

Victor Nizet, M.D.

Professor & Vice Chair for Basic Research, Department of Pediatrics
Chief, Division of Host-Microbe Systems & Therapeutics
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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

| | |
|------|--|
| 2013 | UCSD Chancellor's Award for Excellence in Postdoctoral Scholar Mentoring |
| 2013 | Rady Children's Hospital 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 |

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| 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 th 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

| | |
|----------------|--|
| 2015 – | Executive Committee, UCSD NIH-Funded Chemistry-Biology Interface T-32 Training Program |
| 2015 – | Co-Chair, Search Committee for Tenure Track or Tenured Professor For Engineering and Computer Science in Health Sciences, Microbiome Focus |
| 2015 – | Chair, Search Committee for Director of Pediatric Cystic Fibrosis Program, UCSD/RCHSD |
| 2014 – | Chair, Search Committee for Senior Faculty in Genomics, Epigenomics & Microbiome Science |
| 2013 – present | Member, UCSD Graduate Council |
| 2012 – present | Member, UCSD Drug Discovery Institute 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

2011 – 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
 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

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

ADVISORY BOARDS, OUTSIDE ACADEMIC

2014 – present International Advisory Board, The Florey Institute for Host-Pathogen Interactions, University of Sheffield, Sheffield, UK
 2008 – present Scientific Advisory Board, A.P. Giannini Foundation Medical Research Fellowship Program
 2008 Outside Reviewer, University of Michigan Child Health Research Center (K12 Program)
 2007 – present 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

| | |
|-------------|--|
| 2014 – | Scientific Advisor, Cidara Therapeutics, San Diego, CA |
| 2013 – | Scientific Advisor, InhibRx, San Diego, CA |
| 2012 – | Scientific Advisor, Sirenas Marine Discovery, San Diego, CA |
| 2012 – | Scientific Advisor, Loxbridge Research and Altermune Technologies, London, UK |
| 2009 – 2010 | Scientific Advisor, Juvaris Biotherapeutics, Inc. and Antigen Discovery, Inc., Palo Alto, CA |
| 2009 – | Scientific Consultant, Amplyx Pharmaceuticals, Inc., San Diego, CA. |
| 2008 – 2009 | Scientific Consultant, Helixis, Inc., Carlsbad, CA |
| 2007 – | 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 β -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 β -hemolysin expression. *J Infect Dis* 2000; 182:824-32.
- (25) Pritzlaff CA, Chang JCW, Kuo SP, Tamara GS, Rubens CE, **Nizet V**. Genetic basis for the β -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 β -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 β -hemolysin/cytolysin act in synergy to cause nitric oxide release from murine macrophages. *J Infect Dis* 2002; 186:1518-21
- (40) **Nizet V**. Streptococcal β -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 α 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 β -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 MIT1 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 β -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 hepcidin: 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 β -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, Bebiec M, Liu GY, **Nizet V**, Karin M. IKK α limits macrophage NF- κ 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.
- (67) Buchanan JT, Stannard JA, Lauth X, Ostland VE, Powell HC, Westerman ME, **Nizet V**. *Streptococcus iniae* phosphoglucosyltransferase is a virulence factor and target for vaccine development. Infect Immun 2005; 73:6935-44.
- (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.
- (75) Cole JN, McArthur JD, McKay FC, Sanderson-Smith ML, Cork AJ, Ranson M, Rohde M, Itzek A, Sun H, Ginsburg D, Kotb M, Nizet V, Chhatwal GS, Walker MJ. Trigger for group A streptococcal MIT1 invasive infection. FASEB J 2006; 20:1745-7.
- (76) Timmer AM, Kristian SA, Datta V, Jeng A, Gillen CM, Walker MJ, Beall B, Nizet V. Serum opacity factor promotes group A streptococcal epithelial cell invasion and virulence. Mol Microbiol 2006; 62:15-25.
- (77) Hensler ME, Bernstein G, Nizet V, Nefzi A. Pyrrolidine bis-cyclic guanidines with antimicrobial activity against drug resistant Gram-positive pathogens identified from a mixture-based combinatorial library. Bioorg Med Chem Lett 2006; 16:5072-9.
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- (316) Sakoulas G, Kumaraswamy M, Nonejuie P, Werth B, Rybak MJ, Pogliano J, Rice LB, **Nizet V**. Differential effects of penicillin-binding protein inactivation on the susceptibility of *Enterococcus faecium* to cationic peptide antibiotics. Antimicrob Agents Chemother 2015 (online early)
- (317) Cole JN, **Nizet V**. Bacterial evasion of host antimicrobial peptide defenses. Microbiol Spectr 2015 (in press)
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- (324) Fong JJ, Sreehara K, Deng L, Varki NM, Angata T, Liu Q, Nizet V, Varki A. Immunomodulatory activity of extracellular Hsp70 mediated via paired receptors Siglec-5 and Siglec-14. *EMBO J* 2015 (in press)
- (325) LaRock CN, Nizet V. Inflammasome/IL-1 β responses to streptococcal pathogens. *Front Immunol* 2015 (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) Kumaraswamy M, Ashlock B, Nizet V, Crotty Alexander L. Flu Gone Bad: Influenza A infection leading to status asthmaticus, diabetic ketoacidosis, and *Staphylococcus aureus* pneumonia in a previously healthy 39 year-old.
- (4) Le J, Dam Q, Schweizer M, Thienphrapa W, Nizet V, Sakoulas G. Effects of vancomycin versus nafcillin in enhancing killing of methicillin-susceptible *Staphylococcus aureus* bacteremia by human cathelicidin LL-37.
- (5) Völlger L, Akong-Moore KA, Cox L, Goldmann O, Wang Y, Schäfer S, Naim H, Nizet V, von Kückritz-Blickwede M. Iron chelating agents desferrioxamine and L-mimosine stimulate formation of neutrophil extracellular traps.
- (6) Kolar S, Kyme P, Tseng CW, Soliman A, Kaplan A, Liangó J, Nizet V, Jiang D, Murali R, Arditi M, Underhill DM, Liu GY. Group B Streptococcus evades host immunity by degrading hyaluronan.
- (7) Caffrey AR, Noh E, Sakoulas G, Opal SM, Nizet V, LaPlante KL. Statin use during *Staphylococcus aureus* bacteremia significantly improves mortality in a national cohort of Veterans. (submitted)
- (8) Makoni M, Eckert J, Pereira HA, Nizet V, Lawrence SM. Deficits in neutrophil function attributable to increased immature forms (submitted)
- (9) Kumaraswamy M, Lin L, Olson J, Sun C-F, Nonejuie P, Corriden R, Döhrmann S, Ali SR, Amara D, Rohde M, Pogliano J, Sakoulas G, Nizet V. Standard susceptibility testing masks potent azithromycin activity and cationic peptide synergy against multidrug-resistant *Stenotrophomonas maltophilia*. (submitted)
- (10) Lin L, Kim J, Chen H, Nizet V. Component analysis of multi-purpose contact lens solutions to enhance activity against *Pseudomonas aeruginosa* and *Staphylococcus aureus*. (submitted)
- (11) Berti AD, Theisen E, Demain-Sauer J, Nonejuie N, Olson J, Pogliano J, Sakoulas G, Nizet V, Proctor RA, Rose WE. Penicillin binding protein 1 is important in the compensatory response of *Staphylococcus aureus* to daptomycin-induced membrane damage and is a potential target for β -lactam-daptomycin synergy. (submitted)
- (12) Uchiyama S, Döhrmann S, Timmer AM, Dixit N, Ghochani M, Bhandari T, Timmer JC, Sprague K, Bubeck-Wardenburg J, Simon SI, Nizet V. Streptolysin O rapidly impairs neutrophil oxidative burst and antibacterial responses to group A Streptococcus. (submitted)
- (13) Quach DT, Sakoulas G, Nizet V, Pogliano J, Pogliano K. Bacterial cytological profiling as a rapid and accurate antimicrobial susceptibility testing method for *Staphylococcus aureus*. (submitted)

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 β -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.
- (8) **Nizet V**, Beall B, Bast DJ, Datta V, Kilburn L, Low DE, de Azavedo JCS. Genetic basis of streptolysin S, a bacteriocin of *Streptococcus pyogenes*. 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. 353-6, 2000.
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- (10) **Nizet V**. Localized lymphadenitis, lymphadenopathy and lymphangitis. In: Principles and Practices of Pediatric Infectious Diseases, 2nd 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.
- (13) Liu GY, **Nizet V**. The group B streptococcal β -hemolysin/cytolysin. In: The Comprehensive Sourcebook of Bacterial Protein Toxins, 3rd Edition. Eds: J Alouf, M Popoff. Elsevier, London, p. 737-47, 2006.
- (14) **Nizet V**, Rubens CE. Pathogenic mechanisms and virulence factors of group B streptococci. In: Gram-positive pathogens, 2nd Edition. Eds: VA Fischetti, RP Novick, JJ Ferretti, DA Portnoy, JI Rood. ASM Press, Washington, DC, p. 152-68, 2006.
- (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.
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- (19) **Nizet V**, Esko J. Bacterial and viral infections. In: Essentials of Glycobiology, 2nd 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, 3rd 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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- (24) Arnold JC, Nizet V. Pharyngitis. In: Principles and Practices of Pediatric Infectious Diseases, 4th 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, 4th 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.
- (31) Nizet V, Bradley JS. Staphylococcal 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. 475-503. 2015.
- (32) Cole JN, Nizet V. Bacterial evasion of host antimicrobial peptide defenses. In: Virulence Mechanisms of Bacterial Pathogenesis. ASM Press 2015 (accepted)

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) | 09/01/2002 – 03/30/2006 |

NIH/NIAID via VMRF
"Cathelicidins and Skin Immunity"

02-R01AI040198, Kotb (PI), Nizet (subcontract PI) 08/15/2003 – 08/15/2007
NIH/University of TN-Health Sci Ctr
"Immunopathogenesis of Group A Streptococcal Infection"

01-R01-A148694, Nizet (PI) 04/01/2002 – 03/31/2009
NIH/NIAID
"SLS: Molecular Basis and Role in Invasive GAS Disease"

Type: P01, Varki (PI), Nizet (co-Inv) 02/01/2003 – 01/31/2006
NIH/ NHLBI (5% salary to Nizet)
"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

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| NIH/NIAID via VMRF (33% of budget to Nizet Lab) "Cathelicidins and Skin Immunity" | |
| 03-P01-HL057345 Varki (PI), Nizet (Co-Investigator) NIH/NHLBP, (Nizet, 5% salary support) "Genetic Modulation of Blood and Vascular Glycosylation" | 01/21/2008 – 12/30/2012 |
| R01 Mechanism Fenical, Nizet (co-PIs) NIH/NIGMS (50% of budget to Nizet Lab) "The Discovery of New Antibiotics from Deep Sea Actinomycece Bacteria" | 04/01/2008 – 03/31/2013 |
| Senior Investigator Award, Nizet (PI) Strategic Program for Asthma Research "HIF Control of Inflammatory Responses in Asthma" | 07/01/2008 – 06/30/2011 |
| R01-A1077780, Nizet (PI) NIH/NIAID "GAS Switch from Colonizing Bacterium to Invasive Pathogen" | 09/01/2008 – 08/31/2013 |
| Sponsored Research Contract, Nizet (PI) Akebia Therapeutics, Indianapolis, IN "Evaluation of HIF Boosting Drugs for Treatment of Bacterial Infections" | 10/01/2009 – 09/30/2010 |
| 1R01AI0993451-01, Nizet (PI) NIH/NIAID "Boosting Innate Immunity Through HIF to Treat Drug-Resistant Bacterial Infections" | 04/05/2011 – 03/31/2016 |
| 1 P01 HL107150-01, Varki (PI), Nizet (Project Leader) NIH/NHLBI Project 2: "Microbial Glycan Mimicry and Glycosidases in Inflammatory Responses" | 07/01/2011 -- 06/30/2018 |
| DOD Medical Research Program, Shalwitz (PI), Nizet (subcontract PI) Department of the Army-USAMRAA via Akebia Therapeutics "Boosting Innate Immunity to Combat Wound Infections" | 02/10/2011 - 03/09/2013 |
| R01-AI096837-01, Ghosh and Nizet (co-PIs) NIH/NIAID "Mechanisms of M Protein in Group A Streptococcus Virulence" | 07/01/2011 – 06/30/2016 |
| U54-HD071600, Capparelli and Nizet (co-PIs) NIH/NICHHD "Developmental and Translational Pharmacology of Pediatric Antimicrobial Therapy" | 10/01/2011 – 06/30/2016 |
| 5U54AI057153-09 Nizet (PI) NIH/NIAID via GLRCE/U. Chicago "Optimizing Phagocytic Activity Against Antibiotic-Resistant Pathogens" | 03/01/2012 – 02/28/2014 |
| Sponsored Research Contract, Nizet (PI) Altermune Technologies, LLC "Modified Aptamers to Redirect Pre-existing Antibodies to Drug-Resistant Bacteria" | 04/16/2012 – 04/15/2015 |
| Sponsored Research Contract, Nizet (PI) InhibRX, Inc. "Evaluation of Engineered Antibacterial Therapeutics Antibodies" | 12/01/2013 – 11/30/2015 |
| 1 R01 AI110713-01, Bier and Nizet (co-PIs) NIH/NIAID "Analyzing a novel mechanism of action of bacterial cAMP producing toxins" | 04/01/2014 – 03/31/2019 |
| 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 – 12/31/2015

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"

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.

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, 50th 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+ 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, Tangalooma 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

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, 104th 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, 46th 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, 14th 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/NICHHD, 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, 108th 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, 10th 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 40th Anniversary Symposium, La Jolla, CA, 3/09.
- (53) Invited Lecture, 31st 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 12th 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, 47th 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, 50th 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, 4th 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, 7th Sino-U.S. Conference on Medicine in the 21st 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, 75th 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, 15th 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 Speaker, International Symposium on Infectious Disease and Signal Transduction, National Cheng Kung University, Tainan, Taiwan, 11/15.
- (152) Invited Seminar, Frontiers in Pediatric Research Seminar Series, University of Iowa, Iowa City, Iowa, 12/15

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
Current Position: Assistant Project Scientist, Nizet Lab, Department of Pediatrics, UCSD School of Medicine
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-Merck 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

Current Postdoctoral Fellows (in alphabetical order)

- Bernice Aguilar, PhD** (Postdoctoral Fellow via University of Southern California), 2012-present
Recipient of IRACDA Fellowship (2012-2015)
- Alison Coady, PhD** (Postdoctoral Fellow via University of California, San Francisco Biomedical Sciences), 2015-present
- Anna Henningham, PhD** (Postdoctoral Fellow via University of Queensland, Australia) 2010-present
- Monika Kumaraswamy, MD** (UCSD Infectious Diseases Fellowship Program via Case Western SOM) 2013-present
- Christopher LaRock, PhD** (Postdoctoral Fellow via University of Washington) 2013-present
Recipient of an A.P. Giannini Postdoctoral Fellowship (2012-2015)
- Doris LaRock, PhD** (Postdoctoral Fellow via University of Washington, Scripps Research Institute) 2015-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
- Angelica Riestra, PhD** (Postdoctoral Fellow via University of California, Los Angeles Biomedical Sciences)
Recipient of IRACDA Fellowship (2012-2015)
- Chih-Ming Tsai, PhD** (Postdoctoral Fellow via Academia Sinica, Taiwan) 2014-present
- Kim-Thuy Truong, MD** (UCSD Pulmonary-Critical Care Medicine Fellowship) 2015-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 (β -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**, 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**, Biomedical Sciences PhD Program (Thesis Advisor) 2009-2013
 Thesis Title: “The role of hypoxia-inducible factor in the immune response to infection”
 Current Position: Mom to Dion and Kaya, Scientific Writing

PhD Degree Conferred (Co-Advisor):

13. **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
14. **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
15. **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
16. **Anna Cogen, 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

M.S. Degree Conferred:

1. **Jennifer Chang, PhD** UCSD Biological Sciences Integrated BS/MS (1998-2000)
Thesis title: “The group B streptococcal β -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 α -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: Adaptagens: 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

GRADUATE STUDENTS CURRENTLY IN TRAINING (Alphabetical order)

Simon Döhrmann, Humbolt University (Berlin, Germany) PhD Program (Research Advisor) 2013-present
Tamara Escajadillo, UCSD Biomedical Sciences Graduate Program (Thesis Advisor) 2015-present
Roxana Flores, SDSU-UCSD Biological Sciences MS Program (Thesis Advisor) 2014-present
Leo Lin, UCSD MSTP/Biomedical Sciences (Thesis Advisor) 2012-present
Jason Munguia, UCSD Biomedical Sciences Graduate Program (Thesis Advisor) 2012-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 Visitng 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, Braunschweig Technical University, Germany, 2015
Natascha Heinsohn, Visiting Master's Student, Braunschweig Technical University, Germany, 2015

UCSD GRADUATE STUDENT ROTATIONS

(Alphabetical order) **Afsheen Banisadr** (Biomedical Sciences 2015), **Adam Best** (Biomedical Sciences 2007), **Andrew Borkowski** (Biomedical Sciences 2008), **Taylor Bright** (Biomedical Sciences 2008), **Joyce Chen** (MSTP 2012), **Minh-ha Do** (Biomedical Sciences 2003), **Sophia Española** (Biomedical Sciences 2013), **Anthony Essex** (Biomedical Sciences 2004), **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), **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 Salveson 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), Chelsea Stewart (Biomedical Sciences 2015, Co-Chair, Partho Ghosh Lab).

Current (Alphabetical order):

Jessica Blanton (Marine Biology, Eric Allen Laboratory), Cosmo Buffalo (Chemistry/Biochemistry, Partho Ghosh Lab), Ilean Chai (Biomedical Sciences, Bruce Torbett Lab), Victoria Corey (Biomedical Sciences, Elizabeth Winzeler Lab), Gregory Goldgof (MSTP/Biomedical Sciences, Elizabeth Winzeler Lab), Gabriela Guzman (Bioengineering, Bernhard Palsson Lab), Jenny Huang (Biomedical Sciences, Richard Gallo Lab), Jane Klann (Biomedical Sciences, Peter Ernst Lab), Charles Larson (Biomedical Sciences, co-chair, Bradley Moore Lab), Gianluigi Lichinchi (Sanford-Burnham Graduate Program, Tariq Rana Lab), Robert Luallen (Biological Sciences, Emily Troemel Lab), Jonathan Monk (Bioengineering, Bernhard Palsson Lab), Ranmali Perera (Biological Sciences, Kit Pogliano Lab), Anthony Phan (Biological Sciences, Ananda Goldrath Lab) Jeffrey Rodvold (Biomedical Sciences, Maurizio Zannetti Lab) Danjuma Quarless (Biomedical Sciences, Nicholas Schork Lab) James Sanford (Biomedical Sciences, Richard Gallo Lab), Laura Shaw (Biomedical Sciences, Co-Chair, Ananda Goldrath Lab), Hiruy Meharena (Biomedical Sciences, Susan Taylor Lab), Michael Williams (Biomedical Sciences, Richard Gallo Lab).

EXTERNAL COMMITTEE MEMBER/EXAMINER FOR PH.D. THESES

Grace Lam, PhD (University of Toronto MD/PhD Program, 2012, John Brumell Lab), Gianluigi Linchichi (Sanford Burnham Institute/Molecular Medicine PhD Program, Tariq Rana Lab), Protim Sarker, PhD (Karolinska Institute, Stockholm PhD Program, 2012, Birgitta Agerberth 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 (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
Mengyou Wu, UCSD SOM Independent Study Project, 2015

UNDERGRADUATE / RECENT POSTGRADUATE STUDENTS MENTORED IN LAB

(Alphabetical order) **Lena Amrayeh Kabir** (2013), **Sabina Anik** (2009-11), **Geysil Arroyo** (2000-02), **Anasheh Avakians** (2011-12), **Vivian Benoit** (2000-01), **Gregory Bernstein** (2005), **Simi Bhardwaj** (2001-02), **Garrett Brooks** (2011-2014), **Hope Chen** (2014-current), **Rebecka Chen** (2014-current), **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), **Chukwudi Ezeokwonko** (2000-01), **Jonathan Gerhart** (2014), **Jordan Guittierez-Todd** (2014-present), **Weiqin Fan** (2006-09), **Emily Fu** (2010), **Beverly Gagujas** (2009), **Moni Guha** (1998), **Kripa Guram** (2011-2013), **Emiliano Higuera** (1998-99), **Irene Hsieh** (2005-09), **Marcus Jun Hung** (2012-13) **Arya Khosravi** (2003-06), **Janie Kim** (2013-present), **Shrin Kuo** (1999-2000), **Thomas Leung** (2013-present), **Leonardo Lima** (2014) **Aaron Louie** (2010-13), **Elisa McEachern** (2010-13), **Sandra Myskowski** (2002-04), **Jeffrey Maloy** (2008), **Anh Nguyen** (2010-12), **Benjamin Ochoa** (1999-2000), **Joshua Olson** (2010-present) **Alex Park** (2000-01), **Hiral Patel** (2014-present), **Silpa Patel** (2005-07), **Namrata Patil** (2012-13), **Yohan Penny** (2009), **Ranmali Perera** (2008-10) **Darin Quach** (2006-07), **Brinda Ryali** (2014-present), **Bryan Ryba** (2012-2014) **Erica Sanford** (2006-07), **Shikha Sanjiv** (2009-10) **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), **Dan Vo** (2002-03), **Lisa Vuong** (2012-13), **Samantha Wang** (2011), **Yeo Wang** (2011)

FACULTY SCHOLARS TRAINING IN LABORATORY

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, 2014-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
George Sakoulas, MD, Associate Professor of Pediatrics, Division of Pharmacology & Drug Discovery, 2009-present
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