury in Neonatal Pneumonia: Pathogenesis & Surfactant Therapy"*

Advanced Technology Program (Carlberg, PI), (Nizet, subcontract-PI) 01/01/2005 – 12/31/2007  
NIST/Kent SeaTech Corp  
*"Bacteriophage Therapeutics as Replacements for Conventional Antibiotics in Aquaculture"*

US-Israeli Binational Science Foundation, Hanski (PI) 01/01/2005 – 12/31/2008  
BSF Award (25% of budget to Nizet Lab)  
*"Group A Streptococcus IL-8 Protease that Subverts Host Innate Immunity"*

Established Investigator Award, Nizet (PI) 01/01/2005 – 12/31/2009  
American Heart Association  
*"The Response of the Blood-Brain Barrier to the Meningeal Pathogen GBS"*

R01-AI060840, Johnson (PI), Nizet (co-investigator) 05/01/2005 – 01/31/2000  
NIH/NIAID (40% of budget to Nizet Lab)  
*"Hypoxia-Induced Responses and Innate Immunity"*

USDA 2005-05191 Highlander (PI), Nizet (subcontract PI) 12/01/2005 - 11/30/2007  
NSF//USDA/Baylor  
*"Genome Sequencing of Streptococcus iniae, an Emerging Pathogen of Aquaculture"*

01-R01-AR052728, Gallo (PI), Nizet (PI of Subcontract) 04/01/2006 – 01/31/2016  
NIH/VMRF (33% of budget to Nizet Lab), Competitive Renewal Score: 1st percentile  
*"Proteolysis and Skin Antimicrobials"*

5 U10 HD031318-15 Capparelli (PI), Nizet (co-Investigator) 01/01/2006 – 12/31/2009  
NIH/NICHHD (10% salary to Nizet as Medical Director)  
*"Pediatric Pharmacology Research Unit"*

1-R21-AI065993 Aroian (PI), Nizet (co-PI) 03/01/2006 – 02/28/2008  
NIH/NIAID (40% of budget to Nizet Lab)  
*"C. elegans Model of B. anthracis Pathogenesis and Immunity"*

01-R01-HD051796, Nizet (PI) 04/07/2007 – 02/28/2011  
NIH/NICHHD  
*"Sialic Acid O-Acetylation in GBS Pathogenesis and Immunity"*

Individual Research Grant, Nizet (PI) 07/01/2007 – 06/30/2008  
California Sea Grant College Program  
*"Pathogenesis of Streptococcus iniae infection in Fish and Development of an Effective Vaccine"*

02-R01-AI052453-06, Gallo (PI), Nizet (co-investigator) 09/15/2007 – 08/31/2012  
NIH/NIAID via VMRF (33% of budget to Nizet Lab)  
*"Cathelicidins and Skin Immunity"*

03-P01-HL057345 Varki (PI), Nizet (Co-Investigator) 01/21/2008 – 12/30/2012  
NIH/NHLBP, (Nizet, 5% salary support)  
*"Genetic Modulation of Blood and Vascular Glycosylation"*

R01 Mechanism Fenical, Nizet (co-PIs) 04/01/2008 – 03/31/2013  
NIH/NIGMS (50% of budget to Nizet Lab)  
*"The Discovery of New Antibiotics from Deep Sea Actinomycete Bacteria"*

Senior Investigator Award, Nizet (PI) 07/01/2008 – 06/30/2011  
Strategic Program for Asthma Research

"*HIF Control of Inflammatory Responses in Asthma*"  
R01-A1077780, Nizet (PI) 09/01/2008 – 08/31/2013  
NIH/NIAID  
"*GAS Switch from Colonizing Bacterium to Invasive Pathogen*"

Sponsored Research Contract, Nizet (PI) 10/01/2009 – 09/30/2010  
Akebia Therapeutics, Indianapolis, IN  
"*Evaluation of HIF Boosting Drugs for Treatment of Bacterial Infections*"

1R01AI0993451-01, Nizet (PI) 04/05/2011 – 03/31/2017  
NIH/NIAID  
"*Boosting Innate Immunity Through HIF to Treat Drug-Resistant Bacterial Infections*"

1 P01 HL107150-01, Varki (PI), Nizet (Project Leader) 07/01/2011 -- 06/30/2018  
NIH/NHLBI  
Project 2: "*Microbial Glycan Mimicry and Glycosidases in Inflammatory Responses*"

DOD Medical Research Program, Shalwitz (PI), Nizet (subcontract PI) 02/10/2011 - 03/09/2013  
Department of the Army-USAMRAA via Akebia Therapeutics  
"*Boosting Innate Immunity to Combat Wound Infections*"

R01-AI096837-01, Ghosh and Nizet (co-PIs) 07/01/2011 – 06/30/2016  
NIH/NIAID  
"*Mechanisms of M Protein in Group A Streptococcus Virulence*"

U54-HD071600, Capparelli and Nizet (co-PIs) 10/01/2011 – 06/30/2016  
NIH/NICHD  
"*Developmental and Translational Pharmacology of Pediatric Antimicrobial Therapy*"

5U54AI057153-09 Nizet (PI) 03/01/2012 – 02/28/2014  
NIH/NIAID via GLRCE/U. Chicago  
"*Optimizing Phagocytic Activity Against Antibiotic-Resistant Pathogens*"

Sponsored Research Contract, Nizet (PI) 04/16/2012 – 04/15/2015  
Altermune Technologies, LLC  
"*Modified Aptamers to Redirect Pre-existing Antibodies to Drug-Resistant Bacteria*"

Sponsored Research Contract, Nizet (PI) 12/01/2013 – 11/30/2016  
InhibiRX, Inc.  
"*Evaluation of Engineered Antibacterial Therapeutics Antibodies*"

1 R01 AI110713-01, Bier and Nizet (co-PIs) 04/01/2014 – 03/31/2019  
NIH/NIAID  
"*Analyzing a novel mechanism of action of bacterial cAMP producing toxins*"

1R01 HL125352-01, Marth and Nizet (co-PIs) 09/01/2014 – 05/31/2019  
NIH/NHLBI  
"*Glycoprotein Remodeling in the Vasculopathy and Coagulopathy of Sepsis*"

Sponsored Research Contract, Nizet (PI) 01/01/2015 – 12/31/2016  
Cidara Therapeutics, Inc.  
"*Cloudbreak Antifungal and Antibacterial Therapeutics*"

Sponsored Research Contract, Nizet (PI) 01/01/2015 – 12/31/2017  
Roche Pharmaceutical Research and Early Development (pRED)  
"*Discovery of Novel Innate Immune Boosting Anti-infectives*"

R01-A1077780-06, Nizet (PI) 04/01/2015 – 03/31/2020  
NIH/NIAID

*"GAS Switch from Colonizing Bacterium to Invasive Pathogen"*

R01GM114139-01A1, Troemel (PI), Nizet (co-I) 08/18/2015-07/31/2019  
NIH \$39,500  
*"Perturbation of Core Processes Triggers Host Defense Against Pathogens"*

1 U01 AI124316-01, Palsson (PI), Nizet (Project Leader) 03/15/2016-02/28/2021  
NIH/NIAID  
*"Systems Biology Approach to Redefine Susceptibility Testing and Treatment of MDR Pathogens in the Context of Host Immunity"*

U54 HD090259-01, Tremoulet and Nizet (Co- PIs) 09/20/2016-06/30/2021  
*"Pediatric and Developmental Pharmacology for Inflammatory and Infectious Diseases"*

NAMED LECTURESHIPS

- (1) Jack Light Lectureship in Pediatrics, Cedars-Sinai Medical Center, Los Angeles, CA, 4/04.
- (2) Ben Kagan/Columbus McAlpin Memorial Lectureship, Cedars Sinai Medical Center, Los Angeles, 5/05.
- (3) E. Mead Johnson Award Lecture, Pediatric Academic Societies Meeting, Honolulu, HI, 05/08.
- (4) Paul Gaffney Memorial Lectureship, Univ. of Pittsburgh Department of Pediatrics, Pittsburgh PA, 10/08.
- (5) Margaret Walsh Visiting Professorship, Children's Hospital Boston/Harvard University, Boston MA 6/11.
- (6) Skerman Lectureship, Chemistry & Molecular Biosciences, Univ. of Queensland, Brisbane, Australia, 8/11.
- (7) Rapp Foundation Grand Rounds in Pediatrics, U. of Oklahoma Health Sciences Center, Oklahoma City, OK, 7/12.
- (8) Edwin H. Beachey Distinguished Visiting Professorship and Lectures, Department of Microbiology, Immunology and Biochemistry, University of Tennessee Health Sciences Center, Memphis, TN, 5/13.
- (9) Orton K. Stark Memorial Lectureship, Dept of Microbiology, Miami University, Oxford, OH, 4/14.
- (10) Morris Green Pediatric Physician-Scientist Development Program Annual Visiting Professorship, Univ. of Indiana, Indianapolis, IN, 1/15.
- (11) Indiana Institute for Personalized Medicine Annual Visiting Professorship, Univ. of Indiana, Indianapolis, IN, 1/15.
- (12) Muzhi Shan Chair Lecture, Taipei Medical University, Taipei, Taiwan, 11/15

KEYNOTE AND PLENARY LECTURES

- (1) Plenary Speaker, Swiss Society of Infectious Diseases Annual Meeting, Lausanne, Switzerland, 08/08.
- (2) Keynote Speaker, Pediatric Research Symposium, Univ. of Michigan Dept. of Pediatrics, Ann Arbor, MI, 11/08.
- (3) Opening Plenary Speaker, 50<sup>th</sup> European Society for Pediatric Research Congress, Hamburg, Germany, 10/09.
- (4) Keynote Speaker, International Symposium on Pathogen-Host Interaction, Beijing, China, 11/09.
- (5) Keynote Speaker, 4th Infection & Immunity Research Forum, Univ. of Western Ontario, London, Ontario, 11/09.
- (6) Keynote Speaker, Jan Verhoef Farewell Symposium, Eijkman-Winkler Institute, Utrecht, The Netherlands, 12/09.
- (7) Keynote Speaker, Mark Wilson Conference on Oral Microbiology & Immunology, Cancun, Mexico, 2/10.
- (8) Keynote Speaker, International Conference on Gram-Positive Pathogens, Omaha, NE, 10/10.
- (9) Keynote Speaker, 20th Annual Philadelphia Infection & Immunity Forum, Philadelphia, PA, 6/11.
- (10) Keynote Speaker, 40th Anniversary Jubilee of the Biozentrum of the University of Basel, Basel, Switzerland, 9/11.
- (11) International Keynote Speaker, BacPath 2013, Tantalooma Island, Australia, 10/13.
- (12) Keynote Speaker, Minnesota Dermatological Society Annual Meeting, Minneapolis, MN, 11/13.
- (13) Keynote Speaker, Altant 2014 - Innate Host Defense Mechanisms in Infections, Utrecht, The Netherlands, 5/14
- (14) Opening Keynote Speaker, Gordon Conference on Microbial Toxins and Pathogenesis, Waterville Valley, NH, 7/14.
- (15) Opening Keynote Speaker, 2015 UCSD Biology/Salk Retreat, Lake Arrowhead, CA, 9/15
- (16) Opening Plenary Speaker, 5<sup>th</sup> International Symposium on Infectious Disease and Signal Transduction, National Cheng Kung University, Tainan, Taiwan, 11/15.
- (17) Plenary Address, Antimicrobial Activity & Defence Strategies at the Mucosal Surface, Albufeira, Portugal, 4/16.
- (18) Plenary Address, 60<sup>th</sup> Wind River Conference on Prokaryotic Biology, Estes Park, CO, 4/16.
- (19) International Plenary Speaker, Australian Society for Microbiology Meeting, Perth, Australia, 7/16
- (20) Keynote Speaker, La Jolla Institute of Allergy & Immunology Annual Retreat, Lake Arrowhead, CA, 10/16
- (21) Opening Keynote Lecture, SialoGlyco2016 Conference, Santa Barbara, CA, 11/16
- (22) International Keynote Speaker and Chief Guest, BioCrest 2017- An International Symposium on Microbial Pathogenesis, Amrita School of Biotechnology, Amrita University, Kollam, Kerala, India, 1/17
- (23) International Plenary Speaker, Forum of the Chinese Collaborative Center for Diagnosis and Treatment of Infectious Disease (CCID), Zhejiang University, Hangzhou, China, 3/17

- (24) Keynote Speaker, Launch Symposium of the Florey Institute for Host-Pathogen Interactions, University of Sheffield, Sheffield, UK, 6/17
- (25) Opening Keynote Lecture, 20<sup>th</sup> Lancefield International Symposium on Streptococci and Streptococcal Diseases, Denarau Island, Fiji, 10/17
- (27) Opening Keynote Lecture, Clinical and Translational Immunology Section of the Mexican Immunology Society Symposium on Inflammation Biology, UNAM Institute of Biotechnology, Cuernavaca, Mexico, 11/17
- (28) Keynote Speaker, Infectious Disease and Biodefense Research Day, Department of Microbiology, Immunology and Cancer Biology, University of Virginia, Charlottesville, VA, 3/18
- (29) Plenary Lecture, Symposium on Antibacterial Resistance: Challenges and Opportunities, New York Academy of Sciences, New York, NY, 10/18
- (30) Founding Chair, Gordon Conference on Streptococcal Biology, Sunday River, Newry, ME, 8/18

#### INVITED SEMINARS, GRAND ROUNDS AND CONFERENCE PRESENTATIONS

- (1) Invited Lecture, Nobel Symposium No. 124, "Septicemia and Shock: Pathogenesis and Novel Therapeutic Strategies", Karolinska Institutet, Stockholm, Sweden, 5/03.
- (2) Invited Lecture, Association of Neonatologists of Southern California Meeting, Irvine, CA, 10/03.
- (3) Invited Seminar, Baylor University College of Medicine, Department of Pediatrics, Houston, TX, 1/04.
- (4) Grand Rounds, Dept. of Laboratory Medicine & Pathology, Univ. of Minnesota, Minneapolis, MN, 3/04.
- (5) Pediatric Grand Rounds, University of Minnesota, Minneapolis, MN, 3/04.
- (6) Invited Lecture, 104<sup>th</sup> General Meeting of the American Society for Microbiology, New Orleans, LA, 5/04.
- (7) Invited Seminar, University of Toronto, Infectious Disease Research Day, Toronto, ON, Canada, 6/04.
- (8) Invited Lecture, 46<sup>th</sup> ICAAC, Washington, DC, 12/05.
- (9) Invited Seminar, University of Iowa, Department of Microbiology, Iowa City, IA, 1/06.
- (10) Progress in the Science of Medicine (PRISM) Lecture, UCSD School of Medicine, La Jolla, CA, 2/06.
- (11) Invited Seminar, Point Loma College Perspectives in Science, San Diego, CA, 2/06.
- (12) Invited Seminar, Univ. of Massachusetts Medical School, Division of Infectious Diseases, Worcester, MA, 3/06.
- (13) Session Chair, ASM Conference on Streptococcal Genetics, St. Malo, France, 6/06.
- (14) Invited Lecture, Steering Committee of the Pediatric Pharmacology Research Unit, Rockville, MD, 7/06.
- (15) Invited Lecture, 14<sup>th</sup> Annual International Meeting on Microbial Genomics, Lake Arrowhead, CA, 9/06.
- (16) Session Chair, Frontiers of Clinical Investigation 2006: From Bench to Bedside. La Jolla, CA, 10/06.
- (17) Pediatric Grand Rounds, Univ. of California, San Francisco, San Francisco, CA, 10/06.
- (18) Invited Seminar, Biomedical Sciences, Univ. of California, San Francisco, San Francisco, CA, 10/06.
- (19) Invited Seminar, Connect – Frontiers in Science and Technology, San Diego, CA, 11/06.
- (20) Invited Seminar, Cell & Molecular Biology Series, San Diego State University, San Diego, CA, 11/06.
- (21) Invited Seminar, La Jolla Institute of Allergy & Immunology, La Jolla, CA, 1/07.
- (22) Invited Lecture, American Chemical Society Meeting, Pfizer La Jolla R&D, La Jolla, CA, 1/07.
- (23) Invited Lecture, American Academy of Allergy, Asthma & Immunology Meeting San Diego, CA, 1/07.
- (24) Invited Lecture, Challenge of Antibacterial Drug Development: Integrating Chemistry and Biology, Cambridge Healthtech Conferences, San Diego, CA, 3/07.
- (25) Department of Medicine Grand Rounds Speaker, UCSD School of Medicine, San Diego, CA, 3/07.
- (26) Invited Lecture, Gordon Research Conference on Antimicrobial Peptides, Il Ciocco, Italy, 5/07.
- (27) Invited Lecture, Contemporary Forums: Neonatal Pharmacology, La Jolla, CA, 5/07.
- (28) Invited Lecture, Infection & Immunity in Children – The Oxford Course, Oxford, England, 6/07.
- (29) Invited Lecture, Gordon Research Conference on Staphylococcal Diseases, Les Diablerets, Switzerland, 9/07.
- (30) Invited Seminar, Institute of Experimental Immunology, University of Zurich (Host: Prof. Rolf Zinkernagel), Zurich, Switzerland, 09/07.
- (31) Invited Lecture, CSHL Meeting on Microbial Pathogenesis and Host Immunity, New York, 09/07.
- (32) Invited Lecture and Co-Organizer, Workshop in the Experimental Sciences on Signal Transduction in Host-Bacterial Interactions, Institute of Advanced Studies, Hebrew University of Jerusalem, Jerusalem, Israel, 10/07.
- (33) Invited Seminar, University of New Mexico Health Sciences Center, Albuquerque, New Mexico, 11/07.
- (34) Invited Seminar (elected by annual student vote), Department of Microbiology and Molecular Genetics Seminar Series, Harvard Medical School, Boston, MA, 11/07.
- (35) Conference Chair and Opening Speaker, "Strategies to improve understanding and treatment of pediatric infectious diseases: MRSA", NIH/NICHD, Bethesda, MD, 12/07.
- (36) Invited Seminar, St. Jude/PIDS Pediatric Infectious Diseases Research Conference, Memphis, TN, 02/08.
- (37) Invited Seminar, Microbiology Department, Univ. of Pennsylvania School of Medicine, Philadelphia, PA, 3/08
- (38) Invited Speaker, Frontiers in Science Program, Association of Medical School Pediatric Department Chairs Annual Meeting, Santa Fe, NM, 03/08.
- (39) Invited Lecture and Session Chair, 108<sup>th</sup> American Society for Microbiology Meeting, Boston, MA, 06/08.

- (40) Invited Seminar, Charité-Universitätsmedizin Berlin, Campus Virchow-Klinikum, Berlin, Germany, 06/08.
- (41) Invited Seminar, Max Planck Institute for Infection Biology, Berlin, Germany, 06/08.
- (42) Invited Lecture, 10<sup>th</sup> International Endotoxin & Innate Immunity Society Meeting, Edinburgh, Scotland, 07/08.
- (43) Invited Seminar, Instituto de Biotecnología, UNAM, Cuernavaca, Morelos, Mexico, 08/08.
- (44) Pediatric Grand Rounds Speaker, Hospital for Sick Children, Toronto, CA, 9/08.
- (45) Invited Lectures, Contemporary Forums: The Fetus & Newborn: State-of-the-Art Care, La Jolla, CA, 10/08.
- (46) Invited Seminar, Pediatric Research Series, Univ. of Rochester School of Medicine, Rochester, NY, 10/08.
- (47) Invited Lecture and Session Chair. BioSymposia: Hypoxia, Ischemia & Inflammation, Boston, MA 11/08.
- (48) Invited Seminar, Department of Microbiology and Immunology, University of California, Davis, Davis, CA, 11/08.
- (49) Invited Lecture, Hot Topics in Neonatology 2008, Washington D.C., 12/08.
- (50) Invited Seminar, Dept. of Microbiology & Immunology, Cornell Univ. School of Veterinary Medicine, NY, 2/09.
- (51) Discussion Leader, Gordon Conference on Antimicrobial Defense Peptides, Ventura, CA, 3/09.
- (52) Invited Lecture, UCSD School of Medicine 40<sup>th</sup> Anniversary Symposium, La Jolla, CA, 3/09.
- (53) Invited Lecture, 31<sup>st</sup> Annual Burnham Institute for Medical Research Symposium, La Jolla, CA, 04/09.
- (54) Invited Lecture, Neonatal Immunity and Infection, Pediatric Academic Societies Meeting, Baltimore, MD, 5/09.
- (55) Invited Lecture, Biology and Treatment of Sepsis, Pediatric Academic Societies Meeting, Baltimore, MD, 5/09.
- (56) Invited Lecture, Modulation of Immunity by Bacterial Pathogens, ASM General Meeting, Philadelphia, PA, 5/09.
- (57) Invited Lecture, American Society of Gene and Cell Therapy 12<sup>th</sup> Annual Meeting, San Diego, CA, 5/09.
- (58) Invited Lecture. Nobel Symposium No. 140: Acute Infections Caused by Gram-Positive Bacteria, Karolinska Institutet, Stockholm, Sweden, 6/09.
- (59) Invited Seminar, Distinguished Speaker Series, Rocky Mountain Laboratories, NIH/NIAID, Hamilton, MT, 7/09.
- (60) Invited Seminar, Department of Medicine, National Jewish Health, Univ. of Colorado, Denver, CO, 11/09.
- (61) Annual Student Selected Speaker, Graduate Program in Immunobiology, University of Arizona, Tucson, AZ, 10/09.
- (62) Invited Speaker, 47<sup>th</sup> Infectious Diseases Society of America Annual Meeting, Philadelphia, PA, 10/09.
- (63) Invited Seminar, Institute of Biological Chemistry, Academia Sinica, Nankang, Taipei, Taiwan, 11/09.
- (64) Invited Seminar, Institute of Molecular Medicine, National Taiwan University, Taipei, Taiwan, 11/09.
- (65) Invited Seminar, Dept. of Microbiology & Molecular Genetics, University of Illinois, Urbana-Champaign, IL, 11/09.
- (66) Invited Seminar, Dept. of Microbiology & Immunology, Univ. of British Columbia, Vancouver, BC, Canada, 1/09.
- (67) Grand Rounds, Department of Pediatrics, Vanderbilt University, Nashville, TN, 1/10.
- (68) Grand Rounds, Department of Medicine, University of California, San Diego, San Diego, CA, 2/10.
- (69) Invited Seminar, Molecular Microbiology Seminar Series, UT– Southwestern Medical Center, Dallas TX, 2/10.
- (70) Invited Lecture, Gordon Research Conference on Acute Respiratory Infections, Ventura, CA, 3/10.
- (71) Invited Seminar, Department of Microbiology, New York University, New York, NY, 3/10.
- (72) Invited Seminar, Nationwide Children's Hospital & Ohio State University, Columbus, OH, 4/10.
- (73) Invited Lecture, American Asthma Foundation Annual Scientific Meeting, San Francisco, CA, 5/10.
- (74) Invited Seminar, Dept. of Microbiology, Tumor and Cell Biology, Karolinska Institutet, Stockholm, Sweden, 6/10.
- (75) Invited Seminar, Sanofi-Aventis TSU Infectious Diseases, Toulouse, France, 7/10.
- (76) Invited Seminar, Lund University, Lund, Sweden, 7/10.
- (77) Invited Lecture, International Symposium on Streptococcal and Staphylococcal Immunity, Bath, UK, 9/10.
- (78) Invited Lecture, UCSD/Taiwan Symposium on Frontier in Biosciences, La Jolla, CA, 9/10.
- (79) Distinguished Lecture in Life Sciences, Northwestern University, Chicago IL, 11/10.
- (80) Featured Speaker, 50<sup>th</sup> Anniversary of UCSD Celebration, School of Medicine Founder's Day, 11/10.
- (81) Invited Seminar, Department of Microbiology, University of Tennessee, Knoxville TN, 11/10.
- (82) Invited Seminar, The Saban Research Institute, Children's Hospital of Los Angeles, Los Angeles CA, 11/10.
- (83) Invited Seminar, Dept. of Molecular Microbiology, Washington Univ. School of Medicine, St. Louis MO, 12/10.
- (84) Invited Lecture, 4<sup>th</sup> Annual National Yang-Ming University-UCSD Joint Symposium, La Jolla, CA 12/10.
- (85) Grand Rounds, Department of Pediatrics, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, 2/11.
- (86) Invited Seminar, Dept. of Microbiology & Immunology, Wake Forest University, Winston-Salem, NC, 2/11.
- (87) Invited Lecture, Keystone Symposium: Drugs from Bugs: Anti-Inflammatory Drugs, Snowbird, UT, 4/11.
- (88) Invited Lecture, American Asthma Foundation Annual Scientific Meeting, San Francisco, CA, 5/11.
- (89) Invited Seminar, Centre d'Immunologie Marseille-Luminy, Marseille, France 6/11.
- (90) Invited Seminar, Institut Pasteur, Paris, France 7/11.
- (91) Invited Lecture, 7<sup>th</sup> Sino-U.S. Conference on Medicine in the 21<sup>st</sup> Century, Salk Institute, La Jolla, CA, 9/11.
- (92) Invited Lecture and Session Moderator, 2011 La Jolla Immunology Conference, Salk Institute, La Jolla, CA, 10/11.
- (93) Invited Seminar, Sanford-Burnham Research Institute Translational Research Forum, San Diego, CA, 11/11.
- (94) Invited Lecture, 75<sup>th</sup> Annual Meeting of the ASM Southern California Branch, La Jolla CA, 11/11.
- (95) Invited Lecture, Annual Conference of the Society for Glycobiology, Seattle, WA, 11/11.
- (96) Invited Seminar, Seattle Children's Research Institute and Seattle Children's Hospital, La Jolla CA, 11/11.
- (97) Invited Lecture, Annual Infection & Immunity Symposium, Utrecht University, Utrecht, Netherlands, 11/11.

- (98) Invited Seminar, La Jolla Institute of Allergy & Immunology Seminar Series, 1/12.
- (99) Invited Seminar, Department of Microbiology, University of Toronto, Toronto, ON, 1/12.
- (100) Invited Seminar, Reed College Department of Biology, Portland, OR, 3/12.
- (101) Invited Lecture, 20th Mexican Congress of Immunology, Merida, Mexico, 4/12
- (102) Featured Speaker, 4th Annual Dean's Symposium, UCSD School of Medicine, La Jolla, CA, 4/12
- (103) Invited Seminar, MedImmune Visiting Scientist Series, Gaithersburg, MD, 5/12
- (104) Invited Seminar, Department of Microbial Pathogenesis, Karolinska Institute, Stockholm, Sweden, 5/12.
- (105) Invited Lecture, 15<sup>th</sup> Annual San Diego MedChem Symposium, La Jolla, CA, 7/12.
- (106) Invited Lecture, UCSD – Rady Children's Hospital - St. Jude Children's Research Hospital Chemical Biology, Genomics and Pediatric Therapeutics Symposium, San Diego, CA, 9/12.
- (107) Invited Lecture and Session Chair, 52nd ICAAC, San Francisco, CA, 9/12.
- (108) Featured Speaker, "ICAAC Live", Scientific Webcast, 52nd ICAAC, San Francisco, CA, 10/12.
- (109) Invited Seminar, Max Planck Institute for Infection Biology, Berlin, Germany, 11/12.
- (110) Invited Seminar, Dept. Microbiology & Immunology, UT-San Antonio Health Sciences, San Antonio, TX, 11/12.
- (111) Invited Seminar, Dept. of Biological Sciences, CSU – Long Beach, Long Beach, CA, 12/12
- (112) Invited Seminar, Center for Genome Research & Biocomputing, Oregon State University, Corvallis, OR, 1/13.
- (113) Visiting Professor and Seminars, Niigata University Medical School, Niigata, Japan, 1/13.
- (114) Invited Seminar, Japanese National Institute of Infectious Diseases, Tokyo, Japan, 1/13.
- (115) Invited Seminar, Dept. of Microbiology & Immunology, University of Melbourne, Melbourne, Australia, 2/13.
- (116) Invited Lecture, 3rd Lorne Infection & Immunity Conference, Lorne, Victoria, Australia, 2/13.
- (117) Invited Lecture and Session Chair, Bio2013 International Convention, Chicago, IL, 4/13.
- (118) Invited Seminar, Broad Institute of MIT and Harvard, Infectious Diseases Program, Boston, MA, 4/13.
- (119) Medicine Grand Rounds, Univ. of Tennessee Health Sciences Center, Memphis, TN, 5/13.
- (120) Invited Seminar, J. Craig Venter Institute Seminar Series, San Diego, CA, 5/13.
- (121) Invited Lecture and Session Convener, American Society for Microbiology Annual Meeting, Denver, CO, 5/13.
- (122) Invited Lecture, HA 2013: International Society for Hyaluronan Sciences, Oklahoma City, OK, 6/13.
- (123) Invited Lecture, Gordon Conference on Staphylococcal Diseases, Waterville Valley, NH, 7/13.
- (124) Invited Seminar, Dept. of Immunology & Infectious Diseases, Montana State University, Bozeman MT, 9/13
- (125) Invited Speaker, The Microbiome/Microbiota R&D and Business Collaboration Forum, San Diego CA, 10/13.
- (126) Visiting Professor/Speaker, Dept. of Pediatric Grand Rounds, China Medical University, Taichung, Taiwan, 11/33.
- (127) Visiting Professor/Speaker, School of Pharmacy, China Medical University, Taichung, Taiwan, 11/13.
- (128) Visiting Professor/Speaker, College of Pharmacy, Taipei Medical University, Taipei, Taiwan, 11/13.
- (129) Visiting Professor/Speaker, Wang Fang Medical Center, Taipei Medical University, Taipei, Taiwan, 11/13.
- (130) Invited Seminar, Dept. of Microbiology & Molecular Genetics, University of California, Irvine, Irvine, CA, 12/13.
- (131) Invited Speaker and Conference Co-Chair, Japanese Society for Bacteriology Annual Meeting, Tokyo, Japan, 3/14.
- (132) Invited Speaker, Microbiome/Microbiota R&D and Business Collaboration Forum, London, England, 4/14.
- (133) Invited Speaker/Session Chair, NIH/Harvard/UCSD/Scripps Glycoimmunology Symposium, San Diego, CA, 6/14.
- (134) Invited Speaker, Novartis Vaccines, Siena, Italy, 7/14.
- (135) Session Chair, International Symposium on Staphylococci and Staphylococcal Infections, Chicago, IL, 8/14.
- (136) Invited Speaker, Infectious Diseases Society of America Annual Meeting, Philadelphia, PA, 9/14.
- (137) Invited Seminar, Dept. of Microbiology, National Taiwan University College of Medicine, Taipei, Taiwan, 10/14.
- (138) Medical Grand Rounds, Chang Gung Memorial Hospital, Taipei, Taiwan, 10/14
- (139) Invited Seminar, Taipei Medical University College of Pharmacy, Taipei, Taiwan, 10/14
- (140) Invited Speaker, The 15th IUBMB/24th FAOBMB-TSBMB Conference - Biochemistry and Molecular Biology in Transition: from Basic to Translational, Academia Sinica, Taipei, Taiwan, 10/14.
- (141) Invited Speaker, UCSF Microbial Pathogenesis Seminar Series, San Francisco, CA, 11/14.
- (142) Invited Speaker, Novartis Institutes for Biomedical Research (NIBR), Emeryville, CA, 11/14.
- (143) Invited Seminar, Department of Infectious Diseases/Discovery Biology, Merck Inc., Kenilworth, NJ, 12/14.
- (144) Invited Seminar, Department of Microbiology, University of North Carolina, Chapel Hill, NC, 1/15.
- (145) Invited Seminar, San Diego–Utrecht Life Sciences Collaboration Seminar, UMC-Utrecht, Netherlands, 4/15.
- (146) Invited Speaker, Gordon Conference on Antimicrobial Peptides, Il Ciocco, Italy, 5/15.
- (147) Invited Speaker and Session Chair, Federation of European Microbiology Societies (FEMS) Annual Meeting, Maastricht, Netherlands, 6/15.
- (148) Invited Speaker/Visiting Professor, Dept. of Medical Biology, Arctic University of Norway, Tromsø, Norway, 6/15.
- (149) Invited Speaker and Session Chair, Cold Spring Harbor Conference on Microbial Pathogenesis & Host Response, Cold Spring Harbor, NY, 9/15.
- (150) Invited Speaker, La Jolla Immunology Conference, Salk Institute, La Jolla, CA, 9/15
- (151) Invited Seminar, China Medical University, Taichung, Taiwan, 11/15
- (152) Invited Seminar, Discovery Park / Innovation House, Sandwich, Kent, UK, 12/15
- (153) Invited Seminar, Frontiers in Pediatric Research Seminar Series, University of Iowa, Iowa City, Iowa, 12/15

- (154) Invited Speaker, “Host-Pathogen Interactions: Circuits to Systems” Symposium, Sanford Consortium for Regenerative Medicine, La Jolla, CA, 1/16
- (155) Invited Seminar, Instituto de Biotecnología, Universidad Nacional Autónoma de México, Cuernavaca, Mexico, 1/16
- (156) Invited Seminar, Department of Pediatrics, Oregon Health & Sciences University, Portland, OR, 1/16
- (157) Invited Seminar, Department of Microbiology & Immunology, University of Texas School of Medicine, UT Health Science Center at San Antonio, TX, 3/16
- (158) Invited Speaker, 31st Infectious Diseases Association of California Spring Symposium, Costa Mesa, CA, 4/16
- (159) Medical Grand Rounds Speaker, Cedars-Sinai Medical Center, Los Angeles, CA, 5/16
- (160) Invited Seminar, Dept. of Cellular Microbiology, Max Planck Institute for Infection Biology, Berlin, Germany, 7/16
- (161) Session Chair, 16<sup>th</sup> International Symposium on Staphylococci and Staphylococcal Infections (ISSSI), Seoul, South Korea, 9/16
- (162) Invited Seminar, Department of Basic Sciences, University of North Dakota, Grand Forks, ND, 12/16
- (163) Invited Seminar, University of Connecticut Department of Immunology, Storrs, CT, 1/17
- (164) Session Chair, Gordon Conference on Antimicrobial Peptides, Ventura, CA, 3/17
- (165) Invited Speaker, Gordon Conference on Glycobiology, Ventura, CA, 3/17
- (166) Invited Speaker, Ragon Institute of MGH, MIT, and Harvard special symposium on the role of the physician-scientist in the evolving landscape of biomedical research, Cambridge, MA, 4/27
- (167) Invited Speaker, Department of Medicine/Huddinge, Karolinska Institutet, Stockholm, Sweden, 5/17
- (168) Invited Seminar, University of Washington Department of Microbiology, Seattle, WA, 5/17
- (169) Invited Speaker, BIO 2017 International Convention, San Diego, CA 6/17
- (170) Invited Seminar, Children’s Hospital Seattle Research Institute, Seattle, WA 6/17
- (171) Invited Seminar, Department of Medical Sciences, UiT – The Arctic University of Norway, Tromsø, Norway, 7/17
- (172) International Invited Speaker, “Development of Tissue- and Pathogen-specific Cellular Innate Immunity”, Freiberg, Germany, 9/17
- (173) Invited Speaker, 12<sup>th</sup> Annual Peptide Therapeutics Symposium, Salk Institute, La Jolla, CA, 10/17
- (174) International Invited Speaker, Special Symposium: “Neutrophil Extracellular Traps”, Max Planck Institute for Infection Biology, Berlin, Germany, 11/17
- (175) Distinguished Lecturer Seminar Series, The Institute of Biosciences & Technology (IBT) in Houston/ Texas A&M Medical Center, Houston, TX, 12/17
- (176) Visiting Seminar Speaker, New York University Department of Microbiology, New York, NY, 1/18
- (177) Invited Speaker, Methods Development and Standardization Working Group, Clinical and Laboratory Standards Institute (CLSI), Dallas, TX, 1/18
- (178) Invited Speaker, Cellular and Molecular Genetics, Host-Pathogen Interactions: Mechanism, Medicine, and Meaning, UC San Diego Division of Biology, La Jolla, CA, 1/18
- (179) Visiting Speaker, Fourth N-RENNT Symposium on Neuroinfectiology, University of Hannover, Germany, 2/18
- (180) Invited Speaker, Pediatrics Assembly, American Thoracic Society Annual Meeting, San Diego, CA, 5/18
- (181) Invited Speaker, 8th International Meeting on Antimicrobial Peptides (IMAP 2018), Edinburgh, Scotland, UK, 9/18
- (182) Invited Seminar, University of Pennsylvania Microbiology Seminar series, Philadelphia, PA, 10/18

## LABORATORY TRAINEES

### POSTDOCTORAL FELLOWS MENTORED

#### Former Postdoctoral Fellows (in chronological order)

1. **Kelly Doran, PhD** (Postdoctoral Fellow via UCSD Biological Sciences) 1999-2007  
 Recipient of Burroughs-Wellcome Career Award in the Biomedical Sciences (2000)  
 Current Position: Professor of Biology, San Diego State University, San Diego, CA
2. **Deepali Kumar, MD** (Infectious Diseases Fellow via University of Ottawa) 1999-2000  
 Current Position: Assistant Professor of Medicine/Infectious Diseases, University of Alberta, Edmonton, Canada
3. **Xavier Lauth, PhD** (Postdoctoral Fellow via Université Louis Pasteur Strasbourg) 2000-2003  
 Current Position: Staff Scientist, Center for Aquaculture Technologies, San Diego, CA.
4. **Arthur Jeng, MD** (Infectious Diseases Fellow via UCSD) 2001-2003  
 Current Position: Asst. Clinical Professor of Medicine/Infectious Diseases, Olive View/UCLA Medical Center,
5. **George Liu MD, PhD** (Pediatric Infectious Disease Fellow via UCSD and Cambridge) 2001-2006  
 Recipient of HHMI Postdoctoral Fellowship (2002)  
 Recipient of Burroughs-Wellcome Career Award in the Biomedical Sciences (2004)  
 Current Position: Associate Professor of Pediatrics, Cedars-Sinai Medical Center and UCLA, Los Angeles, CA
6. **John Buchanan, PhD** (Postdoctoral Fellow via Louisiana State University), 2002-2007

- Current Position: Chief Executive Officer, Center for Aquaculture Technologies, San Diego, CA
7. **Sascha Kristian, PhD** (Postdoctoral Fellow via Tübingen University, Germany) 2003-2007  
Current Position: Associate Research Director, Altermune Technologies, La Jolla, CA.
  8. **Carole Peyssonnaud, PhD** (Postdoctoral Fellow via Institut Curie, Paris) 2004-2006  
Current Position: Faculty Member and INSERM Investigator, Institut Cochin, Paris, France.
  9. **Mary Hensler, PhD** (Postdoctoral Fellow via Wake Forest University and Biotechnology Industry) 2003 – 2008  
Current Position: Retired after 6 years as Project Scientist, Nizet Lab, UCSD School of Medicine
  10. **Fabiano Pinheiro Da Silva, MD, PhD** (Postdoctoral Fellow via Univ. of Sao Paolo/Univ. of Paris VI) 2007 – 2009  
Recipient of a CAPES Fellowship from the Brazilian Ministry of Sciences  
Current Position: Faculdade de Medicina, University of Sao Paolo, Brazil.
  11. **Amanda Lewis, PhD** (Postdoctoral Fellow via UCSD Biological Sciences) 2006-2009  
Recipient of Giannini Family Foundation Postdoctoral Fellowship (2006)  
Recipient of the University of California President's Postdoctoral Fellowship (2007)  
Current Position: Assistant Professor, Department of Molecular Biology, Washington University, St. Louis, MO
  12. **Shauna McGillivray, PhD** (Postdoctoral Fellow via UCSD Biomedical Sciences) 2006-2009  
Recipient of IRACDA Fellowship (2006)  
Recipient of Hartwell Foundation Postdoctoral Scholar Award (2009)  
Current Position: Assistant Professor, Department of Biology, Texas Christian University, Fort Worth, TX
  13. **Suzan Rooijackers, Ph.D.** (Postdoctoral Fellow, via University of Utrecht, Netherlands) 2008-2009  
Recipient of an EMBO Long-Term Postdoctoral Fellowship (2008)  
Current Position: Associate Professor, Medical Microbiology, Utrecht University Medical Center, Netherlands
  14. **Satoshi Uchiyama, MD, PhD** (Postdoctoral Fellow via Niigata University, Japan) 2006-2010  
Recipient of YKK Group Fellowship (Japan), Marie Curie Fellowship (Germany)  
Current Position: Assistant Project Scientist, Nizet Lab
  15. **Maren von Köckritz-Blickwede, PhD** (Postdoctoral Fellow via Neustadt-Mariensee Univ., Germany) 2008-2010.  
Recipient of Deutsche Akademie der Naturforscher Leopoldina Fellowship (2008).  
Current Position: Associate Professor, University of Veterinary Medicine, Hannover, Germany
  16. **Laura Crotty-Alexander, MD** (Pulmonary/Critical Care Fellow via Harvard University) 2008-2012  
Recipient of a Hartwell Foundation Postdoctoral Fellowship (2009)  
Current Position: Assistant Professor, UCSD Department of Medicine, Pulmonary and Critical Care Division
  17. **Anjali Timmer, PhD** (Postdoctoral Fellow via UCSD Molecular Pathology) 2008 – 2011.  
Recipient of Giannini Family Foundation Postdoctoral Fellowship (2008)  
Current Position: Scientist, Tanabe Research Laboratories, San Diego
  18. **Nina Van Sorge, PharmD, PhD** (Postdoctoral Fellow via University of Utrecht, Netherlands) 2007-present  
Recipient of a CDC Antibiotic Resistance Program Fellowship, UCSD Immunology NIH Fellowship  
Current Position: Associate Professor, Medical Microbiology, Utrecht University Medicine Center, Netherlands
  19. **Markus Roupé, PhD** (Postdoctoral Fellow via Lund University, Sweden), 2010-2012  
Recipient of a Wenner-Gren Foundation Fellowship  
Current Position: Research Group Leader/Principal Investigator, Lund University
  20. **Cheryl Okumura, PhD** (Postdoctoral Fellow via UCLA Biomedical Sciences) 2008-2012  
Recipient of IRACDA Fellowship (2009)  
Current Position: Assistant Professor of Biology, Occidental College
  21. **Kathryn Akong-Moore, MD, PhD** (Pediatric Pulmonology Fellow via University of North Carolina MSTP) 2010-12  
Current Position: Assistant Professor of Pediatrics/Pulmonary Medicine, UCSD  
Recipient of a UCSD CTRI K-2 Award under mentorship in the Nizet Lab
  22. **Syed Raza Ali, PhD** (Postdoctoral Fellow via University of Hannover), 2011-2012, Project Scientist 2012-2016  
Current Position: Immunology Senior Scientist and Team Leader, NanTkwest, San Diego, CA
  23. **Yung-Chi Chang, PhD** (Postdoctoral Fellow via National Yang-Ming University, Taiwan) 2007 – 2012  
Current Position: Assistant Professor of Microbiology, National Taiwan University, Taipei, Taiwan
  24. **Jason Cole, PhD** (Postdoctoral Fellow via University of Wollongong, Australia) 2008 – 2012  
Recipient of a C.J. Martin Overseas Biomedical Research Fellowship, then Visiting Project Scientist 2012-2015  
Current Position: Research Scientist, Cidara Therapeutics, San Diego, CA
  25. **Masaya Yamaguchi, DDS, PhD** (Postdoctoral Fellow via Osaka University, Japan), 2011-2014  
Recipient of a Japanese Science Foundation Fellowship  
Current Position: Assistant Professor, Osaka University School of Dental Medicine
  26. **Yuka Yamaguchi, DDS, PhD** (Postdoctoral Fellow via Osaka University, Japan), 2011-2014  
Current Position: Clinical Faculty in Pediatric Dentistry, Osaka University School of Dental Medicine
  27. **Andrew Hollands, PhD** (Postdoctoral Fellow via University of Wollongong, Australia) 2010-2014  
Recipient of a C.J. Martin Overseas Biomedical Research Fellowship



- Current Position: Research Investigator at InhibRx, San Diego, CA
28. **Ismael Secundino-Velasquez, PhD** (Postdoctoral Fellow via UNAM, Cuernavaca, Mexico), 2009-2014  
Recipient of the UC-Mexus Fellowship  
Current Position: Assistant Professor of Biotechnology, UNAM, Cuernavaca, Mexico
  29. **Federico Beasley, PhD** (Postdoctoral Fellow via University of Western Ontario, Canada), 2011-2014  
Current Position: Postdoctoral Scientist, California Institute for Biomedical Research (Calibr), San Diego, CA
  30. **Ross Corriden, PhD** (Postdoctoral Fellow via UCSD and University of Nottingham, 2012- 2014)  
Current Position: Assistant Project Scientist, UCSD Department of Pharmacology
  31. **David Gonzalez, PhD** (Postdoctoral Fellow via UCSD Chemistry & Biochemistry Program), 2011-present  
Recipient of an A.P. Giannini Postdoctoral Fellowship and U.C. President's Postdoctoral Fellowship  
Current Position: Assistant Professor of Pharmacology, UCSD School of Medicine
  32. **Ericka Anderson, PhD** (Postdoctoral Fellow via Massachusetts Institute of Technology), 2011-2015  
Recipient of UNC-Merk Postdoctoral Fellowship and NIH Diversity Fellowship  
Current Position: Staff Scientist, Human Longevity, Inc., San Diego, CA
  33. **Ann Lin, PhD** (Postdoctoral Fellow via Simon Fraser University, Vancouver, BC, Canada) 2012-2015  
Recipient of a Canadian Institute for Health Research Postdoctoral Fellowship  
Current Position: Staff Scientist, BPS Bioscience, San Diego, CA
  34. **Bernice Aguilar, PhD** (Postdoctoral Fellow via University of Southern California), 2012-2015  
Recipient of IRACDA Fellowship (2012-2015)  
Current Position: Postdoctoral Scholar, Cedars-Sinai Medical Center, Los Angeles
  35. **Anna Henningham, PhD** (Postdoctoral Fellow via University of Queensland, Australia) 2013-2016  
Current Position: Research Scientist, Child Health Research Center, University of Queensland, Brisbane, Australia
  36. **Kim-Thuy Truong, MD** (UCSD Pulmonary-Critical Care Medicine Fellowship) 2015-2016  
Current Position: Pulmonary/Critical Care Physician, Tacoma, WA
  37. **Fatemeh Askarian, PhD** Postdoctoral Fellow via The Arctic University of Norway, Tromsø, Norway), 2016-2017  
Current Position: Postdoctoral Scholar, The Arctic University of Norway, Tromsø, Norway
  38. **Chih-Ming Tsai, PhD** (Postdoctoral Fellow via Academia Sinica, Taiwan) 2014-2017  
Current Position: Postdoctoral Scholar, Cedars-Sinai Medical Center, Los Angeles
  39. **Armin Kousha, PhD** (Postdoctoral Fellow via The Arctic University of Norway, Tromsø, Norway), 2016-present  
Current Position: Postdoctoral Scholar, The Arctic University of Norway, Tromsø, Norway.
  40. **Monika Kumaraswamy, MD** (UCSD Infectious Diseases Fellowship via Case Western Residency) 2013-2016.  
Current Position: UCSD Infectious Diseases Faculty, Director of Infection Control, VA Medical Center San Diego
  41. **Stephanie Shin, MD** (UCSD Pulmonary-Critical Care Medicine Fellowship via GWU Residency) 2016-2017  
Current Position: Intensive Care Unit Physician, Sharp Healthcare System, San Diego
  41. **Doris LaRock, PhD** (Postdoctoral Fellow via University of Washington) 2014-2017  
Current Position: Staff Scientist, Emory University School of Medicine
  42. **Christopher LaRock, PhD** (Postdoctoral Fellow via University of Washington) 2013-2017  
Recipient of an A.P. Giannini Postdoctoral Fellowship (2013-2016)  
Current Position: Assistant Professor of Microbiology and Immunology, Emory University, Atlanta, GA

#### Current Postdoctoral Fellows (in alphabetical order)

- Stephanie Brandt, PhD** (Postdoctoral Fellow via University of Indiana/Vanderbilt U.), 2017-present
- Sarah Burgdorf, MD, PhD** (Infectious Diseases Fellow via UCSD MSTP and Residency), 2017-present
- Alison Coady, PhD** (Postdoctoral Fellow via University of California, San Francisco Biomedical Sciences), 2015-present  
Recipient of an A.P. Giannini Postdoctoral Fellowship (2016-present)
- Ingrid Cornax, DVM, PhD** (Postdoctoral Fellow via UC Davis Veterinary School, LSU Residency, UMinn Veterinary Pathology Fellowship), 2017-present
- Nicholas Dillon, PhD** (Postdoctoral Fellow via University of Minnesota), 2017-present
- Bryan Hancock, PhD** (Postdoctoral Fellow via San Diego State University), 2017-present
- Jaqueline Kimmey, PhD** (Postdoctoral Fellow via Washington University, St. Louis), 2016-present  
Recipient of UC President's Postdoctoral Fellowship (2017-present)
- Janet Liu, PhD** (Postdoctoral Fellow via University of California Irvine) 2014-present
- Katy Patras, PhD** (Postdoctoral Fellow via SDSU/UCSD Joint Biology Program), 2015-present  
Recipient of a UC Chancellor's Postdoctoral Fellowship (2016-present)
- Angelica Riestra, PhD** (Postdoctoral Fellow via University of California, Los Angeles Biomedical Sciences)  
Recipient of IRACDA Fellowship (2012-2015)  
Recipient of UC President's Postdoctoral Fellowship (2017-present)

**Ruth Siew, MD** (UCSD Pediatric Pulmonary Medicine Fellowship Program via UCSD Residency) 2017-present  
 Recipient of the UCSD NICHD/T32 Fellowship in Pediatric Clinical Pharmacology

**Erlinda (Chulie) Ulloa, PhD** (Children's Hosp. of Philadelphia Pediatric Infectious Diseases Program) 2017-present  
 Recipient of Pediatric Scientist Training Program Fellowship

**J. Andrés Valderrama, PhD** (Postdoctoral Fellow via University Complutense of Madrid) 2016-present

## GRADUATE STUDENTS MENTORED

### PhD Degree Conferred (Primary Advisor):

1. **Vivekanand Datta, MD, PhD** UCSD Molecular Pathology (1999-2005)  
Thesis title: "The genetic basis of streptolysin S ( $\beta$ -hemolysin) production in group A *Streptococcus* and its role as virulence factor in invasive infection"  
 Current Position: Research Pathologist, National Institutes of Health
2. **Laura Kwinn, PhD** UCSD Biological Sciences (2001-2006)  
Thesis title: "New virulence factors of the invasive human pathogen Group A *Streptococcus*"  
 Recipient of UC President's Doctoral Year Fellowship  
 Current Position: Assistant Branch Manager for Biosecurity, Department of Health and Human Services
3. **Aaron Carlin, MD, PhD** UCSD Medical Scientist Training Program/Biomedical Sciences (2003-2007)  
Thesis title: "Siglec interactions with a sialylated bacterial pathogen"  
 Current Position: Infectious Diseases Fellow, UCSD Medical Center
4. **Heather Maisey Buschman, PhD** UCSD Molecular Pathology (2003 – 2008)  
Thesis title: "Novel roles for surface pili in streptococcal pathogenesis"  
 Recipient of a National Science Foundation Predoctoral Fellowship  
 Current Position: Scientific Communications, UCSD Health Sciences
5. **Anjali Minocha Timmer, PhD** UCSD Molecular Pathology (2004 – 2008)  
Thesis title: "Virulence mechanisms of group A *Streptococcus*"  
 Recipient of an A.P. Giannini Postdoctoral Fellowship for Medical Research  
 Current Position: Scientist at Tanabe Research Laboratories, San Diego, USA
6. **Jeffrey Locke, PhD** UCSD and Scripps Institution of Oceanography Marine Biology (2005 – 2008)  
Thesis title: "Characterization of virulence factors in the aquatic pathogen *Streptococcus iniae*"  
 Current Position: Director of Microbiology at Cidara Therapeutics, San Diego CA
7. **Annelies Zinkernagel, MD, PhD** SBMRI Molecular Medicine Program (2005 – 2008)  
Thesis title: "Exploring Bacterial Pathogen Interactions with Host Phagocytes to Identify Novel Approaches to Infectious Disease Therapy"  
 Recipient of Swiss National Science Foundation Fellowship (2005-2008)  
 Current Position: Assistant Professor, Department of Medicine, University of Zurich, Switzerland
8. **Shannon Weiman, PhD** UCSD Biomedical Sciences Graduate Program (2007 – 2009)  
Thesis title: "Sialic acid *O*-Acetylation in group B *Streptococcus*: Impact on pathogen-host interactions"  
 Current Position: Scientific Writer, San Francisco Bay Area
9. **Ohn Chow, PhD, MD** UCSD Biomedical Sciences Graduate Program (2006 - 2010)  
Thesis title: "The effects of statin therapy on innate immune clearance of bacteria"  
 Current Position: Internal Medicine Resident, Beth Israel-Deaconess Hospital, Harvard University, Boston
10. **Nina Haste, PharmD, PhD** UCSD PharmD/PhD Program, Biomedical Sciences (2008-2011)  
Thesis title: "A battle with superbugs: New compounds and targets against drug-resistant pathogens"  
 Current Position: UCSD Pharmacy Residency with Infectious Diseases Specialization
11. **Morgan Pence, PhD** Biomedical Sciences PhD Program (Thesis Advisor) (2007-2012)  
Thesis title: "Molecular genetic analysis of bacterial antimicrobial peptide resistance phenotypes"  
 Current Position: Director of Clinical Microbiology, Cook Children's Hospital, Fort Worth, TX
12. **Tamara Bhandari, PhD** Biomedical Sciences PhD Program (Thesis Advisor) 2009-2013  
 Thesis Title: "The role of hypoxia-inducible factor in the immune response to infection"  
 Current Position: Scientific Communications Director, Washington University, St. Louis
13. **Leo Lin, PhD**, UCSD Medical Scientist Training Program/Biomedical Sciences (Thesis Advisor) 2012-2016  
 Thesis Title: "Exploring antibiotic and innate immune synergies to treat multi-drug resistant bacterial infections"  
 Current Position: Finishing MD curriculum at UCSD
14. **Simon Döhrmann, PhD**, Humboldt University Berlin, PhD Program (Thesis Advisor) 2013-2015  
 Thesis Title: "Molecular Interactions of Group A *Streptococcus* with Host Neutrophil Defenses"  
 Subsequently conducted Postdoctoral Training in Nizet Lab  
 Current Position: Scientist, Cidara Therapeutics, San Diego

15. **Jason Munguia, PhD**, Biomedical Sciences PhD Program (Thesis Advisor) 2012-2016  
 Thesis Title: "New Approaches to Sensitize Multidrug- Resistant Gram-Negative Bacterial Pathogens to Host Innate Immune Clearance"  
 Subsequently conducted Postdoctoral Training in Nizet Lab  
 Current Position: Scientist, Forge Therapeutics, San Diego

#### PhD Degree Conferred (Co-Advisor):

16. **Amanda Lewis, PhD**, UCSD Biological Sciences Program (2001-2006, Co-Research Advisor w/ Ajit Varki)  
Thesis title: "Discovery, characterization and pathologic relevance of sialic acid O-acetylation in group B *Streptococcus*".  
 Winner of the Kamen Prize for best thesis in Chemistry or Biology  
 Current Position: Assistant Professor of Medical Microbiology, Washington University, St. Louis
17. **Case McNamara, PhD**, UCSD Chemistry & Biochemistry (2000-2006, Co-Research Advisor w/ Partho Ghosh)  
Thesis title: "Molecular analysis of *Streptococcus pyogenes* M1 protein"  
 Current Position: Infectious Diseases Fellow, Genome Research Foundation of Novartis
18. **Andrew Hollands, PhD**, University of Wollongong Biological Sciences (co-advisor w/ Mark Walker) (2007-2009)  
Thesis title: "Mechanisms of group A streptococcal invasive infection"  
 Current Position: C.J. Martin Overseas Postdoctoral Fellowship, Nizet Lab
19. **Anna Cogen Aplin, PhD**, UCSD Bioengineering PhD Program (co-advisor w/ Richard Gallo) (2006 – 2009)  
Thesis title: "The role of *Staphylococcus epidermidis* in cutaneous defense"  
 Current Position: Medical Student at UCSF
20. **Chelsea Stewart, PhD**, UCSD Chemistry & Biochemistry (2011-2016, Co-Research Advisor w/ Partho Ghosh)  
Thesis title: "The M1-Fg interaction and its contributions to the pathogenesis of group A *Streptococcus*"  
 Current Position: Biology Teacher, the Harvard-Westlake School, Los Angeles

#### M.S. Degree Conferred:

1. **Jennifer Chang, PhD** UCSD Biological Sciences Integrated BS/MS (1998-2000)  
Thesis title: "The group B streptococcal  $\beta$ -hemolysin: genetic basis, cytolytic activity and role in cytokine induction"  
 Current Position: Postdoctoral Fellow, Loyola University-Chicago
2. **Carlo Milani, MS** UCSD Biological Sciences Integrated BS/MS (2005-2007)  
Thesis title: "Role of a novel deacetylase homolog (Pdi) in virulence of the aquatic pathogen *Streptococcus iniae*"  
 Current Position: MD/MBA student, Tulane University
3. **Katja Branitzki-Heinemann, MS** Helmholtz International Graduate School for Infection Research (2009)  
Thesis title: "HIF-1 $\alpha$ -mediated antimicrobial activity of mast cells against Gram-positive pathogens"  
 Current Position: PhD candidate, Helmholtz International Graduate School for Infection Research
4. **Jonathan Sjögren, MS** Lund University School of Biotechnology (2010), research component at UCSD  
Thesis title: "Evaluation of the contribution to virulence of EndoS, an endoglycosidase from *Streptococcus pyogenes*"  
 Current Position: PhD candidate, Helmholtz International Graduate School for Infection Research
5. **Evelien Berends, MS** Utrecht University Graduate School of Life Sciences (2010), research component at UCSD  
Thesis title: "Pathogen versus host innate immune defence: *Staphylococcus aureus* versus NETs"  
 Current Position: PhD candidate, Utrecht University Graduate School of Life Sciences
6. **Simon Döhrmann, MS** Helmholtz International Graduate School for Infection Research (2011-12, Research Advisor)  
 Thesis Title: Analysis of MIT1 group A streptococcal virulence factors  
 Current Position: PhD training program, Humbolt University, Berlin, Germany
7. **Kirsten Kuipers, MS** Utrecht University Graduate School of Life Sciences (2011-12), research component at UCSD  
 Thesis Title: Role of the group A carbohydrate antigen and M protein in phagocyte and serum resistance  
 Current Position: To enter PhD training program
8. **Emma Leire, MS** University of Copenhagen Pharmaceutical Sciences Program (2011-12), research at UCSD  
 Thesis Title: Role of HIF-1 in regulating neutrophil recruitment to inflamed skin tissues  
 Current Position: NanoFar PhD Program in Spain and England
9. **Shari Nicatia, MS** Utrecht University Graduate School of Pharmaceutical Sciences (2011-2012), research at UCSD  
 Thesis Title: Role of HIF-1 in regulating eosinophil migration and activation (co-mentor w/ Laura Crotty-Alexander)  
 Current Position: Completing Pharmacy Degree
10. **Johnny Hojoon Hwang, MS** UCSD Biological Sciences Integrated BS/MS Program (Thesis Advisor) 2011-2013  
 Thesis Title: Adaptamers: A novel approach to antibacterial therapy  
 Current Position: Research technician, Crotty-Alexander Lab, San Diego VA Medical Center
11. **Ran Troost, MS** University of Nijmegen, Netherlands Master's Program (Research Advisor) 2013-2014  
 Thesis Title: The interaction between the Ashwell receptor and bacteria

12. **Gabriela Gysler, MS** University of Basel School of Pharmacy Master's (Research Advisor) 2013-2014  
Thesis Title: Anacardic acid from cashew nuts boosts neutrophil extracellular traps and bacterial killing
13. **Carien Hilvering, MS**, Utrecht University (Netherlands) MS Program (Research Advisor) 2014  
Thesis Title: Role of the cell wall carbohydrate antigen in group A and C streptococcal pathogenesis
14. **Brittney Miller, MS** UCSD Biomedical Sciences Graduate Program (Thesis Advisor) 2013 – 2014  
Research Topic: HIF as a pharmacological target for boosting phagocyte function
15. **Laura Robrahn, MS** Ruhr University, Germany, Masters Program (Research Advisor) 2014-2015  
Research Topic: Interaction of HIF and autophagy in macrophage intracellular killing
16. **Roxanna Flores, MS** SDSU-UCSD Biological Sciences MS Program (Thesis Advisor) 2014-2016  
Research Topic: Novel therapeutic antibody platform vs. *Pseudomonas aeruginosa*
17. **Thomas Sentner, MS**, Leiden University, Netherlands, MS Program (Research Advisor) 2016  
Research Topic: Role of HIF in regulating innate immunity to neonatal pathogens
18. **Diede van Ens, MS**, Radboud University, Nijmegen, Netherlands MS Program (Research Advisor), 2017  
Research Topic: Innate immune responses to streptococcal pathogens

#### GRADUATE STUDENTS CURRENTLY IN TRAINING (Alphabetical order)

**Tamara Escajadillo**, UCSD Biomedical Sciences Graduate Program (Thesis Advisor) 2015-present  
**Joshua Sun**, UCSD PharmD/PhD Program, Biomedical Sciences (Thesis Advisor) 2012-present  
**Nina Gao**, UCSD Biomedical Sciences Graduate Program (Thesis Advisor) 2016-present  
**Alison Vrbnac**, UCSD Biomedical Sciences Graduate Program (Thesis co-Advisor, w/ Rob Knight) 2016-present  
**Gregory Golden**, UCSD Biomedical Sciences Graduate Program (Thesis co-Advisor, w/ Jeff Esko) 2016-present

#### VISITING GRADUATE STUDENTS FROM FOREIGN INSTITUTIONS

**Jeffrey Fuller, PhD** Visting PhD Student, University Toronto, Canada, 2000  
**Revital Neeman, PhD** Visting PhD Student, Tel Aviv University, Israel, 2000  
**Lisa Chau, MS** Visiting Master's Student, University of Guam, 2007  
**Silva Amelung, PhD** Visiting PhD Student, Helmholtz Institute, Braunschweig, Germany, 2009  
**Masaya Yamaguchi, DDS, PhD** Visitnig PhD Student, Osaka University, Japan 2009  
**Stefanie Blodkamp, MS** Visiting PhD Student, University of Hannover, Germany, 2012  
**Anna Salvioni, PharmD** Visiting PharmD Student, University of Padova, Italy, 2012  
**Lena Völlger, PhD** Visiting PhD Student, University of Hannover PhD Program, 2012-2013  
**Nadia Keller**, Visiting PhD Student, University of Zurich PhD Program (co-Research Advisor) 2013-14  
**Jessica Tacke, MS** Visiting Master's Student, Braunchweig Technical University, Germany, 2015  
**Natascha Heinsohn**, Visiting Master's Student, Braunchweig Technical University, Germany, 2015  
**Safoora Pashangeh**, Visiting PhD Student, Shiraz University, Iran, 2015-16  
**Lucy Catteau**, Visiting PhD Student, University of Louvain, Belgium, 2016  
**Kristina Schall**, Visting Master's Student, Humboldt University, Germany, 2016  
**Nitasha Menon**, Visting Master's Student, Amrita School of Biotechnology, Kerala, India, 2017  
**Suborna Jati**, Visiting PhD Student, University of Calcutta, India, 2017  
**Marine Richard**, Visiting Master's Student, Bioengineering Program, University of Angers, France, 2017  
**Laura Hobohm**, Visiting Master's Student, University of Hannover, Germany, 2017

#### UCSD GRADUATE STUDENT ROTATIONS

(Alphabetical order) **Celeste Allaband** (Biomedical Sciences 2018) **Afsheen Banisadr** (Biomedical Sciences 2015), **Adam Best** (Biomedical Sciences 2007), **Andrew Borkowski** (Biomedical Sciences 2008), **Taylor Bright** (Biomedical Sciences 2008), **Angeline Chen** (Biomedical Sciences 2017), **Joyce Chen** (MSTP 2012), **Minh-ha Do** (Biomedical Sciences 2003), **Sophia Española** (Biomedical Sciences 2013), **Anthony Essex** (Biomedical Sciences 2004), **Bethany Fixsen** (MSTP 2016), **Jane Klann** (Biomedical Sciences 2013), **Charlie Larson** (Biomedical Sciences 2013), **Sean Lund** (Biomedical Sciences 2015), **Hafid Mantilla** (MSTP 2004), **George Hightower** (MSTP 2005), **Jason Lehmann** (Biomedical Sciences 2010), **Jorge Munera** (Molecular Pathology 2005), **Stosh Ozog** (MSTP 2014), **Saugat Poudel** (Biomedical Sciences 2016), **Marie Reichert** (Biomedical Sciences 2006), **Tania Riveros** (Biomedical Sciences 2009); **James Sanford** (Biomedical Sciences 2012), **Hiruy Sibhatu** (Biomedical Sciences 2011), **Eveline Sun** (Biomedical Sciences 2007), **Robert Thomas** (MSTP 2008), **Karen Tuomaneng** (Biomedical Sciences 2009), **Dawn Zhang** (MSTP 2008)

#### UCSD GRADUATE THESIS COMMITTEES

Degree Completed (Chronological order):

**Wayne Hsu, MS** (Biological Sciences 2005, Raffi Aroian Lab); **Case McNamara, PhD** (Chemistry/Biochemistry 2006, Partho Ghosh Lab); **Julie Robidart, PhD** (Marine Biology 2006, Horst Felbeck Lab); **Danielle Huffman, PhD** (Biological Sciences 2006, Raffi Aroian Lab); **Mary Lewinski, MD, PhD** (MSTP/BMS 2005, Frederic Bushman Lab); **Nancy Hurtado-Ziola, PhD** (Biomedical Sciences 2006, Ajit Varki Lab); **Nicole Turkson, PhD** (Marine Chemistry 2006, William Fenical Lab); **Aikomari Guzman-Martinez, PhD** (Chemistry/Biochemistry, 2007, Michael Van Nieuwenhze Lab), **Ryan Mueller, PhD** (Marine Biology 2007, Douglas Bartlett Lab), **Samuel Melendez-Lopez, PhD** (Molecular Pathology 2007, Sharon Reed Lab), **Abby Cooper, MS** (Biological Sciences 2007, Ethan Bier Lab), **Patrick Gutschow, MS** (Biological Sciences 2007, David Traver Lab); **Melanie Kho, MS** (Biological Sciences 2007, Raffi Aroian Lab); **Alexandra Kharazi, MS** (Biological Sciences 2008, Ethan Bier Lab); **Ross Corriden, PhD** (Biomedical Sciences 2008, Paul Insel Lab), **Meng-Yun (Sandy) Chou, PhD** (Biomedical Sciences 2009, Joseph Witztum Lab), **John Timmer, PhD** (Molecular Pathology 2009, Co-Chair, Guy Salvesson Lab), **Jessica Ricaldi, MD, PhD** (Molecular Pathology 2009, Joseph Vinetz Lab), **Robert Downen, PhD** (Biomedical Sciences 2009, Jack Dixon Lab), **Viengnguen Bounkeua, PhD** (MSTP/Biomedical Sciences 2009, Joseph Vinetz Lab), **Lauge Farnaes, PhD** (MSTP/Marine Chemistry 2009, William Fenical Lab), **Jacob Durrant, PhD** (MSTP/Biomedical Sciences 2010, J. Andrew McCammon Lab), **Wendy Huang, PhD** (Biomedical Sciences 2010, Christopher Glass Lab), **Rachel Taylor, PhD** (Biomedical Sciences 2010, Ajit Varki Lab), **Patricia Ryan, PhD** (Biological Sciences 2009, John Young Lab), **Robert Johnston, PhD** (Biomedical Sciences 2010, Shane Crotty Lab) **David Gonzalez, PhD** (Chemistry/Biochemistry 2011, Dorrestein Lab), **Tristand Carland, PhD** (Marine Biology 2011, Lena Gerwick Lab) **Celia Ebrahimi, PhD** (SDSU/UCSD Joint Biology 2011, Kelly Doran Lab), **Alicia Gamez, PhD** (Chemistry & Biochemistry 2011, Partho Ghosh Lab), **Andrew Markley, PhD** (Chemistry & Biochemistry 2011, Jack Dixon Lab), **Rebecca Saenz, PhD** (Biomedical Sciences/MSTP 2011, Sadik Esener Lab), **Amanda Opaluch, PhD** (Molecular Pathology 2011, Sumit Chanda Lab); **Laura Ruff, PhD** (Biomedical Sciences 2012, Stephen Hedrick Lab), **Navin Mahadevan, PhD** (Biomedical Sciences/MSTP 2012, Maurizio Zanetti Lab), **George Hightower, PhD** (MSTP/Biomedical Sciences 2012, Douglas Richman Lab), **Marika Orlov, PhD** (MSTP/Biomedical Sciences 2012, Robert Schooley Lab), **Dan MacLeod, PhD** (Molecular Pathology 2012, Richard Gallo Lab), **William Sinko, PhD** (Biomedical Sciences 2012, J. Andrew McCammon Lab); **John Adam Best, PhD** (Biomedical Sciences 2012, Ananda Goldrath Lab), **Jennifer Stokes, PhD** (Biomedical Sciences 2012; Tony Yaksh Lab), **A. Taylor Bright, PhD** (Biomedical Sciences 2013, Elizabeth Winzeler Lab), **Tiffany Dunbar, PhD** (Biological Sciences 2013, Emily Troemel Lab), **Kristyn Feldman, PhD** (Biomedical Sciences 2013, Co-Chair, Alexander Hoffman Lab), **Diego Nino, PhD** (Biomedical Sciences 2014, Anthony DeMaio Lab), **Andrew Borkowski** (Biomedical Sciences, Richard Gallo Lab), **Donghyuk Kim, PhD** (Bioengineering 2014, Bernhard Palsson Lab), **Justin Hammond, PhD** (Chemistry & Biochemistry 2014, Michael Burkart Lab), **Jason Lehman, PhD** (Biomedical Sciences 2014, Joseph Vinetz Lab, Co-Chair), **Suzy Szumowski, PhD** (Biological Sciences 2015, Emily Troemel Lab), **Alexa Clemmons, PhD** (Biological Sciences 2015, Steven Wasserman Lab), **Hiruy Meharena, PhD** (Biomedical Sciences 2015, Susan Taylor Lab) **Chelsea Stewart, PhD** (Biomedical Sciences 2015, Co-Chair, Partho Ghosh Lab), **Andrew Cutting, PhD** (SDSU/UCSD Biology 2015, Kelly Doran Lab), **Brandon Kim, PhD** (SDSU/UCSD Biology 2015, Kelly Doran Lab), **Jonathan Monk, PhD** (Bioengineering 2015, Bernhard Palsson Lab), **Christopher Vickery, PhD** (2016, Chemistry/Biochemistry, Michael Burkart Lab), **Gregory Goldgof, PhD** (MSTP/Biomedical Sciences 2016, Elizabeth Winzeler Lab), **Anthony Phan, PhD** (2016, Biological Sciences, Ananda Goldrath Lab), **Victoria Corey, PhD** (2016, Biomedical Sciences, Elizabeth Winzeler Lab) **Cosmo Buffalo, PhD** (Chemistry/Biochemistry 2016, Partho Ghosh Lab), **Robert Luallen, PhD** (2016, Biological Sciences, Emily Troemel Lab), **Laura Shaw, PhD** (2016, Biomedical Sciences, Co-Chair, Ananda Goldrath Lab), **Danjuma Quarless** (2016, Biomedical Sciences, Nicholas Schork Lab), **James Sanford, PhD** (2017, Biomedical Sciences, Richard Gallo Lab), **Ranmali Perera, PhD** (2017, Biological Sciences, Kit Pogliano Lab), **Matthew McGowan, MS** (2017, Biological Sciences, Partho Ghosh Lab), **Gianluigi Lichinchi, PhD** (2017, Sanford-Burnham Graduate Program, Tariq Rana Lab), **Ilean Chai, MS** (2017, Biomedical Sciences, Bruce Torbett Lab), **Jeffrey Rodvold, PhD** (2017, Biomedical Sciences, Maurizio Zannetti Lab)

Current (Alphabetical order):

**Jessica Blanton** (Marine Biology, Eric Allen Laboratory), **Joyce Chen** (Biomedical Sciences/MSTP, Anjana Rao Lab, co-chair) **Amy Chinn** (Biomedical Sciences, Paul Insel Lab), **Gabriela Guzman** (Bioengineering, Bernhard Palsson Lab), **Jane Klann** (Biomedical Sciences, Peter Ernst Lab), **Charles Larson** (Biomedical Sciences, co-chair, Bradley Moore Lab), **Michelle Lee** (Biological Sciences, Janelle Ayres Lab), **Sean Lund** (Biomedical Sciences, Lance Prince Lab), **Clarisse Marotz** (Biomedical Sciences, Karsten Zengler Lab), **Lindsay Spiegelman** (Biological Sciences, Partho Ghosh Lab), **Lee Swanson** (Biomedical Sciences, Pradipta Ghosh Lab), **Hannah Tsunemoto** (Biological Sciences, Joe Pogliano Lab), **Michael Williams** (Biomedical Sciences, Richard Gallo Lab), **Jacob Wozniak** (Biomedical Sciences, David Gonzalez Lab).

EXTERNAL COMMITTEE MEMBER/EXAMINER FOR PH.D. THESES

**Grace Lam, PhD** (University of Toronto MD/PhD Program, 2012, John Brumell Lab), **Protim Sarker, PhD** (Karolinska Institute, Stockholm Sweden, PhD Program, 2012, Birgitta Agerberth Lab), **Julia Uhlman, PhD** (Karolinska Institute, Stockholm, Sweden, PhD Program, Anna Norrby-Teglung Lab)

#### M.D. OR PHARM.D. STUDENTS / RESIDENTS MENTORED IN LABORATORY

**Amy Elmore, MD**, AAP/SPR Fellow 1999  
**Seema Tamakuwala Shah MD** AAP/SPR Fellow 1999  
**Robert Mertz, MD** UCSD Pediatric Resident Research Rotation, 2000  
**Arturo Suarez MD** UCSD School of Medicine Independent Study 2000-01  
**Kalpana Chalasani MD** UCSD Pediatric Resident, 2003  
**Daniel Chiem, MD** (UCSD SOM Independent Study Project, 2004-07  
**Seri Kimijima, MD** Medical Student, Niigata University, Japan 2009  
**Jennifer Gin, PharmD** SSPPS Summer Independent Study Program, 2010  
**Stephanie Feldstein, MD** UCSD School of Medicine Independent Study Program 2011  
**Dana Balitzer, MD** UCSD SOM HHMI Program, 2011-2012  
**Rebecka Linden, MD** Medical Student, Uppsalla University, Sweden 2012  
**Christine Tung, MD** (UCSD SOM 2011, HHMI Medical Scholars Program 2012-13  
**Jun Tachikawa** Visiting Medical Student, Niigata University, Japan 2013  
**Martin Chien** China Medical University Summer Research, Taiching, Taiwan, 2014  
**Chin-fang Sun** China Medical University, Taiwan, Summer Research, 2014  
**Junichi Okamoto** Medical Student, Niigata University, Japan 2014  
**Ryan Chang**, China Medical University, Taichung, Taiwan, Summer Research 2015  
**Kirstie Tseng**, China Medical University, Taiwan, Summer Research 2015  
**Jennifer Mon**, National Yang-Ming University, Taiwan, Summer Research 2015  
**Mengyou Wu**, UCSD SOM Independent Study Project, 2015  
**Becky Chuang**, China Medical University, Taiwan, Summer Research 2016  
**Alex Wang**, China Medical University, Taiwan, Summer Research 2016  
**Chisato Jimbo**, Medical Student, Niigata University, Japan 2016  
**Yohei Kohno**, Medical Student, Niigata University, Japan 2017  
**Jackie DeRieux**, Medical Student, University of Colorado-Denver, Summer Research 2017  
**Amanda Khoury**, Medical Student, UCSD SOM Independent Study Project, 2017  
**Christine Anterasian**, UCSD Pediatric Residency, Independent Study, 2017-2018  
**Wun-Ren Lin**, China Medical University, Taiwan, Summer Research 2017  
**Yen-Ting Chiang**, China Medical University, Taiwan, Summer Research 2017  
**Nao Ando**, Medical Student, Niigata University, Japan 2017-2018  
**Gunnar Bondsäter**, Medical Student, Lund University, Sweden 2018  
**Victoria Nilsson**, Medical Student, Lund University, Sweden 2018

#### UNDERGRADUATE / RECENT POSTGRADUATE STUDENTS MENTORED IN LAB

(Alphabetical Order) **Lena Amrayeh Kabir** (2013), **Viridiana Apodaca** (2017), **Sabina Anik** (2009-11), **Geysil Arroyo** (2000-02), **Anasheh Avakians** (2011-12), **Vivian Benoit** (2000-01), **Simi Bhardwaj** (2001-02), **Sharon Booth** (2016-present), **Garrett Brooks** (2011-2014), **Alison Chen** (2017-present), **Jason Chien** (2016-present), **Angel Chin** (2010-11), **Kelly Colvin** (2005-06), **Vladimir Cortez** (1998-99), **Quang Dam** (2010-2013), **Gitanjali Das** (2013-present), **Ashkan Davani** (2011-13), **Yelena Davydova** (1999-2000), **Carter Do** (2014-present), **Celia Ebrahimi** (2006-07), **Jennifer Ellis-Cortez** (1998-99), **Erin Engelson** (2002-04), **Ethan Ettouati** (2016), **Chukwudi Ezeokwonko** (2000-01), **Jonathan Gerhart** (2014), **Jordan Guittierez-Todd** (2014-present), **Wei Qin Fan** (2006-09), **Emily Fu** (2010), **Beverly Gagujas** (2009), **Moni Guha** (1998), **Kripa Guram** (2011-2013), **Emiliano Higuera** (1998-99), **Michelle Holland** (2017-present) **Irene Hsieh** (2005-09), **Marcus Jun Hung** (2012-13) **Arya Khosravi** (2003-06), **Shrin Kuo** (1999-2000), **May Kyaw** (2016-present), **Thomas Leung** (2013-present), **Leonardo Lima** (2014) **Aaron Louie** (2010-13), **Gregory Lum** (2017-present) **Elisa McEachern** (2010-13), **Sandra Myskowski** (2002-04), **Jeffrey Maloy** (2008), **Anh Nguyen** (2010-12), **Benjamin Ochoa** (1999-2000), **Joshua Olson** (2010-present), **Kimberlie Ong** (2012), **Alex Park** (2000-01), **Hiral Patel** (2014-present), **Silpa Patel** (2005-07), **Namrata Patil** (2012-13), **Yohan Penny** (2009), **Ranmali Perera** (2008-10), **Kaylene Pham** (2016-present), **Ida Price** (2017-present), **Darin Quach** (2006-07), **Xing Quek** (2017-present) **Brinda Ryali** (2014-present), **Bryan Ryba** (2012-2014) **Erica Sanford** (2006-07), **Shikha Sanjiv** (2009-10), **Samuel Shing** (2017-present), **Bantayehu Sileshi** (1999-00), **Amelia Simpson** (2004-06), **Michelle Soltan** (2001), **Evaristus Soubih** (2011-12) **Richard Thai** (2009-10), **Wdee Thienphrapa** (2010-13) **Dan (Tina) Tran** (2008-10), **Rudolpho Urbano** (2009),

**Alexandria Valdez** (2016-present), **Dan Vo** (2002-03), **Lisa Vuong** (2012-13), **Samantha Wang** (2011), **Yeo Wang** (2011)

#### HIGH SCHOOL STUDENTS MENTORED IN LAB

(Chronological order), **Gregory Bernstein** (Torrey Pines HS, 2005 → Stanford), **Hope Chen** (Torrey Pines HS, 2014-2015 → M.I.T.), **Rebecca Chen** (Torrey Pines HS, 2014-2015 → UCLA), **Janie Kim** (Scripps Ranch HS, 2013-2016 → Princeton), **Ethan Ettouati** (2016), **Sahil Ahuja** (2016-17 → UC Irvine), **Sarina Sabouri** (2017 – present), **Mai Kanaji** (2017-present)

#### JUNIOR FACULTY MEMBERS OF THE LABORATORY

**George Sakoulas, MD**, Associate Professor of Pediatrics, Division of Pharmacology & Drug Discovery, 2009-present  
**Shelley Lawrence, MD**, Assistant Professor of Pediatrics, Division of Neonatal Medicine, UCSD, 2015-present  
**Naveen Gupta, MD**, Assistant Professor of Medicine, Div. of Respiratory & Critical Care Medicine, UCSD, 2015-present  
**Satoshi Uchiyama, MD, PhD**, Asst. Project Scientist, Division of Host-Microbe Systems & Therapeutics, 2015-present  
**Monika Kumaraswamy, MD**, UCSD Div. Infectious Diseases; Director, Infection Control, VA San Diego, 2016-present  
**Angela Meier, MD, PhD**, Assistant Professor of Anesthesiology, 2017-present

#### FACULTY SABBATICALS HOSTED IN LABORATORY

**Mark Walker, PhD**, Professor, School of Biological Sciences, University of Wollongong, Australia  
Australian-American Fulbright Commission Senior Scholar Award Sabbatical, Jan – Mar 2006  
**Victor Baizabal Aguirre, PhD**, Facultad de Medicina Veterinaria y Zootecnia, Universidad Michoacana, Mexico,  
Recipient of a Pew Latin American Visiting Fellowship, 2008  
**Hart Isaacs, MD**, Pathologist at Rady Children's Hospital San Diego and Clinical Faculty, UCSD Pathology  
Research Sabbatical, 2010-2011  
**Myoung Sug Kim, PhD**, Scientist at the National Fisheries Research Institute Busan, Korea 2011-2012.  
**Mike Lin (林民昆), PhD**, Associate Professor, School of Traditional Chinese Medicine, China Medical University,  
Taichung, Taiwan. 2014  
**Martina Sanderson-Smith, PhD**, Assoc. Professor, School of Biological Sciences, Univ. of Wollongong, Australia, 2017.