

出國報告（出國類別：國際會議）

細菌毒素與致病機轉

服務機關：國防醫學院微免所

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派赴國家：美國

出國期間：2014/07/19-2014/07/26

報告日期：2014/07/28

摘要

國科會計畫 (NSC102-2320-B-016-013-MY2) 補助參加 2014 Gordan Research Conference “Bacterial toxins and pathogenesis”，發表論文” The involvement of PI-specific phospholipase C -n staphylococcal scarlet fever”。摘要如下：

金黃色葡萄球菌猩紅熱是一種由毒素造成的疾病會產生全身性紅疹，非常近似由鏈球菌造成的猩紅熱，但不會造成咽喉感染。為了探討金黃色葡萄球菌猩紅熱的致病機轉，我們分析了會致病與不會致病的菌株群，其分泌蛋白質的種類差異。利用二維電泳及銀染方式，我們找到差異性蛋白質，並以質譜儀的方式確認此蛋白質為磷脂酶C。利用西方墨點法及專一抗體進一步研究，發現磷脂酶C在致病菌株中有較高的表現量。我們進一步利用分生技術製備野生及單點突變的磷脂酶C重組蛋白質，先利用酵素功能確認單點突變株順利失去活性。接著，將這些重組蛋白質送入小鼠巨噬細胞株中，發現野生型磷脂酶C可以活化鈣離子釋放，促進活性氧離子生成。若將表現磷脂酶C的基因在金黃色葡萄球菌株中作剔除建構突變株，我們發現其感染人類臍帶靜脈內皮細胞並促進CD62E表現的能力有降低的趨勢。總結，金黃色葡萄球菌的磷脂酶C會活化鈣離子訊號傳遞，促進活性氧離子生成，及CD62E表現，在造成金黃色葡萄球菌猩紅熱的菌株中表現量較高，猜測與內皮細胞通透性增加相關，但詳細機轉還有待進一步了解。這個研究將有助於我們尋找治療金黃色葡萄球菌的替代方案。

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一、目的

了解細菌利用毒素或菌體本身的組成物造成疾病的致病機轉。除了拓展研究新知，也透過與不同研究人員的交談，增加自己研究領域的可見度，促進研究材料的交流，並提高與國外學者合作的可行性。

二、過程

很感謝科技部提供這個機會讓我參加在美國新罕布夏州沃特維爾谷渡假村(Waterville Valley Resort)所舉辦的微生物毒素與致病機轉會議(Microbial toxins & Pathogenicity)。此行臺灣僅我一人參加，搭乘日本航空經由日本東京轉機的班機到美國波士頓羅根國際機場，到達機場後先到會議指定地點等候由會場安排的接駁車接送。到會議所在地參加當天晚上開始的 keynote session，主題為微生物毒素與致病機轉(Microbial toxins & Pathogenicity)。

接下來四天，由來自全球的科學家們依不同主題進行學術演講及討論。本次會議於 7 月 25 日早上完滿結束，並由會場安排的接駁車送至波士頓羅根國際機場搭乘日本航空經由日本東京轉機的班機於 7 月 26 晚間回到台灣。

三、報告時間

2014/7/21-22 以海報方式進行報告。

四、報告過程

海報張貼時間為期兩天，作者在張貼第二天下午，即 7/22 下午必須站在海報前與與會者討論，約有 5-8 位研究者在這段期間與我輪流進行討論。簡單介紹金黃色葡萄球菌的致病能力並導引至金黃色葡萄球菌猩紅熱的症狀後，切入主題與大家分享了我們利用蛋白質體學的方式篩選到 PI-PLC 為可能的致病因子，並以分子生物學的方式確認其功能及與細胞之間的交互作用。針對與會者提出的問題加以回答，並分享可能的解決方式。最後，與其中一位研究者討論研究材料分享的可能性，希望能在回國後利用他們的生物材料釐清我們研究上不足的地方。本次報告收穫很

多，也藉此與相同領域的研究學者作了許多交流！

五、心得及建議

此次之會議共分為 7 個 sections，分別為 Mechanisms of Toxin action and Strategies for protection, Cell biology of host barriers to infection, Microbial adaption strategies, Infection biology of gut microbiomes, Virulence mechanisms, Battle for nutrients, The inflammatory barriers to infection, Infection control。在本次會議中我看到很多目前在細菌毒素致病機轉及發炎反應的領域中相當傑出的科學家，並且從他們的演講或所張貼的海報中學習到相當多有關於細菌毒素及致病機轉的最新研究進展，其中又以細菌如何調控自身的訊息傳遞，細胞內病原菌如何影響細胞訊息傳遞，及細胞的抵禦機制這三個部份讓我受益良多。細菌的訊息傳遞本已是我在研究所的授課主題之一，演講中不斷出現的細菌 c-di-GMP 調控機轉，充實了我對該另領域的不足；演講從各個方向切入，讓我透過演講者願意分享的態度，看到他們遇到瓶頸的時候如何從最近熱門的 CRISPR-Cas 進一步發現 ScaRNA；從海地霍亂疫情的再爆發，分析該地分離株如何透過突變影響細胞；探討 CD 菌如何抑制腸道 RhoGTPase，並提出治療策略上的遠景；知道幽門螺旋桿菌為什麼在感染後很久才開始引發宿主免疫反應；從細菌感染後會影響 epigenetic 思索實驗的新領域，...等。另外，透過與與會人士的專業討論，激發許多研究靈感，是我此行最大的收穫：其中探討 pyroptosis 是否可能為另一個細菌散佈的機制；lncRNA 是否為 tolerogenic APC 的一種機制升高其活化的門檻；在 inflammasome 活化前細菌如何死亡等，讓我印象深刻。而此次會議中，很高興遇到在肺炎鏈球菌磷酸膽鹼研究領域的前輩 Jeffery Weisser，他很慷慨地與我分享研究的方向並給了我許多建議，是我此行最大的驚喜，希望未來能透過這些建議拓展研究的寬度。

這是我第一次參加 Gordon research conference，也是我第一次參加在美國舉辦的會議。跟以往參加在歐洲舉行的會議最大的不同，即這是一個比較小的主題型會議，來自世界各地的研究人員雖然探討的主題很接近，但應用的方法很寬廣，對研究領域的擴展具有很大的幫助。同時，在約 100-200 人的會議進行期間，與會者

不論聽演講，用餐，coffee break 都在同一個空間裡，彼此頻繁而密切地討論專業領域，並分享研究經歷是我覺得不同於許多在歐洲開的大型會議中，最特別的一點。另外，各領域研究人員雖很多彼此熟識，但不會在用餐時間固定找同樣的伴，反而，很自然的找陌生面孔進行攀談，並親切而開放的接受途中插入的用餐者，分享彼此的背景與經驗，是我覺得非常特殊的體驗。其中原因，我想大會設定了參加者的審核機制，也明定禁止拍照及提供資料引用原則，並拒絕紙本摘要的提供，為這樣的會議提供了保護方式，讓參加者願意以比較信任且開放的方式進行分享，也許是國內在辦研討會時一個可以努力的方向。

這次出席國際會議收穫很多，對於研究領域的擴展有許多幫助。目前科技部已有許多的補助方式辦理國際型研討會，並邀請國外學者參加國內演講，但只有少數學會具有辦理國際型研討會的經歷。建議研究主管機關可以鼓勵、獎勵的方式提升國內學會辦理國際研討會的意願，讓研究領域與國內研究學者接近的國外學者來台分享研究成果，不僅得到許多交流的機會，也提高大家研究領域的能見度，對於同儕審理論文會比較有優勢。

六、攜回資料名稱及內容

基於保護參與者的研究發現以及提高發表新發現的意願，Gordon research conference 並不提供與會者的論文摘要也禁止拍照。所以並沒有帶回來任何參考資料，只有與會者的名單與演講海報題目(如附件)。

Microbial Toxins & Pathogenicity

Gordon Research Conference

Mechanisms that Govern Bacterial Disease

July 20-25, 2014
Waterville Valley Resort
Waterville Valley, NH

Chair: Michele S. Swanson
Vice Chair: Virginia L. Miller

Contributors



The Chair also gratefully acknowledges personal contributions from former Chairs of this conference.

Conference Program

SUNDAY

2:00 pm - 9:00 pm	Arrival and Check-in
6:00 pm	Dinner
7:30 pm - 7:40 pm	Welcome / Introductory Comments by GRC Site Staff
7:40 pm - 9:30 pm	Keynote Session: Microbial Toxins and Pathogenesis Discussion Leader: Virginia Miller (University of North Carolina-Chapel Hill)
7:40 pm - 8:15 pm	Victor Nizet (University of California-San Diego) "Glycan Mimicry and Invasive Streptococcal Pathogenesis"
8:15 pm - 8:20 pm	Discussion
8:20 pm - 8:55 pm	Jos van Strijp (University Medical Center Utrecht) "Staphylococcal Toxins in Immune Evasion"
8:55 pm - 9:00 pm	Discussion
9:00 pm - 9:10 pm	Andrew Olive (Harvard Medical School) "The Chlamydia Effector CrpA Alters the Host Hypoxic Response"
9:10 pm - 9:15 pm	Discussion
9:15 pm - 9:25 pm	Sarah Clark (University of Colorado Denver) "The Role of Natural Killer Cells During Listeria Infection"
9:25 pm - 9:30 pm	Discussion

MONDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Mechanisms of Toxin Action and Strategies for Protection
9:00 am - 9:15 am	Discussion Leader: Jimmy Ballard (Oklahoma Health Sciences)
9:15 am - 9:40 am	Brad Cookson (University of Washington) "Burning Down the House: Host Response to Yersinia Intoxication"
9:40 am - 9:50 am	Discussion
9:50 am - 10:15 am	Liz Hartland (University of Melbourne) "EPEC Effectors Versus Gut Inflammation"
10:15 am - 10:25 am	Discussion
10:25 am	Group Photo / Coffee Break
10:45 am - 11:10 am	Rongsheng Jin (University of California - Irvine) "Crystallizing Our Understanding of Botulinum Neurotoxin"
11:10 am - 11:20 am	Discussion
11:20 am - 11:45 am	Drusilla Burns (FDA) "Understanding Anthrax Vaccine Longevity: Molecular Analysis of Protective Antigen Stability in Vaccines"
11:45 am - 11:55 am	Discussion
11:55 am - 12:20 pm	Cheryl Quinn (ImmuVen) "Neutralizing Staph Superantigens with Decoy Receptors"
12:20 pm - 12:30 pm	Discussion

12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm	Dinner
7:30 pm - 9:30 pm	Cell Biology of Host Barriers to Infection
7:30 pm - 7:45 pm	Discussion Leader: John Brumell (University of Toronto)
7:45 pm - 8:10 pm	David Mosser (University of Maryland) "New Perspectives on Macrophage Activation"
8:10 pm - 8:20 pm	Discussion
8:20 pm - 8:45 pm	Joost Enninga (Pasteur Institute) "Targeting Host Endomembrane Integrity During Cellular Invasion by Bacterial Pathogens and Its Impact on the Immune Response"
8:45 pm - 8:55 pm	Discussion
8:55 pm - 9:20 pm	Serge Mostowy (Imperial College) "Autophagy and the Cytoskeleton in Host Defense Against Intracytosolic Bacteria"
9:20 pm - 9:30 pm	Discussion

TUESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Microbial Adaption Strategies
9:00 am - 9:15 am	Discussion Leader: Vanessa Sperandio (University of Texas Southwestern Medical Center)
9:15 am - 9:40 am	Matt Chapman (University of Michigan) "Ironing Out the Wrinkles in <i>E. coli</i> Biofilm Formation"
9:40 am - 9:50 am	Discussion
9:50 am - 10:15 am	Rita Tamayo (University of North Carolina-Chapel Hill) "Regulation of <i>Clostridium difficile</i> Virulence by c-di-GMP "
10:15 am - 10:25 am	Discussion
10:25 am	Coffee Break
10:45 am - 11:10 am	David Weiss (Emory) "CRISPR-Cas Systems in Bacterial Pathogenesis and Beyond"
11:10 am - 11:20 am	Discussion
11:20 am - 11:45 am	Andrew Camilli (Tufts Medical School / HHMI) "A <i>Vibrio cholerae</i> / Phage Arms Race in the Context of Human Infection"
11:45 am - 11:55 am	Discussion
11:55 am - 12:20 pm	Karen Ottemann (University of California-Santa Cruz) " <i>Helicobacter pylori</i> Proteins and Processes that Drive the Host Inflammatory Response"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch

1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm	Dinner
7:30 pm - 9:30 pm	Infection Biology of Gut Microbiomes
7:30 pm - 7:45 pm	Discussion Leader: Richard Darveau (University of Washington)
7:45 pm - 8:10 pm	June Round (University of Utah) "Direct Detection of the Microbiota by T Cells Prevents Pathobiont Expansion to Maintain Intestinal Homeostasis"
8:10 pm - 8:20 pm	Discussion
8:20 pm - 8:45 pm	Vince Young (University of Michigan Medical School) "Interaction Between the Host, Pathogen and Microbiome in <i>C. difficile</i> Infection"
8:45 pm - 8:55 pm	Discussion
8:55 pm - 9:20 pm	Cynthia Sears (Johns Hopkins) "The Microbial Landscape of Colon Cancer"
9:20 pm - 9:30 pm	Discussion

WEDNESDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Virulence Mechanisms
9:00 am - 9:15 am	Discussion Leader: Jim Kaper (University of Maryland)
9:15 am - 9:40 am	J.-D. Sauer (University of Wisconsin) "Mechanisms and Consequences of Cytoplasmic Bacteriolysis"
9:40 am - 9:50 am	Discussion
9:50 am - 10:15 am	Melanie Hamon (Pasteur Institute) " <i>Listeria monocytogenes</i> Dampens the DNA Damage Response During Infection"
10:15 am - 10:25 am	Discussion
10:25 am	Coffee Break
10:45 am - 11:10 am	Joao Pedra (University of Maryland) "Ubiquitylation and Pathogen Colonization of Disease Vectors"
11:10 am - 11:20 am	Discussion
11:20 am - 11:45 am	Tod Merkel (FDA) "Modeling Pertussis Disease and Transmission"
11:45 am - 11:55 am	Discussion
11:55 am - 12:20 pm	Darren Higgins (Harvard Medical School) "An ATLAS for the Development of T Cell-Based Vaccines for Infectious Diseases"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	<u>Poster Session</u>

6:00 pm	Dinner
7:00 pm - 7:30 pm	<u>Business Meeting</u> <i>Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences; Election of the Next Vice Chair</i>
7:30 pm - 9:30 pm	Battle for Nutrients
7:30 pm - 7:45 pm	Discussion Leader: Chris Alteri (University of Michigan Medical School)
7:45 pm - 8:10 pm	Sabine Ehrt (Cornell Weill College of Medicine) "Mycobacterium tuberculosis Carbon Metabolism: Carb Counting and Atkins Diet?"
8:10 pm - 8:20 pm	Discussion
8:20 pm - 8:45 pm	Manuela Raffatellu (University of California - Irvine) "Guts, Germs, and Steel: Microbes and Metal in the Inflamed Gut"
8:45 pm - 8:55 pm	Discussion
8:55 pm - 9:20 pm	Anders Omsland (Washington State University) "Taming Obligates - A Way to Dissect the Secrets of Biphasic Life"
9:20 pm - 9:30 pm	Discussion

THURSDAY

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	The Inflammatory Barrier to Infection
9:00 am - 9:15 am	Discussion Leader: Lee-Ann Allen (University of Iowa)
9:15 am - 9:40 am	Ed Miao (University of North Carolina - Chapel Hill) "Cytosolic LPS Activates Caspase-11: Implications in TLR4-Independent Endotoxic Shock"
9:40 am - 9:50 am	Discussion
9:50 am - 10:15 am	Kate Fitzgerald (University of Massachusetts Medical School) "Regulation of Host-Pathogen Interactions by Long Non-Coding RNAs"
10:15 am - 10:25 am	Discussion
10:25 am	Coffee Break
10:45 am - 11:10 am	Ari Molofsky (University of California - San Francisco) "Allergic Inflammation in Visceral Adipose Tissue"
11:10 am - 11:20 am	Discussion
11:20 am - 11:45 am	Caroline Genco (Boston University School of Medicine) "Pathogen Induced Vascular Inflammation at Sites Distant from Infection"
11:45 am - 11:55 am	Discussion
11:55 am - 12:20 pm	Beth McCormick (University of Massachusetts Medical School) "Dysregulation of the Balance Between Pro- and Anti-Inflammatory Mediators During Salmonella-Induced Enteritis"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time

4:00 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm	Dinner
7:30 pm - 9:30 pm	Infection Control
7:30 pm - 7:40 pm	Discussion Leader: Erik Hewlett (University of Virginia College of Medicine)
7:40 pm - 8:10 pm	Man-Wah Tan (Genentech) "Novel Approaches for Targeting Drug Resistant Bacteria"
8:10 pm - 8:20 pm	Discussion
8:20 pm - 8:50 pm	Julie Segre (NIH NHGRI) "Single Molecule Sequencing to Explore Horizontal Transfer of Plasmids Encoding Carbapenemase Resistance Between Hospital-Associated Enterobacteriaceae"
8:50 pm - 9:00 pm	Discussion
9:00 pm - 9:10 pm	TBA (GRS Selected Short Talk)
9:10 pm - 9:15 pm	Discussion
9:15 pm - 9:25 pm	TBA (GRS Selected Short Talk)
9:25 pm - 9:30 pm	Discussion

FRIDAY

7:30 am - 8:30 am	Breakfast
9:00 am	Departure

Poster List

Please display your poster at the board # indicated below

Posters with a PI in front of their number should display and present on Monday and Tuesday

Posters with a PII in front of their number should display and present on Wednesday and Thursday

#	Name	Affiliation	Co-Authors	Poster Title
PI-1	Abbott, Zachary	University of Michigan	Yakhnina H, Portier E, Hechard Y, Babitzke P, Swanson MS	<i>Legionella pneumophila</i> uses a CsrA superfamily protein to regulate biofilm formation and environmental persistence
PII-1	Adams, Walter	University of California Santa Cruz	Laura Kwuan, and Victoria Auerbuch	Role of the YopD central region in <i>Yersinia pseudotuberculosis</i> type III secretion and innate immune signaling.
PI-2	Aggarwal, Chaitanya	University of Illinois, Chicago	Kiira Ratia, Juan C. Jimenez, Hyun Lee, Michael J. Federle	Identification of <i>Streptococcal</i> communication signals and discovery of signal blockers to prevent biofilm formation
PII-2	Alonzo, Francis	New York University School of Medicine	Tamara Reyes-Robles, Victor J. Torres	Investigating the mechanistic underpinnings of toxin-induced lethality caused by the <i>Staphylococcus aureus</i> leukocidin ED
PI-3	Anderson, Ericka	UCSD Medical School		The fibrinogen-binding M1 protein reduces pharyngeal cell adherence and colonization phenotypes of M1T1 group A <i>Streptococcus</i> .
PII-3	Asrat, Seblewongel	Tufts University School of Medicine	Ralph R. Isberg	Pattern-recognition controls bypass of translation inhibition during <i>Legionella</i> infection
PI-4	Bachman, Michael	University of Michigan		Identification of <i>Klebsiella pneumonia</i> virulence factors required to cause pneumonia and sepsis
PII-4	Badarau, Adriana	Arsanis Biosciences	Harald Rouha	A conserved epitope on <i>S. aureus</i> toxins elicits broadly cross-neutralizing antibodies
PI-5	Barber, Matthew	University of Utah	Nels Elde	Iron piracy drives dynamic evolution of primates and bacterial pathogens
PII-5	Barbieri, Joseph	Medical College of Wisconsin	Faith C. Blum, William H. Tepp, and Eric A. Johnson	Multiple domains of tetanus toxin direct entry into primary neurons

PI-6	Barker, Jeffrey	Duke University Medical School	Raphael Valdivia	The use of <i>Chlamydia</i> genetics as a tool for understanding the role of c-di-AMP during <i>Chlamydia</i> infection
PII-6	Bauler, Laura	Rocky Mountain Laboratory, NIAID, NIH		Role of the histone-like proteins during <i>Chlamydia</i> differentiation
PI-7	Bavoil, Patrik	University of Maryland	Sergio A. Mojica, Kelley M. Hovis, Jacques Ravel, Patrik M. Bavoil	SINC, a type-III secreted protein of <i>Chlamydia psittaci</i> , is translocated to the nuclear envelope of infected and neighboring non-infected cells via a novel calcium-dependent pathway
PII-7	Blanke, Steven	University of Illinois		Remodeling of pathogen-containing vacuoles: New perspectives in <i>Bacillus anthracis</i> egress from macrophages
PI-8	Bomberger, Jennifer	University of Pittsburgh School of Medicine	Lauren P. Lashua, Douglas K. Fischer, Matthew R. Hendricks	The innate immune response to respiratory virus infection enhances <i>Pseudomonas aeruginosa</i> biofilm growth
PII-8	Brodsky, Igor	University of Pennsylvania	M.A. Wynosky-Dolfi, A.G. Snyder, N.H. Philip, P.J. Doonan, M.C. Poffenberger, D. Avizonis, E.E. Zwack, A.M. Riblett, B. Hu, T. Strowig, R.A. Flavell, R.G. Jones, B.D. Freedman	Metabolic control of inflammasome activation by intracellular bacteria
PI-9	Bronner, Denise	University of Michigan - Ann Arbor	Yongqun He, and Mary X. O'Riordan	PERK Suppresses inflammasome activity via mitophagy
PII-9	Bumba, Ladislav	Institute of Microbiology of the ASCR, v.v.i.	Ladislav Bumba, Jiri Masin, Pavel Macek, Lucia Motlova, Tomas Wald, Ilona Bibova, Lucie Bednarova, Peter Sebo	Intramolecular ratchet mechanism of calcium loading-dependent folding of β -roll domains drives translocation of RTX proteins through the type I secretion system
PI-10	Cerny, Ondrej	Institute of Microbiology of the ASCR, v.v.i.	Jana Kamanova, Jiri Masin and Peter Sebo	SHP-1 phosphatase activation by <i>Bordetella adenylate</i> cyclase toxin prevents induction of bactericidal nitric oxide in macrophages
PII-10	Chouikha, Iman	NIH/NIAID/Rocky Mountain Laboratories	B. Joseph Hinnebusch	Silencing the insecticidal activity of <i>Yersinia pestis</i> urease was an important step in the evolution of flea-borne transmission

PI-11	Chuang, Yi-Ping	National Defense Medical Center		The involvement of PI-specific phospholipase C in staphylococcal scarlet fever
PII-11	Chumbler, Nicole	Vanderbilt University	Nicole M. Chumbler, Melissa A. Farrow, Lynne Lapierre, Jeffrey L. Franklin, D. Borden Lacy	Inhibiting <i>Clostridium difficile</i> Toxin B induced necrosis by targeting the NADPH oxidase pathway.
PI-12	Clark, Sarah	University of Colorado Denver	Laurel L. Lenz	The role of natural killer cells during <i>Listeria</i> infection
PII-12	Clements, Abigail	Imperial College London		Altering the cell surface proteome of enterohaemorrhagic <i>E. coli</i> infected cells
PI-13	Coburn, Jenifer	Medical College of Wisconsin	Karen V. Evangelista, Ricardo Franco, Andrew Schwab, Elsie Wunder Jr., Albert Ko	Identification of <i>Leptospira interrogans</i> adhesins and host cell surface receptors
PII-13	Coers, Jorn	Duke University		IFN-inducible GTPases regulate immunity to <i>Chlamydia trachomatis</i> infections
PI-14	Cole, Stephanie	Cell Biology and Molecular Genetics	Angela R. Records, Mona W. Orr, Sara B. Linden, Vincent T. Lee	Catheter-associated urinary tract infection by <i>Pseudomonas aeruginosa</i> is mediated by exopolysaccharide independent biofilms
PII-14	Collyer, Charles	University of Sydney	Jinlong Gao, Daniele Vicari, Nan Li	Type II cleaved gingipain adhesins act in bacterial invasion
PI-15	Connor, Michael	University of Louisville	Michael G. Connor, Yanwen Sun, Donghoon Chung and Matthew B. Lawrenz	RNAi high-throughput screen identifies novel host factors exploited by <i>Y. pestis</i> for intracellular survival
PII-15	Cover, Timothy	Vanderbilt University School of Medicine		Cell-surface topology of outer membrane proteins in <i>Helicobacter pylori</i>
PI-16	Curtis, Meredith	UT Southwestern Medical Center	Sanjeev Narayanan, Vanessa Sperandio	<i>B. thetaiotaomicron</i> , a member of the gut microbiota, exacerbates enteric infection
PII-16	Danilchanka, Olga	Harvard Medical School	Olga Danilchanka, Elena del Tordello, Bryan W. Davies and John J. Mekalanos	Identification of c-AMP-GMP receptors in <i>Vibrio cholerae</i>
PI-17	Davis, Kimberly	Tufts University School of Medicine	Ralph R. Isberg	Community behavior of <i>Y. pseudotuberculosis</i> within microcompartments in host tissue

PII-17	Dirita, Victor	University of Michigan	Michael E. Taveirne, Casey M. Theriot, Jessica M. Beauchamp, William Miller, Craig Parker, Steven Huynh and Victor J. DiRita	The micro biome structure and <i>Campylobacter jejuni</i> transcriptome in naturally-raised chickens
PI-18	Doehrmann, Simon	University of California, San Diego	LaRock CN, Sakoulas G, Zychlinsky A, Nizet V	A function for high-density lipoprotein in innate immune defense against invasive group A streptococcal infection and the pathogen's counterattack
PII-18	Dunstone, Michelle	Monash University	Helen R Saibil, Rodney K Tweten	New insights into the structural transition for MACPF/CDC toxins
PI-19	Edwards, Jennifer	Ohio State University/Nationwide Children's Hospit	Jayde A. Gawthorne, Angela Folley, Trevor J. Edwards	<i>Neisseria gonorrhoeae</i> infection of primary human amniochorionic epithelial cells: a physiologically relevant model to study bacteria-induced adverse pregnancy outcomes
PII-19	Farrow, Melissa	Vanderbilt University Medical Center	Melissa A Farrow, Nicole M Chumbler, Bruno C Trindade, Lynne A Lapierre, Jeffrey A Franklin, David M Aronoff, and D Borden Lacy	<i>Clostridium difficile</i> toxin B-induced necrosis is mediated by the host epithelial cell NADPH oxidase complex
PI-20	Feng, Hanping	University of Maryland	Shan Li, Lianfa Shi, Zhiyong Yang, Yongrong Zhang, Tuxiong Huang, Jeremy Ramsey, Kevin Chen, Numan Oezguen, Tor C. Savidge	Role of enzymatic activities of <i>Clostridium difficile</i> toxin B in its virulence in vitro and in vivo
PII-20	Franco, Irina	Instituto de Tecnologia Quimica e Biologica	L. Jaime Mota	Dissecting the functional regions of VipA, a <i>Legionella pneumophila</i> actin nucleator
PI-21	Gaddy, Jennifer	Vanderbilt University School of Medicine	Jana N. Radin, John T. Loh, M. Blanca Piazuolo, Thomas E. Kehl-Fie, Richard Peek, Jr., Timothy L. Cover, Walter J. Chazin, Eric P. Skaar, Holly M. S. Algood	The host protein calprotectin modulates the <i>Helicobacter pylori</i> Type IV secretion system via zinc sequestration

PII-21	Garza-Mayers, Anna	Harvard Medical School/Massachusetts Gen. Hospital	Marcia B. Goldberg	Mechanisms of ARF6 function in <i>Shigella</i> entry
PI-22	Hammer, Neal	Vanderbilt University Medical Center	James E. Cassat, Michael J. Noto, Lisa J. Lojek, and Eric P. Skaar	Metabolite exchange promotes virulence of antibiotic-resistant <i>Staphylococcus aureus</i> communities
PII-22	Hang, Saiyu	Boston Children's Hospital		The acetate switch of <i>Vibrio cholerae</i> alters the host metabolic homeostasis in <i>Drosophila</i>
PI-23	Hernandez-Doria, Juan	University of Texas Southwestern medical centre	Meredith Curtis ¹ , Eric Martens ² , Elizabeth Cameron ² and Vanessa Sperandio ¹	The shiga toxin (Stx ₂) production by EHEC in the human gut can be influenced by diet and commensal bacteria
PII-23	Hicks, Kevin	University of Washington	Scott Delbecq, Enea Sancho-Vaello, Marie-Pierre Blanc, Lynne R. Prost, Margaret E. Daley, Kornelius Zeth, Rachel E. Klevit, Samuel I. Miller	Restricting conformational flexibility in the PhoQ sensor kinase separates pH and antimicrobial peptide recognition
PI-24	Hoffman, Casandra	University of Virginia	C. Hoffman, M. Gray, Y. Reyes, J. Eby, R. Osicka, L. Bumba, P. Sebo, M. Conover, R. Deora, J. Melvin, P. Cotter, E. Hewlett	Adenylate cyclase toxin: Inhibition of <i>Bordetellae</i> biofilm and interaction with filamentous hemagglutinin
PII-24	Holmes, Randall	University of Colorado School of Medicine	Ju-Sim Kim and Randall K. Holmes, University of Colorado Anschutz Medical Campus, School of Medicine, Department of Microbiology MS 8333, 12800 E. 19th Avenue, Aurora, Colorado, USA	Characterization of Dps (DNA-binding Protein from Starved Cells) as an OxyR-repressed gene in <i>Corynebacterium diphtheriae</i>
PI-25	Jellbauer, Stefan	University of California, Irvine	Janet Z. Liu, Suzanne M. Klaus, James E. Cassat, Robert A. Edwards, Thomas A. Lane, Eric P. Skaar and Manuela Raffatellu	Immunophenotyping of neutrophil subpopulations during <i>Salmonella</i> Typhimurium colitis

PII-25	Jennings, Michael	Griffith University		Phase variation of DNA methyltransferases and epigenetic regulation of virulence in host-adapted bacterial pathogens
PI-26	Jobling, Michael	University of Colorado		Enterotoxins of type II ETEC are prophage-encoded and linked with novel pertussis-like toxins
PII-26	Johnson, Jeremiah	University of Michigan	Victor DiRita	Tryptophan accumulation confers hyperosmotic stress resistance to <i>Campylobacter jejuni</i> during colonization of the chicken gastrointestinal tract
PI-27	Jorgensen, Ine	University of North Carolina Chapel Hill	Edward Miao	Mechanisms of pyroptotic clearance of intracellular bacteria
PII-27	Jorgensen, Rene	Statens Serum Institut	Emil Dedic, Ditte Welner, Hans C. van Leeuwen	Structural characterization of a Fic protein from <i>Clostridium difficile</i>
PI-28	Joubert, Bronwyn	University of KwaZulu Natal	Adele Cheddie, A Willem Sturm	Chlamydia trachomatis produces a secreted toxin
PII-28	Kariisa, Ankunda	University of North Carolina at Chapel Hill	Robert McKee; Alyssa Grube; Rita Tamayo	Opposing cyclic-di-GMP signals control the production of a colonization factor in <i>Vibrio cholerae</i>
PI-29	Kazmierczak, Barbara	Yale University	M. Schniederberend and B. I. Kazmierczak	A role for the flagellar regulator FlhF, the HubP-like protein FimV and cAMP signaling in <i>Pseudomonas aeruginosa</i> transitions to surface-associated growth
PII-29	Kendall, Melissa	University of Virginia School of Medicine	Laura A. Gonyar, David E. Clark, Deborah H. Luzader	Roles and mechanisms of ethanolamine-dependent virulence gene regulation in enterohemorrhagic <i>E. coli</i>
PI-30	Keogh, Damien	Nanyang Technological University	Wei Hong TAY, Swaine CHEN, Kimberly KLINE	<i>Enterococcus faecalis</i> enhances uropathogenic <i>Escherichia coli</i> growth in iron limited biofilm
PII-30	Keyel, Peter	Texas Tech University	Wenbo Wu, Russell Salter	Streptolysin O reveals a requirement for Dnase1L3 during inflammasome activation
PI-31	Kinkead, Lauren	University of Iowa	Justin T. Schwartz, Jake Dillard, Jenna M. McCracken, and Lee-Ann H. Allen	Insights into the mechanism of neutrophil apoptosis inhibition by <i>Francisella tularensis</i>
PII-31	Kokes, Marcela	Duke University	Raphael H. Valdivia	Host and bacterial factors mediate cytoskeletal rearrangements at the surface of the <i>Chlamydia trachomatis</i> pathogenic vacuole

PI-32	Krantz, Bryan	UC Berkeley	Debasis Das, Jennifer M. Colby, Kristin Wucherer	The protein translocase activity of anthrax toxin protective antigen is stereoselective
PII-32	Lawrenz, Matthew	University of Louisville	Michael G. Connor, Amanda R. Pulsifer, Jarrod M. Pennington	Host Rab1B is required for <i>Yersinia pestis</i> intracellular survival
PI-33	Lee, Vincent	University of Maryland at College Park	Kevin Roelofs	Systematic identification of cyclic-di-GMP binding proteins from <i>Vibrio cholerae</i> ORFeome
PII-33	Leslie, Jhansi	University of Michigan	Vincent B. Young	Protection against lethal <i>Clostridium difficile</i> infection by pre-infection with a low virulence strain
PI-34	Levy, Haim	Israel Institute for Biological Research		Anthrax, it's in your head – Toxin independent meningitis in rabbits and guinea pigs
PII-34	Liechti, George	Uniformed Services University (USUHS)	Packiam, M., Kuru, E., VanNieuwenhze, M., Brun, Y.V., Maurelli, A.T.	The 'chlamydial anomaly' resolved: Peptidoglycan biosynthesis and degradation confirmed in <i>Chlamydia trachomatis</i>
PI-35	Lijek, Rebecca	Harvard Medical School	Andrew J. Olive, Michael N. Starnbach	Discovery of novel <i>Chlamydia trachomatis</i> virulence factors using comparative genomics in vivo
PII-35	Lokken, Kristen	University of California-Davis	Jason P. Mooney, Brian P. Butler, Mariana N. Xavier, Jennifer Y. Chau, Nicola Schaltenberg, Ramie H. Begum, Werner Müller, Shirley Luckhart, Renée M. Tsolis	Malaria parasite infection compromises control of systemic non-typhoidal <i>Salmonella</i> infection via IL-10-mediated alteration of myeloid cell function
PI-36	Lopez, Christopher	University of California, Davis	Fabian Rivera-Chavez, Eric Velazquez, Andreas Baumler, Ph.D.	Gasping for Air: Attaching and effacing pathogens respire oxygen on epithelial surfaces
PII-36	Machner, Matthias	National Institutes of Health	Andrew Gaspar, Maria Lucas, Adriana Rojas, Aitor Hierro, and Matthias P. Machner	Mechanism of endosomal avoidance by <i>Legionella pneumophila</i>
PI-37	Marketon, Melanie	Indiana University		Neutrophil targeting during plague infection
PII-37	Mason, Kevin	Research Institute at Nationwide Childrens	Sheryl Justice	<i>Haemophilus</i> responses to host nutritional immunity influences biofilm architecture, bacterial persistence and disease severity

PI-38	Matson, Jyl	University of Toledo		Identification of small molecule inhibitors of the <i>Vibrio cholerae</i> sigma E pathway using high-throughput screening
PII-38	Maynard, Jennifer	University of Texas at Austin	Annalee W. Nguyen, Ellen Wagner, Xianzhe Wang, Edith Acquaye, Joshua R. Laber, Laura Goodfield, William E. Smallridge, Eric T. Harvill	Rational design of immunotherapeutics to treat disease caused by Bordetella
PI-39	McClane, Bruce	University of Pittsburgh School of Medicine		Proteolytic processing and activation of <i>Clostridium perfringens</i> epsilon toxin by small intestinal contents
PII-39	McCluskey, Andrew	Harvard Medical School	R. John Collier	Receptor-directed chimeric toxins created by sortase-mediated protein fusion
PI-40	McIver, Kevin	University of Maryland	Yoann Le Breton, Ashton T. Belew, Emrul Islam, Kayla M. Valdes, Najib El-Sayed	Saturation mutagenesis and identification of core essential genes in the genomes of two divergent group A streptococcal isolates using Tn-seq
PII-40	Mellies, Jay	Reed College	Anand Panchal, Agnes Kim, Jossef Osborn and Yuan Xue	Molecular mechanism of zinc disruption of enteropathogenic <i>Escherichia coli</i> pathogenesis
PI-41	Melnyk, Roman	University of Toronto		Discovery of first generation inhibitors of Toxin B to treat <i>Clostridium difficile</i> disease
PII-41	Melville, Stephen	Virginia Tech	TBD	Proteomic analysis of the inner membranes of dormant and germinating spores of <i>Clostridium perfringens</i> reveals novel aspects of the germination process
PI-42	Merrell, D. Scott	Uniformed Services University	RC Johnson, MW Ellis, JB Lanier, CD Schlett, T cui and DS Merrell	Impact of the nasal micro biome on the development of Staphylococcal skin and soft-tissue infections
PII-42	Miller, Samuel	U of Washington		An essential <i>Salmonella</i> Typhimurium multimeric inner-membrane protein that binds and increases outer membrane cardiolipins

PI-43	Mobley, Harry	University of Michigan Medical School		Measuring bacterial gene expression in <i>E. coli</i> during human urinary tract infection: Novel fitness genes involved in pathogenesis
PII-43	Moreira, Cristiano	UNESP (Sao Paulo State University)	Carmen M. Herrera, Brittany D. Needham, M. Stephen Trent and Vanessa Sperandio	Stress hormone signaling and stress-responses mediate bacterial membrane modifications and virulence.
PI-44	Mozola, Cara	Washington University in St. Louis	N'Goundo Magassa, Michael G. Caparon	A novel cholesterol-insensitive mode of membrane binding by streptolysin O promotes cytolysin-mediated translocation of the co-toxin SPN
PII-44	Nair, Vidhya	UT Southwestern Medical Center at Dallas	Luis H. Franco, Vineetha M. Zacharia, Denise K. Marciano, Hideo Yagita, Beth L. Levine and Michael U. Shiloh	Microfold cells are a critical site of entry and dissemination by <i>Mycobacterium tuberculosis</i>
PI-45	O'Connor, Tamara	Johns Hopkins School of Medicine		<i>Legionella</i> virulence strategies that promote persistence in environmental reservoirs and transmission to humans
PII-45	O'Riordan, Mary	University of Michigan Medical School	B. Abuaita, K. Burkholder, B. Boles, Tod Merkel	The ER stress sensor IRE1alpha licenses bacterial killing through sustained oxidant production
PI-46	Onanuga, Adebola Aderemi	Niger Delta University, Wilberforce Island	Tarilate C. Temedie	Multidrug-resistant intestinal <i>Staphylococcus aureus</i> among self-medicated healthy adults in amassoma, South Southern, Nigeria
PII-46	Ong, Sze Ying	University of Melbourne	Ralf SCHUELEIN, Kaylene SIMPSON and Elizabeth HARTLAND	A genome-wide RNAi screen to identify host factors involved in <i>Legionella pneumophila</i> Dot/Icm effector translocation.
PI-47	Pechous, Roger	UNC @ Chapel Hill	William E. Goldman	Evaluating host/pathogen interactions during primary pneumonic plague
PII-47	Philips, Jennifer	NYU School of Medicine		Ubqin1 mediates cytokine-induced selective autophagy of <i>Mycobacterium tuberculosis</i>
PI-48	Pilla, Danielle	Duke University	Jon A. Hagar, Arun K. Haldar, Ashley K. Mason, Robert K. Ernst, Masahiro Yamamoto, Edward A. Miao, Jorn Coers	Guanylate binding proteins promote caspase-11 dependent pyroptosis in response to cytoplasmic LPS

PII-48	Price, Katherine	Geisel School of Medicine at Dartmouth	Amanda A. Naime and George O'Toole	<i>Pseudomonas aeruginosa</i> rhamnolipids inhibit <i>Streptococcus constellatus</i> biofilm formation in a cystic fibrosis model system
PI-49	Purdy, Georgiana	Oregon Health and Science University		Characterization of Mtb MmpL11 and its contribution to mycobacterial physiology and virulence
PII-49	Reniere, Michelle	University of California, Berkeley	Aaron Whiteley, Daniel Portnoy	Glutathione is required for activation of the master virulence regulator in <i>Listeria monocytogenes</i>
PI-50	Reyes-Robles, Tamara	New York University School of Medicine	Francis Alonzo III and Victor J. Torres	Identification and characterization of dominant-negative <i>Staphylococcus aureus</i> bi-component leukotoxins
PII-50	Rivera-Chavez, Fabian	University of California Davis	Sebastian E. Winter, Christopher A. Lopez, Mariana N. Xavier, Maria G. Winter, Sean-Paul Nuccio, Joseph M. Russell, Richard C. Laughlin, Sara D. Lawhon, Torsten Sterzenbach, Charles L. Bevin	<i>Salmonella</i> uses energy taxis to benefit from intestinal inflammation
PI-51	Rosch, Jason	St Jude Children's Research Hospital		Targeting bacterial cation efflux as a novel antimicrobial strategy
PII-51	Rouha, Harald	Arsanis Biosciences		Neutralization of α -hemolysin and three bi-component leukocidins of <i>Staphylococcus aureus</i> with a single human monoclonal antibody
PI-52	Ruch, Travis	UCSF	Cindy S. Tran, David M. Bryant, Yoni Eran, Keith E. Mostov, and Joanne N. Engel	Host cell polarity proteins participate in innate immunity to <i>Pseudomonas aeruginosa</i> infection
PII-52	Russo, Lisa	Uniformed Services University	A.R. MELTON-CELSA and A.D. O'BRIEN	Oral intoxication and dissemination of Shiga Toxins in mice
PI-53	Sause, William	UC Santa Cruz	Soufiane Aboulhoda, and Karen Ottemann	The <i>Helicobacter pylori</i> protein ImaA tempers the bacterium's interaction with $\alpha 5\beta 1$ integrin and promotes chronic infection.
PII-53	Sebo, Peter	Institute of Microbiology of the ASCR, v.v.i.	Ondrej CERNY, Radim OSICKA, Jiri MASIN, Ladislav BUMBA	<i>Bordetella pertussis</i> adenylate cyclase toxin: How it works

PI-54	Seveau, Stephanie	Ohio State University	E. ARNETT, S. VADIA, C. NACKERMAN, S. OGHUMU, A. SATOSKAR, K.R. McLeish, U. SM, and S. SEVEAU	The pore-forming toxin listeriolysin O is degraded by neutrophil proteases and fails to protect <i>Listeria monocytogenes</i> against intracellular killing
PII-54	Shen, Aimee	University of Vermont	Chloe M. Adams, Brian E. Eckenroth, Emily E. Putnam, Sylvie Doublet	Structural and functional analyses of a protease required for <i>Clostridium difficile</i> spore germination
PI-55	Mao, Yuxin	Cornell University	FoSheng Hsua, Xi Luo, Jiazhang Qiub, Yan-bin Teng, Jianping Jin, Marcus B. Smolka, Zhao-Qing Luo	The Legionella effector SidC defines a unique family of ubiquitin ligases important for bacterial phagosomal remodeling
PII-55	Shi, Xiaoshan	New York University School of Medicine	Marie I. Samanovic, Richard A. Festa, Thomas R. Ioerger, Susan Butler-Wu, James C. Sacchettini, K. Heran Darwin	The copper-responsive RicR regulon contributes to <i>Mycobacterium tuberculosis</i> virulence
PI-56	Siegel, Steven	University of Pennsylvania	Aoife M. Roche, Jeffrey N. Weiser	Influenza promotes pneumococcal growth during co-infection by providing host sialylated substrates as a nutrient source
PII-56	Siegrist, Sloan	UC Berkeley		Coordinate regulation of virulence and cell wall dynamics by an intracellular pathogen
PI-57	Smith, Stephen	Trinity College Dublin	Miajlovic H, Hinton J, Hogkamp K, Rogers TR, MacAogain M.	The response of <i>Escherichia coli</i> ST131 to human serum
PII-57	Stevenson, Brian	University of Kentucky	Brandon Jutras, Will Arnold, Alyssa Antonicello	The DNA/RNA-binding BpuR and SpoVG proteins are global regulators of virulence in the Lyme disease spirochete
PI-58	Stibitz, Scott	CBER/FDA	Qing Chen, Jason Warfel, Tod Merkel	Evolution of pathogens via regulatory changes: A single bp mutation in <i>Bordetella bronchiseptica</i> enables c-di-GMP regulation of Bvg-repressed genes à la <i>B. pertussis</i>

PII-58	Stone, Victoria	UC Santa Cruz	Halie K. Miller, Laura Kwuan, Leah Schwiesow, David L. Bernick, Hector A. Ramirez, James M. Ragle, Patricia P. Chan, Todd M. Lowe	IscR is essential for <i>Yersinia pseudotuberculosis</i> type III secretion and virulence
PI-59	Subtil, Agathe	Institut Pasteur		<i>Chlamydia trachomatis</i> targets the ESCRT machinery
PII-59	Sun, Jim	University of Alabama at Birmingham	Jim Sun, Olga Danilchanka, Mikhail Pavlenok, Alexander Speer, Axel Siroy, Christian Maueröder, Luis E. Muñoz, Martin Herrmann, Christian Berens and Michael Niederweis	CpnT: A novel protein toxin of <i>Mycobacterium tuberculosis</i>
PI-60	Surdel, Matthew	Vanderbilt University	Matthew C. Surdel, Brendan F. Dutter, Devin L. Stauff, Olusegun Aranmolate, Gary A. Sulikowski, and Eric P. Skaar	Nitric oxide synthase is required for the staphylococcal heme stress response
PII-60	Symington, Jane	Washington University in St Louis		ATG16L1 regulates host response to uropathogenic <i>E. coli</i> infection
PI-61	Tan, Shumin	Cornell University	Neelima Sukumar, Alessio Accardi, David G. Russell	A bacterial ClC chloride channel is critical for host colonization by <i>Mycobacterium tuberculosis</i>
PII-61	Thompson, Stuart	Georgia Regents University	Jiaqi Li	Activity of <i>Campylobacter jejuni</i> CsrA is controlled by the flagellar chaperone FliW
PI-62	Tischler, Anna	University of Minnesota	Sarah R. Elliott	<i>Mycobacterium tuberculosis</i> ESX-5 secretion is regulated by phosphate availability
PII-62	Torres, Alfredo	UTMB		Comparative genomics and immunoinformatics approach for the identification of vaccine candidates for enterohemorrhagic <i>Escherichia coli</i> O157:H7
PI-63	Torres, Victor	NYU School of Medicine		Crosstalk between leukotoxins and <i>Staphylococcus aureus</i> pathogenesis

PII-63	Trainor, Elizabeth	Food and Drug Administration	Jason Warfel, Kevin McCabe, Mark Hernandez, Tracy L. Nicholson, Benjamin J. Koestler, Lindsey I. Zimmerman, Vanessa K. Kelly, Christopher M. Waters, and Tod J. Merkel	The role of RisA-activated genes in <i>Bordetella pertussis</i> aerosol survival and transmission
PI-64	Valeri, Maria	Novartis Vaccines	, S. Rossi Paccani, M. Kasendra, A. Pezzicoli, P. Montanari, Annarita Taddei, M. Pizza, L. Serino and M. Soriani	Pathogenic <i>E. coli</i> exploits SsIE mucinase activity to get access to host cell targets
PII-64	Van Der Velden, Adrianus	Stony Brook University	AnnMarie Torres, Joanna Luke, Amy Kullas, Kanishk Kapilashrami, Yair Botbol, Peter Tonge, Emily Chen, Fernando Macian	L-Asparaginase II produced by <i>S. Typhimurium</i> inhibits T cell responses through hydrolysis of L-asparagine and suppression of metabolic reprogramming
PI-65	Wardenburg, Juliane	University of Chicago	Vivian M. Choi, Julien Herrou, Sean Crosson and Juliane Bubeck Wardenburg*	Discovery of frangipani, a novel toxin-activating protease in <i>Bacteroides fragilis</i> TBD
PII-65	Warfel, Jason	Food and Drug Administration	Lindsey I. Zimmerman, Tod J. Merkel	<i>Bordetella pertussis</i> pathogenesis and protective immunity in a nonhuman primate model
PI-66	Whiteley, Aaron	University of California, Berkeley	Daniel A. Portnoy	Genetic Determinants of c-di-AMP essentiality in <i>Listeria monocytogenes</i>
PII-66	Winter, Sebastian	UT Southwestern Medical Center		Host-derived nitrate boosts growth of <i>E. coli</i> in the inflamed gut
PI-67	Withey, Jeffrey	Wayne State University School of Medicine		<i>Vibrio cholerae</i> transmission and pathogenesis in zebrafish
PII-67	Peter Sebo	Institute of Microbiology of the ASCR, v.v.i. (Academy of Sciences of the Czech Republic)		<i>Bordetella</i> adenylate cyclase toxin preferentially binds non-activated complement receptor 3 outside of its I-domain and blocks iC3b-activated Syk signaling through elevation of cAMP

PI-68	Dara Frank	Medical College of Wisconsin	Jenifer Coburn, Tamara Maier, Monika Casey, Lavinia Padmore, Hiromi Sato and Dara W. Frank	Characterization of a Reproducible and Quantitative Infection Model of <i>Dermacentor Variabilis</i> with the Live Vaccine Strain of <i>Francisella tularensis</i>
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Conference Registration List

Microbial Toxins & Pathogenicity

Mechanisms that Govern Bacterial Disease

Gordon Research Conference

July 20-25, 2014

Waterville Valley Resort, Waterville Valley, NH

Chair: Michele Swanson

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