

出國報告（出國類別：國際會議）

## 急性呼吸道感染生物學

服務機關：國防醫學院微免所

姓名職稱：莊依萍助理教授

派赴國家：美國

出國期間：2016/02/21-2016/02/26

報告日期：2016/03/24

## 摘要

科技部計畫 (MOST 104-2320-B-016-017-)補助參加 2016 Gordon Research Conference “Biology of Acute Respiratory Infection”，發表論文 “The role of *glpQ2* gene in a murine model of secondary pneumococcal pneumonia”。摘要如下:肺炎鏈球菌常在續發性肺炎的病人的肺中被分離出來，但其致病機轉常被忽略，多數研究只著重在病毒與宿主的相互關係。近幾年由肺炎鏈球菌感染引發的複雜性肺炎的比例節節高升，特別是血清型 19A，但病例中是否存在流感病毒卻沒有被深入探討。我們在之前的研究中發現一個致病基因 *glpQ2*與複雜性肺炎菌株的相關性很高，主要促進磷酸膽鹼表現在細菌表面。由於磷酸膽鹼的受器，PAFR，在病毒感染後的呼吸道表皮細胞有高表現量，因此猜測流感病毒可能與複雜性肺炎的嚴重程度有關。本研究建立了一流感病毒後細菌感染的小鼠模式，發現 *glpQ2*在這個模式中可以帮助肺炎鏈球菌附著，移生，且造成較為嚴重的組織破壞。進一步發現，*glpQ2*基因的存在使得肺炎鏈球菌感染後活化高量 IL-1 $\beta$ ，也使得肺沖洗液中 thrombin活性增強。流感病毒感染後 7 天再感染肺炎鏈球菌會活化 IL-33釋出於肺沖洗液，並降低 IFN- $\gamma$  表現量，暗示了肺炎鏈球菌在此時感染可能活化了組織耐受性，促進組織修補並且避免免疫帶來的傷害。但組織耐受性的活化程度與 *glpQ2*基因並沒有關聯。細菌表面高表現磷酸膽鹼會附著較高量的 CRP蛋白質，可能因此活化補體，使得鄰近組織細胞受到傷害。但肺炎鏈球菌先與 CRP附著後再感染小鼠並不會使得肺沖洗液中 LDH酵素增加，暗示 CRP高附著並不會因此增加組織傷害。總結以上實驗結果，*glpQ2*的表現會促使細菌移生，活化組織 IL-1 $\beta$ 產生，但與 CRP引發的組織破壞沒有關連性。

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## 一、目的

了解急性肺部發炎的致病機轉及相關生物學。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德州蓋維斯頓所舉辦的急性呼吸道感染生物學會議(Biology of Acute Respiratory Infection)。此行臺灣有兩人參加，另一位是台大醫學院王萬波教授，我們分別搭機抵達會場參與學術研討會。此行搭乘美國聯合航空經由日本東京轉機的班機到美國喬治布希洲際機場，到達機場後搭乘由會場安排的付費接駁車接送到會議所在地參加當天晚上開始的第一場研討會，主題為肺的免疫系統-辨認致病菌與細胞參與反應(Pathogen recognition and cellular participation in lung immunity: novel mechanisms)。

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 2月 26日早上完滿結束，並由會場安排的接駁車送至美國喬治布希洲際機場搭乘美國聯合航空經由日本東京轉機的班機於 2月 27晚間回到台灣。

## 三、報告時間

2016/2/22-23以海報方式進行報告。

## 四、報告過程

海報張貼時間為期兩天， 2/22-23下午必須站在海報前與與會者討論，約有 8-10位研究者在這段期間與我輪流進行討論。簡單介紹 glpQ2在肺炎鏈球菌的功能及參與致病機轉的能力後，帶入 glpQ2基因所活化的磷酸膽鹼還會與 CRP鍵結，間接引發免疫系統攻擊的矛盾處切入主題，猜測流感病毒後二次細菌性肺炎的模式也許可以解釋這個衝突。假設認為流感病毒的感染會降低吞噬細胞清除細菌的能力，並

提高 CRP 的濃度。此時 CRP 的鍵結會活化補體，使得鄰近細胞造成組織傷害但不會對革蘭氏陽性細菌造成殺傷力。因此改變感染模式後，同樣證明 glpQ2 的致病能力，但實驗結果同時顯示利用 CRP 預先處理後的肺炎鏈球菌其致病能力與未處理的肺炎鏈球菌並無差異。討論過程中，我們針對實驗結果的幾個衝突點作了假設，也設定了幾個需要釐清的目標。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

### 【心得】

此次之會議共分為 7 個 sections，分別為 Pathogen recognition and cellular participation in lung immunity: novel mechanisms, Novel effector antimicrobial mechanisms, Control of injury and repair in acute respiratory infection, Molecular mechanisms of microbial pathogenesis, The lung microbiome in health and disease, Evolving concepts in immune memory of the lung, Emerging microbial pathogens: animal modeling to human disease, The host response in lung infection: genes and environment。參加本次會議是希望能更了解感染發生時，呼吸系統與致病菌的角色，藉以建構出時間與空間的概念，對呼吸系統的生物學有更多了解。會議中探討了人類微生物群系(microbiome)在黏膜系統的組成對免疫系統對抗致病菌的貢獻，會議中一致同意肺已不再是“無菌”的環境，從中，有學者提出了 pathobiotic 的概念，認為肺部受到感染並非特定致病菌造成，而是複雜的微生物群系改變了肺部環境進而發展成疾病，分別有學者針對肥胖，糖尿病，呼吸道病毒的存在，以及過敏提出了小鼠模式，證實其影響對致病菌的耐受性。會議中也藉由對不同細胞的功能提出新的了解，可以突破我們在疫苗的研究上的困惑：1. 肺上皮細胞辨認致病菌的重要性：除了釋放趨化素使白血球聚集對抗細菌外，也可藉以活化抗微生物肽清除病毒的全

新概念顛覆了教科書上的已知資訊；2.樹突狀細胞的不同亞群除了可以引發後天免疫，也活化了 ILC，並證實 ILC在疫苗發展中的重要性，拓寬我們對肺的免疫反應的了解；3.年長族群在免疫細胞群中 myeloid cell明顯增加，釋放 pro-inflammatory cytokine的能力明顯提高，但功能確是降低，證實 TNF的不斷釋放，反而製造了一個缺失的 bone marrow environment，而老化族群位在黏膜系統的微生物群系竟然是罪魁禍首；4.已知代謝過程中的 metabolite可以調控 epigenetic，但新的研究進展告訴我們，這樣的調控可以幫助 innate cell的“記憶性”，使其在疫苗施打後具有“免疫性”，為已知的免疫領域增添新穎性；5. Sessile alveolar macrophage在肺中遇到致病菌後會與肺上皮細胞交流，改變鈣離子傳輸方式，與急性肺損傷的發展有直接關係；6.此外，alveolar macrophage與 recruited macrophage具有不同表面蛋白質表現，在功能上扮演陰與陽的角色令我大開眼界；7. Macrophage的 autophagy與 inflammasome的功能在會議中被提出合併的角色，學者指出一個“TRIMOSOME”的概念，認為 inflammasome辨認致病菌後，將訊息傳遞給 TRIM及 SRR，可以有效清除胞內致病菌，為免疫的分子生物學擴展新領域。在本次會議中我看到很多目前在肺部感染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肺部生物學相關的最新研究進展。透過演講者的研究內容，修正了我們實驗室即將進行的實驗流程，並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。本次會議中所發表的海報主題即為實驗室的研究主題之一，探討二次細菌性肺炎的細菌致病機轉，而此次會議中，很高興遇到許多前輩與我分享研究往前進行的可能性，拓展了研究思維。

這是我第二次參加 Gordon research conference。根據第一次的經驗，這是一個跟以往參加在歐洲舉行的大型會議不同的主題型會議，來自世界各地的研究人員都聚焦在肺部生物學，雖然專長各有不同，但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。只是這次與上次明顯不同的感覺到，許多演講者雖然在這樣的保護措施下仍然發表有限的實驗結果，不禁感嘆在科學界競爭的壓力。

### 【建議】

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)。

# Biology of Acute Respiratory Infection

*Gordon Research Conference*

Host-Pathogen Interactions in Acute Respiratory Tract Infection: From Basic Mechanisms to Human Disease

February 21-26, 2016

Hotel Galvez

Galveston, TX

Chairs: Theodore J. Standiford & Peter Openshaw

Vice Chairs: Chad Steele & Dawn Bowdish

## Contributors

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## Meeting Program

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### Sunday

|                   |                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------|
| 4:00 pm - 8:00 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 | <b>Pathogen Recognition and Cellular Participants in Lung Immunity: Novel Mechanisms</b>                           |
|                   | Discussion Leader: <b>Chad Steele</b> (University of Alabama at Birmingham, USA)                                   |
| 7:40 pm - 7:45 pm | Opening Remarks                                                                                                    |
| 7:45 pm - 8:10 pm | <b>Bart Lambrecht</b> (Ghent University - VIB, Belgium)<br>"Dendritic Cell Subsets in Respiratory Viral Infection" |
| 8:10 pm - 8:20 pm | Discussion                                                                                                         |

- 8:20 pm - 8:45 pm **Samithamby Jeyaseelan** (Louisiana State University, USA)  
"Nod Like Receptors in Bacterial Lung Infection"
- 8:45 pm - 8:55 pm Discussion
- 8:55 pm - 9:20 pm **Jean-Claude Sirard** (Institut Pasteur de Lille / Inserm, France)  
"Type 3 Innate Lymphoid Cells in Antibacterial Immunity"
- 9:20 pm - 9:30 pm Discussion

## Monday

- 7:30 am - 8:30 am Breakfast
- 8:30 am Group Photo
- 9:00 am - 12:30 pm **Novel Effector Antimicrobial Mechanisms**  
Discussion Leader: **Scott Evans** (University of Texas MD Anderson Cancer Center, USA)
- 9:00 am - 9:30 am **Vojo Deretic** (University of New Mexico Health Sciences Center, USA)  
"Autophagy for Elimination of Intracellular Pathogens"
- 9:30 am - 9:40 am Discussion
- 9:40 am - 10:10 am **Paul Kubes** (University of Calgary, Canada)  
"Intravascular Immunity in Lung Host Defense"
- 10:10 am - 10:20 am Discussion
- 10:20 am - 10:50 am Coffee Break
- 10:50 am - 11:20 am **Christopher Evans** (University of Colorado, USA)  
"Muc Genes in Airway Host Defense"
- 11:20 am - 11:30 am Discussion
- 11:30 am - 11:45 am **Kong Chen** (University of Pittsburgh, USA)  
"Epithelial IL-17R Is Required for Pulmonary Host Defense Against *Klebsiella pneumoniae*"
- 11:45 am - 11:50 am Discussion
- 11:50 am - 12:05 pm **Donald Davidson** (University of Edinburgh, United Kingdom)  
"Cathelicidins Have Direct Antiviral Activity Against Respiratory Syncytial Virus *In Vitro* and Protective Function *In Vivo* in Mice and Humans"
- 12:05 pm - 12:10 pm Discussion
- 12:10 pm - 12:25 pm **Krishnendu Chakraborty** (University of Pittsburgh School of Medicine, USA)  
"PPAR Gamma SUMOylation by Oxidized Phospholipid Blocks IL-10 Production Promoting Non-Resolving Pneumonia"
- 12:25 pm - 12:30 pm Discussion

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|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | <b>Control of Injury and Repair in Acute Respiratory Infection</b>                                                                               |
|                   | Discussion Leader: <b>Samithamby Jeyaseelan</b> (Louisiana State University, USA)                                                                |
| 7:30 pm - 8:00 pm | <b>Jahar Bhattacharya</b> (Columbia University, USA)<br>"Lung Macrophage-Epithelial Cell Interactions Regulate Alveolar Inflammation"            |
| 8:00 pm - 8:10 pm | Discussion                                                                                                                                       |
| 8:10 pm - 8:40 pm | <b>Hal Chapman</b> (University of California, San Francisco, USA)<br>"Lineage-Negative Progenitor Cells in Lung Repair Post Influenza Pneumonia" |
| 8:40 pm - 8:50 pm | Discussion                                                                                                                                       |
| 8:50 pm - 9:20 pm | <b>Amanda Jamieson</b> (Brown University, USA)<br>"Stress Management: Host Resilience to Respiratory Infections"                                 |
| 9:20 pm - 9:30 pm | Discussion                                                                                                                                       |

## Tuesday

|                     |                                                                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7:30 am - 8:30 am   | Breakfast                                                                                                                                                                       |
| 9:00 am - 12:30 pm  | <b>Molecular Mechanisms of Microbial Pathogenesis</b>                                                                                                                           |
|                     | Discussion Leader: <b>Alice Prince</b> (Columbia University, USA)                                                                                                               |
| 9:00 am - 9:30 am   | <b>Anders Hakansson</b> (Lund University, Sweden)<br>"Transition from Biofilm Colonization to Respiratory Infections with <i>Streptococcus pneumoniae</i> "                     |
| 9:30 am - 9:40 am   | Discussion                                                                                                                                                                      |
| 9:40 am - 10:10 am  | <b>Pradeep Singh</b> (University of Washington School of Medicine, USA)<br>"Evolution in Isolated Lung Regions Drives Bacterial Diversification in Human Infections"            |
| 10:10 am - 10:20 am | Discussion                                                                                                                                                                      |
| 10:20 am - 10:50 am | Coffee Break                                                                                                                                                                    |
| 10:50 am - 11:20 am | <b>Andreas Wack</b> (Francis Crick Institute, United Kingdom)<br>"Pathogenic Role of Type I Interferons in Acute Influenza Infection"                                           |
| 11:20 am - 11:30 am | Discussion                                                                                                                                                                      |
| 11:30 am - 11:45 am | <b>Carolina Lopez</b> (University of Pennsylvania, USA)<br>"Defective Viral Genomes as Primary Danger Signals During Respiratory Syncytial Virus Infections in Mice and Humans" |
| 11:45 am - 11:50 am | Discussion                                                                                                                                                                      |

|                     |                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:50 am - 12:05 pm | <b>Michael Otto</b> (National Institute of Allergy and Infectious Diseases, NIH, USA)<br>"Key Role for Alpha-Toxin in Fatal Pneumonia Caused by <i>Staphylococcus aureus</i> Sequence Type 398" |
| 12:05 pm - 12:10 pm | Discussion                                                                                                                                                                                      |
| 12:10 pm - 12:25 pm | <b>Bret Sellman</b> (MedImmune, LLC, USA)<br>" <i>S. aureus</i> Alpha Toxin Potentiates Gram-Negative Lung Infections by Altering Macrophage Killing Function"                                  |
| 12:25 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   | <b>The Lung Microbiome in Health and Disease</b><br>Discussion Leader: <b>David Corry</b> (Baylor College of Medicine, USA)                                                                     |
| 7:30 pm - 8:00 pm   | <b>Benjamin Marsland</b> (University Hospital of Lausanne, Switzerland)<br>"Influence of the Gut Microbiome on Lung Immunity"                                                                   |
| 8:00 pm - 8:10 pm   | Discussion                                                                                                                                                                                      |
| 8:10 pm - 8:40 pm   | <b>Robert Dickson</b> (University of Michigan, USA)<br>"The Forgotten Organ: Critical Illness and the Microbiome"                                                                               |
| 8:40 pm - 8:50 pm   | Discussion                                                                                                                                                                                      |
| 8:50 pm - 9:20 pm   | <b>Michael Surette</b> (McMaster University, Canada)<br>"The Changing Microbiome with Age and Susceptibility to Respiratory Infections"                                                         |
| 9:20 pm - 9:30 pm   | Discussion                                                                                                                                                                                      |

## Wednesday

|                     |                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7:30 am - 8:30 am   | Breakfast                                                                                                                                               |
| 9:00 am - 12:30 pm  | <b>Evolving Concepts in Immune Memory of the Lung</b><br>Discussion Leader: <b>Bart Lambrecht</b> (Ghent University - VIB, Belgium)                     |
| 9:00 am - 9:30 am   | <b>Christopher Chiu</b> (Imperial College London, United Kingdom)<br>"Role of Airway-Surveilling Memory CD8+ T Cells in Mucosal Protection Against RSV" |
| 9:30 am - 9:40 am   | Discussion                                                                                                                                              |
| 9:40 am - 10:10 am  | <b>Joseph Mizgerd</b> (Boston University School of Medicine, USA)<br>"Heterotypic Immunity in the Lung"                                                 |
| 10:10 am - 10:20 am | Discussion                                                                                                                                              |
| 10:20 am - 10:50 am | Coffee Break                                                                                                                                            |

- 10:50 am - 11:20 am **Andre Ballesteros-Tato** (University of Alabama at Birmingham, USA)  
"Foxp3+ T Follicular Regulatory Cell Responses During Influenza Virus Infection"
- 11:20 am - 11:30 am Discussion
- 11:30 am - 11:45 am **Kris Lambert Emo** (University of Rochester, USA)  
"CD8+ T Cell Migration During Influenza Infection"
- 11:45 am - 11:50 am Discussion
- 11:50 am - 12:05 pm **Juliet Morrison** (University of Washington, USA)  
"Identification of Immune Cell Types that Associate with Severe Influenza Disease or Recovery in Mice Using Digital Cell Quantification"
- 12:05 pm - 12:10 pm Discussion
- 12:10 pm - 12:25 pm **Jua Iwasaki** (Imperial College London, United Kingdom)  
"Transcriptomic and Proteomic Analysis Reveal Novel Immune Signatures in the Host Response to Influenza Infection in a Mouse Model"
- 12:25 pm - 12:30 pm Discussion
- 12:30 pm Lunch
- 1:30 pm - 4:00 pm Free Time
- 4:00 pm - 6:00 pm Poster Session
- 6:00 pm Dinner
- 7:00 pm - 7:30 pm Business Meeting  
*Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences; Election of the Next Vice Chair*
- 7:30 pm - 9:30 pm **Emerging Microbial Pathogens: Animal Modeling to Human Disease**  
Discussion Leader: **Dawn Bowdish** (McMaster University, Canada)
- 7:30 pm - 8:00 pm **Stacey Schultz-Cherry** (St. Jude Children's Research Hospital, USA)  
"Imaging of Influenza Virus Transmission and Protection"
- 8:00 pm - 8:10 pm Discussion
- 8:10 pm - 8:40 pm **Matthew Frieman** (University of Maryland, USA)  
"Pathogenesis and Therapeutic Development for Emerging Coronaviruses"
- 8:40 pm - 8:50 pm Discussion
- 8:50 pm - 9:20 pm **Frank Deleo** (National Institute of Allergy and Infectious Diseases, NIH, USA)  
"Neutrophil Interactions with Carbapenem-Resistant *Klebsiella pneumoniae*"
- 9:20 pm - 9:30 pm Discussion

## Thursday

|                     |                                                                                                                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7:30 am - 8:30 am   | Breakfast                                                                                                                                                                                                                   |
| 9:00 am - 12:30 pm  | <b>The Host Response in Lung Infection: Genes and Environment</b><br>Discussion Leader: <b>Joseph Mizgerd</b> (Boston University School of Medicine, USA)                                                                   |
| 9:00 am - 9:30 am   | <b>Michael Ciancanelli</b> (Rockefeller University, USA)<br>"Novel Mutations Underlying Susceptibility to Severe Influenza Disease in Humans"                                                                               |
| 9:30 am - 9:40 am   | Discussion                                                                                                                                                                                                                  |
| 9:40 am - 10:10 am  | <b>Benjamin Suratt</b> (University of Vermont, USA)<br>"Obesity Related Alterations in Lung Host Defense"                                                                                                                   |
| 10:10 am - 10:20 am | Discussion                                                                                                                                                                                                                  |
| 10:20 am - 10:50 am | Coffee Break                                                                                                                                                                                                                |
| 10:50 am - 11:20 am | <b>David Corry</b> (Baylor College of Medicine, USA)<br>"Airway Mycosis and the Influence on Lung Immune Responses"                                                                                                         |
| 11:20 am - 11:30 am | Discussion                                                                                                                                                                                                                  |
| 11:30 am - 11:45 am | <b>Rachel Temple</b> (Geisel School of Medicine, Dartmouth College, USA)<br>"When Signals Get Crossed: The Consequences of Dual Allergen- and Influenza-Mediated Signaling in Mast Cells"                                   |
| 11:45 am - 11:50 am | Discussion                                                                                                                                                                                                                  |
| 11:50 am - 12:05 pm | <b>Scott Evans</b> (University of Texas MD Anderson Cancer Center, USA)<br>"Synergistic Toll-Like Receptor Signaling in Lung Epithelial Cells Induces Mitochondrial Reactive Oxygen Species-Dependent Antiviral Resistance" |
| 12:05 pm - 12:10 pm | Discussion                                                                                                                                                                                                                  |
| 12:10 pm - 12:25 pm | <b>Robert Couch</b> (University of Texas Medical Branch, USA)<br>"Both SARS and MERS Coronavirus Vaccinations Can Lead to Immunopathology when Challenged with Infectious Virus"                                            |
| 12:25 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   | <b>Prevention of Lung Infection: Novel Vaccination Approaches</b><br>Discussion Leader: <b>Jay Kolls</b> (University of Pittsburgh School of Medicine, USA)                                                                 |
| 7:30 pm - 8:00 pm   | <b>Mihai Netea</b> (Radboud University Nijmegen Medical Centre, The Netherlands)<br>"Trained Innate Immunity"                                                                                                               |
| 8:00 pm - 8:10 pm   | Discussion                                                                                                                                                                                                                  |

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|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:10 pm - 8:40 pm | <b>Dawn Bowdish</b> (McMaster University, Canada)<br>"Immunosenescence and Novel Vaccination Strategies in the Elderly"                             |
| 8:40 pm - 8:50 pm | Discussion                                                                                                                                          |
| 8:50 pm - 9:20 pm | <b>Alfredo Torres</b> (University of Texas Medical Branch, USA)<br>"Mucosal Vaccination Using Attenuated Bacterial Strains of <i>Burkholderia</i> " |
| 9:20 pm - 9:30 pm | Discussion                                                                                                                                          |

## Friday

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

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Funding for this conference was made possible [in part] by 1R13AI124513 - 01 from the National Institute of Allergy and Infectious Diseases. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government.

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## Poster List

Display your poster at the board # and session indicated below. If your name does not appear in the list, display your poster at the next available board in the session which seems most appropriate, or consult with the conference chairs about which session to present in. There is plenty of space available for additional posters.

### Poster Session I (Monday/Tuesday)

| # | Name                    | Organization                                      | Co-Authors                                                                                                                                                   | Poster Title                                                                                                                                         |
|---|-------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Ahn, Danielle S         | Columbia University Medical Center                | Hernan Peñaloza, Matthew Wickersham, Susan Bueno, Alice Prince                                                                                               | Klebsiella pneumoniae ST258 recruit monocytic-myeloid derived suppressor cells (M-MDSCs) and dominate the immune response to in bacterial pneumonia. |
| 2 | Broquet, Alexis         | EA3826                                            | Alexis Broquet, Cédric Jacqueline, Marion Davieau, Jérôme Martin, Régis Josien, Karim Asehnoune                                                              | Interleukin-22 negatively regulates neutrophil chemo-attractant CXCL2 during Pseudomonas aeruginosa pneumonia in mice                                |
| 3 | Blevins, Lance K        | Wake Forest School of Medicine                    | John T. Wren, Beth C. Holbrook, Sarah L. Hayward, W. Edward Swords, Griffith D. Parks, and Martha A. Alexander-Miller                                        | COINFECTION WITH STREPTOCOCCUS PNEUMONIAE NEGATIVELY MODULATES THE SIZE AND COMPOSITION OF THE ONGOING INFLUENZA-SPECIFIC CD8+ T CELL RESPONSE       |
| 4 | Bosteels, Cédric        | VIB Inflammation Research Center                  | Cedric Bosteels, Katrijn Neyt, James J. Moon, Martin Guillems, Mary J. van Helden, Bart N. Lambrecht                                                         | Distinct subsets of lung dendritic cells control adaptive immunity to pneumonia virus of mice (PVM)                                                  |
| 5 | Britto, Clemente J      | Yale University                                   | Clemente J. Britto M.D., Naiqian Niu PhD., PhD. Lauren E. Cohn M.D., Charles S. Dela Cruz M.D.                                                               | Host protective airway protein SPLUNC1 is regulated by respiratory infections and TLR signaling                                                      |
| 6 | Carbonetti, Nicholas H  | University of Maryland School of Medicine         |                                                                                                                                                              | Sphingosine-1-phosphate receptors ligands as novel therapeutics for pertussis                                                                        |
| 7 | Chakraborty, Krishnendu | University of Pittsburgh School of Medicine       | Krishnendu Chakraborty, Mahesh Raundhal, Christina Morse, Anupriya Khare, Rachael Huff, Rama K. Mallampalli, Valerian E. Kagan, Anuradha Ray, and Prabir Ray | SUMOylation of PPAR-gamma by oxidized phospholipid blocks IL-10 production promoting non-resolving pneumonia                                         |
| 8 | Chen, Kong              | University of Pittsburgh                          | Giraldina Trevejo-Nunez, Emily E. Way, Waleed Elsegeiny, David M. Ricks, Abhishek V. Garg, Sarah L. Gaffen, Jay K. Kolls                                     | Epithelial IL-17R is required for pulmonary host defense against K. pneumoniae                                                                       |
| 9 | Chronos, Zisis C        | Pennsylvania State University College of Medicine | E. Scott Halstead, Michael L. Davies, Todd M. Umstead, Weichao Guo, Sanmei Hu, Roland Myers, Mitchell White, Kevan Hartshorn,                                | GM-CSF confers protection from severe influenza infection through accelerated recovery of lung homeostasis                                           |

|    |                    |                                               |                                                                                                                                                   |                                                                                                                                                |
|----|--------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 | Chuang, Yi-Ping    | National Defense Medical Center               | Yi-Ping Chuang*, Min-Jheng Lu, Ching-Len Liao, Huey-Kang Sytwu                                                                                    | The role of glpQ2 gene in a murine model of secondary pneumococcal pneumonia                                                                   |
| 11 | Davidson, Donald J | University of Edinburgh                       |                                                                                                                                                   | Cathelicidins have direct antiviral activity against respiratory syncytial virus in vitro and protective function in vivo in mice and humans.  |
| 12 | Evans, Scott E     | University of Texas MD Anderson Cancer Center | C. T. Kirkpatrick, Y. Wang, V. Kulkarni, H. H. Ware, A. K. Plumer, M. M. Leiva, S. E. Evans                                                       | Synergistic toll-like receptor signaling in lung epithelial cells induces mitochondrial reactive oxygen species-dependent antiviral resistance |
| 13 | Gal, Yoav          | IIBR                                          |                                                                                                                                                   | TBA                                                                                                                                            |
| 14 | Garth, Jaleesa     | University of Alabama at Birmingham           | Kristen Reeder, Melissa Gessner, PhD, Matthew Godwin, MS, Jonathan Blackburn, & Chad Steele, PhD                                                  | Specific IL-1/TLR family signaling regulates IL-22 during invasive lung fungal infection                                                       |
| 15 | Halstead, E. Scott | Penn State Hershey Children's Hospital        | Michael L. Davies, Todd M. Umstead, Weichao Guo, Sanmei Hu, Roland Myers, Mitchell White, Kevan Hartshorn, Zissis C. Chronos                      | GM-CSF confers protection from severe influenza infection through accelerated recovery of lung homeostasis                                     |
| 16 | Hohl, Tobias       | Memorial Sloan-Kettering Cancer Center        | Shinji Kasahara, Anupam Jhingran                                                                                                                  | GM-CSF signaling regulates neutrophil antifungal activity and the oxidative burst during respiratory fungal infection                          |
| 17 | Hook, Jaime        | Columbia University Medical Center            | Jahar Bhattacharya                                                                                                                                | Optical studies of alveolar injury due to Staphylococcus infection                                                                             |
| 18 | Iwasaki, Jua       | Imperial College London                       | Simon Clare, Katherine Harcourt, Cordelia Brandt, Jennifer L Hill, 3i Investigators, David J Adams, Gordon Dougan, Adrian C Hayday, Clare M Lloyd | Transcriptomic and Proteomic Analyses Reveal Novel Immune Signatures in the Host Response to Influenza Infection in a Mouse Model              |
| 19 | Kim, Yuri          | Boston University School of Medicine          | K.L. Hilliard, E. Allen, K.E. Traber, E.M. Symer, M.R. Jones, J.P. Mizgerd, L.J. Quinton                                                          | Hepatic NF- $\kappa$ B RelA Limits Systemic Consequences of Pneumonia, Sepsis, or NKT Cell Activation                                          |
| 20 | Kim, John          | University of Calgary                         | Yuefei Lou, Esther Lee, John Podstawka, Paul Kubes, and Bryan Yipp                                                                                | Pulmonary B-cells regulate neutrophil apoptosis in homeostasis                                                                                 |
| 21 | Lee, Esther KS     | University of Calgary                         | John Kim, Chris Mody, Bryan Yipp                                                                                                                  | Leukotrienes Mediate Rapid Lung Neutrophil Clustering During candidemia in vivo                                                                |
| 22 | Penaloza, Hernan   | Pontificia Universidad Catolica de Chile      | Danielle Ahn, Matthew Wickersham, Dane Parker, Susan Bueno, Alice Prince                                                                          | Klebsiella pneumoniae ST258 fails to activate Ca <sup>2+</sup> /calpain-dependent killing mechanisms                                           |
| 23 | Pilon, Aprile L    | Therabron Therapeutics, Inc                   | TBD                                                                                                                                               | Modification of CC10 protein by ROS during acute lung injury                                                                                   |
| 24 | Reeder, Kristen M  | University of Alabama at Birmingham           | Matthew Godwin, Carlene Zindl, Ph.D., Chad Dunaway, M.S., Casey Weaver, Ph.D., Chad Steele, Ph.D.                                                 | Shaping the IL-22 response during acute fungal exposure                                                                                        |

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|----|---------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 25 | Riquelme, Sebastian A     | Columbia University                   | Kipyegon Kitur, Benjamin D. Hopkins, Andrew L. Wolfe, Ramon Parsons and Alice Prince                                                                                                                                                                                        | PTEN–CFTR interactions contribute to <i>P. aeruginosa</i> killing                                                                                              |
| 26 | Robinson, Keven           | University of Pittsburgh              | K.M. Robinson <sup>1</sup> , M.E. Clay <sup>2</sup> , K. Ramanan <sup>2</sup> , K.J. McHugh <sup>2</sup> , J.F. Alcorn <sup>2</sup> , <sup>1</sup> University of Pittsburgh - Pittsburgh, PA/US, <sup>2</sup> Children's Hospital of Pittsburgh of UPMC - Pittsburgh, PA/US | IL-33 Protects Against Influenza-associated Bacterial Super-infection                                                                                          |
| 27 | Ruckwardt, Tracy J        | National Institutes of Health         | Kaitlyn M. Morabito, Barney S. Graham                                                                                                                                                                                                                                       | Neonatal mice possess two phenotypically and functionally distinct lung-migratory CD103+ dendritic cell populations following respiratory infection            |
| 28 | Stulik, Lukas             | Arsanis Biosciences                   | Hudcove J, Zerbs M, Steinhauser J, Craven DE, Nagy G, Nagy E.                                                                                                                                                                                                               | Dissecting and circumventing the low efficiency of antibiotics on the colonization of the lower airways in ventilated patients by <i>Staphylococcus aureus</i> |
| 29 | Traber, Katrina E         | Boston University School of Medicine  | Kristie L. Hilliard, Eri Allen, Yuri Kim, Elise M. Symer, Matthew R. Jones, Joseph P. Mizgerd, and Lee J. Quinton                                                                                                                                                           | Differential Cell Source and Regulation of IL-6 Family Cytokines during Pneumonia                                                                              |
| 30 | Trevejo-Nunez, Giralдина  | University of Pittsburgh              |                                                                                                                                                                                                                                                                             | Interleukin 22 controls <i>Streptococcus pneumoniae</i> extrapulmonary dissemination by signaling through the liver.                                           |
| 31 | Van Den Steen, Philippe E | KU Leuven - University of Leuven      | Philippe E. Van den Steen, Thao-Thy Pham, Katrien Deroost, Natacha Lays, Mina Komuta, Evelin Schwarzer, Chris J. Janse, Ghislain Opdenakker                                                                                                                                 | Pathogenesis of malaria-associated acute respiratory distress syndrome, a major deadly complication of malaria                                                 |
| 32 | Wang, Jieru               | University of Pittsburgh              | Hongbo Zhang, John F. Alcorn, Jay K. Kolls                                                                                                                                                                                                                                  | Thymic stromal lymphopoietin regulates lung defense against acute respiratory infection                                                                        |
| 33 | Yoon, Joo-Heon            | Yonsei University College of Medicine | Jae-Chan Ryu, Ji-Hwan Ryu                                                                                                                                                                                                                                                   | NOX2 regulates neutrophil pyroptosis in lung infection by <i>Pseudomonas aeruginosa</i>                                                                        |

## Poster Session II (Wednesday/Thursday)

| #  | Name                   | Organization                                               | Co-Authors                                                                                                                | Poster Title                                                                                                                                                                                            |
|----|------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Coleman, Christopher M | University of Maryland School of Medicine                  | Jeanne M Sisk, Sarah E Beck, Krystal L Matthews, Thiagarajan Venkataraman, Christos A Kryatsous and Matthew B Frieman     | Mouse model reveals roles of T cells and macrophages in pathogenesis of Middle East respiratory syndrome coronavirus                                                                                    |
| 2  | Couch, Robert B        | Univ of Texas Medical Branch                               | Anurodh Shanker Agrawal, Abdulla Algaissi, Tania Garron, Tao Xinrong, Bi-Hung Peng, Chien-Te K. Tseng, and Robert B Couch | Both SARS and MERS Coronavirus Vaccinations can lead to Immunopathology when challenged with Infectious Virus                                                                                           |
| 3  | Eddens, Taylor J       | University of Pittsburgh / Carnegie Mellon University MSTP | Serody, K2; Campfield B2; Elsegeiny, W1; Horne, W1; Kolls, JK1,                                                           | The role of IL17RB signaling in control of Pneumocystis murina infection and inducible bronchus associated lymphoid tissue development                                                                  |
| 4  | Fedson, David S        | retired                                                    | none                                                                                                                      | Seven principles to guide treatment research for the next epidemic or pandemic                                                                                                                          |
| 5  | Gill, Simren           | Imperial College London Dept of Medicine                   |                                                                                                                           | Increased airway glucose increases airway bacterial load in hyperglycaemia                                                                                                                              |
| 6  | Guvenel, Aleks K       | Imperial College London                                    | Agnieszka Jozwik, Allan Paras, Peter Openshaw and Chris Chiu                                                              | Epitope-specific CD4+ T cell responses to human respiratory syncytial virus                                                                                                                             |
| 7  | Harvill, Eric T        | University of Georgia                                      |                                                                                                                           | Interactions between Pathogen, Host and Microbiota                                                                                                                                                      |
| 8  | Hunter, Ryan C         | University of Minnesota                                    | Jordan M Dunitz, Jeffrey M Flynn                                                                                          | Evidence and role for bacterial mucin degradation in                                                                                                                                                    |
| 9  | Huang, Shengping       |                                                            |                                                                                                                           |                                                                                                                                                                                                         |
| 10 | Jacqueline, Cédric     | EA 3826                                                    | Alexis Broquet, PhD; Marion Davieau; Mickael Vourc'h, PhD; Jocelyne Caillon, PharmD, PhD; Karim Asehnoune, MD, PhD.       | Impact of Linezolid, a Protein-Synthesis Inhibitor Antibiotic, on In Vivo Cytokine Production and Host Inflammatory Response in a Murine Model of Methicillin-Susceptible and -Resistant Staphylococcus |
| 11 | Jhelum, Hina           | Molecular Immunology Laboratory                            | Hina Jhelum and Devinder Sehgal                                                                                           | Outer membrane vesicle associated deoxyribonuclease from Streptococcus pneumoniae degrades neutrophil extracellular traps                                                                               |
| 12 | Juttukonda, Lillian J  | Vanderbilt University                                      | Benjamin A. Gilston, Walter J. Chazin, Eric P. Skaar                                                                      | Acinetobacter baumannii coordinates metabolism with metal import to infect the lung                                                                                                                     |
| 13 | Lambert Emo, Kris      | University of Rochester                                    | Kris Lambert, Emma Reilly PhD, Young-min Hyun PhD, David Topham PhD                                                       | CD8+ T cell Migration During Influenza Infection                                                                                                                                                        |
| 14 | Langlois, Ryan         | University of Minnesota                                    |                                                                                                                           | Indelible labeling of influenza virus infected cells                                                                                                                                                    |

|    |                       |                                               |                                                                                                                                                                                              |                                                                                                                                                         |
|----|-----------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 | Lopez, Carolina B     | University of Pennsylvania                    | Sun Y, Koziol-White C, Panettieri R., Hodinka R.                                                                                                                                             | Defective Viral Genomes as primary danger signals during respiratory syncytial virus infection in mice and humans                                       |
| 16 | Markesich, Diane C    | Pulmotect, Inc.                               | Brian Gilbert, PhD, Burton Dickey MD and Brenton Scott, PhD                                                                                                                                  | PUL-042 and Concurrent Oseltamivir Demonstrates Augmented Efficacy Against Influenza A in a Mouse Lethal Model of Pneumonia                             |
| 17 | Menachery, Vineet D   | University of North Carolina                  | Vineet D. Menachery, Lisa E. Gralinski, Kara Jensen, Steven D. Hartman, Fernando Pardo-Manuel de Villena, Glen K. Matsushima, Martin T. Ferris, Ralph S. Baric                               | SARS-CoV infection of a genetically diverse mouse panel reveals eosinophil QTL associated with Brain Angiogenesis Inhibitor 1 activity within the lung. |
| 18 | Morrison, Juliet      | University of Washington                      | Adriana Forero, Andrew Nishida, Yael Steuerman, Irit Gat-Viks, Michael G. Katze and Juliet Morrison                                                                                          | Identification of immune cell types that associate with severe influenza disease or recovery in mice using digital cell quantification                  |
| 19 | Otto, Michael         | NIAID                                         | MF Bonesso, AJ Yeh, AE Villaruz, HS Joo, J McCausland, CMCB. Fortaleza, RS Cavalcante, MT Sobrinho, CF Ronchi, GYC Cheung, MLRS Cunha                                                        | Key role of alpha- toxin in fatal pneumonia caused by Staphylococcus aureus sequence type 398                                                           |
| 20 | Reilly, Emma C        | University of Rochester                       | Kris Lambert and David J Topham                                                                                                                                                              | Are influenza specific CD8+ TRM cells impacted by acute depletion of neutrophils?                                                                       |
| 21 | Samarasinghe, Amali E | University of Tennessee Health Science Center | RCN Melo, S Duan, KS LeMessurier, S Liedmann, JJ Lee, PG Thomas, JA McCullers                                                                                                                | Immune Responses during Allergic Asthma Promote Host Protection against Influenza A Virus                                                               |
| 22 | Sellman, Bret R       | MedImmune, LLC                                | Taylor S. Cohen, James J. Hilliard, Omari Jones-Nelson, Christine Tkaczyk, Antonio DiGiandomenico, Ashley E. Keller, Terrence O'Day, Lily Cheng, JoAnn Suzich, C. Kendall Stover, Bret R. Se | S. aureus alpha toxin potentiates Gram-negative lung infections by altering macrophage killing function                                                 |
| 23 | Sharma, Lokesh        | Yale University                               | Wei Liu, MD; Chad R. Marion, DO, PhD; Ashley Losier, MD; Sei Won Lee, MD, PhD; Young Ae Kang, MD, PhD; Jack A. Elias; Nathaniel Andrews, BS; Charles Dela Cruz, MD, Ph.D.                    | Chitotriosidase regulates bacterial dissemination and early inflammation in Klebsiella pneumoniae lung infection                                        |
| 24 | Sirard, Jean-Claude   | Institut Pasteur de Lille / Inserm            | Fougeron D, Van Maele L, Cayet D, and Sirard JC.                                                                                                                                             | Toll-like receptor 5 agonist as adjuvant for mucosal vaccination                                                                                        |
| 25 | Swords, William E     | Wake Forest School of Medicine                |                                                                                                                                                                                              | Glutathione-dependent redox homeostasis is an important determinant of Haemophilus influenza survival within biofilms                                   |
| 26 | Temple, Rachel M      | Geisel School of Medicine, Dartmouth College  | Eyal Amiel and Joshua J. Obar                                                                                                                                                                | When signals get crossed: the consequences of dual allergen- and influenza-mediated signaling in mast cells                                             |

|    |                        |                                                                                      |                                                                                                                                                                        |                                                                                                                                           |
|----|------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 27 | Thornton, Justin       | Mississippi State University                                                         | Joseph C. Bryant, Ridge C. Dabbs, Katie L. Oswalt, Lindsey R. Brown, Jason W. Rosch, Keun S. Seo, Janet R. Donaldson, Larry S. McDaniel, and Justin A. Thornton        | Pyruvate Oxidase of <i>Streptococcus pneumoniae</i> links Metabolism to Virulence by Regulating Pneumolysin Release                       |
| 28 | Tseng, Chien-Te K      | University of Texas Medical Branch                                                   | Xinrong, Tao, Tania Garron, Anurodh Shankar Agrawal, Abdullah Algaissi, Bi-Hung Peng, Maki Wakamiya, Teh-Sheng Chan, Lu Lu, Lanying Du, Shibo Jiang, Robert B. Couch   | Characterization and Demonstration of value of a Lethal Mouse Model of Middle East Respiratory Syndrome Coronavirus Infection and Disease |
| 29 | Ubags, Niki            | Maastricht University                                                                | N. Ubags, R. Stapleton, J. Vernooy, E Burg, J Bement, C Hayes, L Zabeau, J Tavernier, M. Wargo, B. Littenberg, M. Poynter, E. Wouters, P. Parsons, A. Dixon, B. Suratt | Hyperleptinemia Impairs Pulmonary Host Defense                                                                                            |
| 30 | van Doremalen, Neeltje | National Institute of Allergy and Infectious Diseases, National Institutes of Health | Trenton Bushmaker, Robert J. Fischer, Kerri L. Miazgowiec, Shauna Milne-Price, Dana P. Scott, Greg A. Saturday, Patrick W. Hanley, Laura Tally, Vincent J. Munster     | Respiratory disease caused by Middle East respiratory syndrome coronavirus in a human DPP4 mouse model                                    |
| 31 | Wang, Won-Bo           | College of Medicine, National Taiwan University                                      | Jie-Ru Shih and Wei-Bin Hsu                                                                                                                                            | Influenza A Virus Nucleoprotein Interacts with MEK2 and Activates the MEK/ERK Pathway                                                     |
| 32 | Zeng, Hui              | Centers for Disease Control                                                          | Xiangjie Sun, Jessica A. Belser, Joanna Pulit-Penaloza, Terrence M. Tumpey, and Taronna R. Maines                                                                      | Acute influenza virus infection in ferret differentiated primary airway epithelial cell cultures                                          |

## Conference Registration List

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### Biology of Acute Respiratory Infection

#### Host-Pathogen Interactions in Acute Respiratory Tract Infection: From Basic Mechanisms to Human Disease

Gordon Research Conference

February 21-26, 2016

Hotel Galvez, Galveston, TX

Chairs: Theodore Standiford & Peter Openshaw

Vice Chairs: Chad Steele & Dawn Bowdish

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**Important Note:** The information in this Registration List is provided as a convenience to enable attendees to collaborate and keep in touch. In accordance with GRC policy, this information should not be shared with non-registered attendees. Please respect the privacy of the other meeting attendees by not compiling email lists for the purpose of sending unsolicited emails, or by sharing their personal information without approval. Thank you.

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**Ahn, Danielle S**

Columbia University Medical Center  
3959 Broadway  
CH 10-24  
New York, NY 10032 USA

Phone: 212-305-8254  
Fax: 212-305-8254  
Email: dsa2120@cumc.columbia.edu

Participation: Poster Presenter

**Akpa, Belinda S**

North Carolina State University  
Department of Molecular Biomedical Sciences  
Campus Box 8401  
1060 William Moore Dr  
Raleigh, NC 27607 USA

Phone: 919-513-6426  
Fax: 919-513-6426  
Email: bsakpa@ncsu.edu

Participation: Attendee

**Alcorn, John F**

Children's Hospital of Pittsburgh of UPMC  
Department of Pediatrics  
9127 Rangos  
4401 Penn Ave.  
Pittsburgh, PA 15224 USA

Phone: 412-692-7595  
Fax:  
Email: john.alcorn@chp.edu

Participation: Attendee

**Alexander-Miller, Martha A**

Wake Forest School of Medicine  
Wake Forest BioTech Place  
575 North Patterson  
Rm 2E-018  
Winston Salem, NC 27101 USA

Phone: 336-716-5936  
Fax:  
Email: marthaam@wakehealth.edu

Participation: Poster Presenter

**Alexis, Broquet**

EA3826  
Faculté de Médecine  
Porte 439  
1 rue Gaston Veil  
Nantes 44000 France

Phone: 33-240-412-838  
Fax:  
Email: alexis.broquet@univ-nantes.fr

Participation: Poster Presenter

**Ballesteros-Tato, Andre**

University of Alabama at Birmingham  
1825 University Blvd Shelby building. Office 471  
Birmingham, AL 35294-2182 USA

Phone: (205) 975-4643  
Fax: (205) 975-3322  
Email: aballest@uab.edu

Participation: Speaker

**Berger, Scott B**

GlaxoSmithKline  
1250 S Collegeville Rd  
UP1345  
Collegeville, PA 19426 USA

Phone: 610-917-6174  
Fax:  
Email: scott.b.berger@gsk.com

Participation: Attendee

**Bhattacharya, Jahar**

Columbia University  
630 West 168th Street  
BB 8-812  
New York, NY 10032 USA

Phone: 212-305-7093  
Fax: 212-305-6701  
Email: jb39@cumc.columbia.edu

Participation: Speaker

**Blair, Wade S**

Merck  
770 Sumneytown Pike  
West Point, PA 19486 USA

Phone: 215-652-0248  
Fax:  
Email: wade.blair@merck.com

Participation: Attendee

**Blevins, Lance K**

Wake Forest School of Medicine  
Microbiology & Immunology  
Winston Salem, NC 27101 USA

Phone: 336-716-5938  
Fax:  
Email: lablevin@wakehealth.edu

Participation: Poster Presenter

**Bosteels, Cédric**

VIB Inflammation Research Center  
Technologiepark 927  
Ghent, O-Vlaanderen 9700 Belgium

Phone: 32-472-914-198  
Fax:  
Email: cedric.bosteels@ugent.be

Participation: Poster Presenter

**Bowdish, Dawn**

McMaster University  
1280 Main St W, McMaster University  
MDCL 4020  
Hamilton, ON L8S 4K1 Canada

Phone: 9055259140 x 22313  
Fax:  
Email: bowdish@mcmaster.ca

Participation: Vice Chair

**Britto, Clemente J**

Yale University  
Section of Pulmonary, Critical Care, and Sleep Medicine  
300 Cedar St. TAC S419  
New Haven, CT 06513 USA

Phone: 267-679-7391  
Fax:  
Email: clemente.britto@yale.edu

Participation: Poster Presenter

**Brown, Lindsey R**  
Mississippi State University  
PO Box GY  
Mississippi State, MS 39762 USA

Phone: 228-697-1082  
Fax:  
Email: lrb206@msstate.edu

Participation: Poster Presenter

**Carbonetti, Nicholas H**  
University of Maryland School of Medicine  
Department of Microbiology and Immunology  
685 W. Baltimore St.  
HSF-1 380  
Baltimore, MD 21201 USA

Phone: 410-706-7677  
Fax:  
Email: ncarbonetti@som.umaryland.edu

Participation: Poster Presenter

**Chakraborty, Krishnendu**  
University of Pittsburgh School of Medicine  
3459 Fifth Ave, MUH 628 NW  
Pittsburgh, PA 15213 USA

Phone: 412-692-2265  
Fax: 412-692-2260  
Email: krc75@pitt.edu

Participation: Speaker

**Chapman, Hal**  
University of California, San Francisco  
513 Parnassus Ave  
San Francisco, California 94143 USA

Phone: 415-260-9970  
Fax:  
Email: hal.chapman@ucsf.edu

Participation: Speaker

**Chen, Kong**  
University of Pittsburgh  
Department of Pediatrics  
Children's Hospital of Pittsburgh of UPMC  
Richard King Mellon Foundation Institute for Pediatric Research  
Pittsburgh, PA 15224 USA

Phone: 412-692-9422  
Fax:  
Email: kong.chen2@chp.edu

Participation: Speaker

**Chiu, Christopher**  
Imperial College London  
St Mary's Campus  
Norfolk Place  
London W2 1PG United Kingdom

Phone: +44 20 7594 3853  
Fax:  
Email: c.chiu@imperial.ac.uk

Participation: Speaker

**Chronos, Zissis C**  
Pennsylvania State University College of Medicine  
500 University Dr  
MC 085  
Hershey, PA 17033 USA

Phone: 717-531-4718  
Fax:  
Email: zchronos@hmc.psu.edu

Participation: Poster Presenter

**Chuang, Yi-Ping**  
National Defense Medical Center  
Department of Microbiology and Immunology  
No.161, Sec. 6, Minquan E. Rd., Neihu Dist.  
Taipei 114 Taiwan

Phone: 88-628-792-3100 ext 18541  
Fax:  
Email: ypchuang@ndmctsg.edu.tw

Participation: Poster Presenter

**Ciancanelli, Michael**  
Rockefeller University  
1230 York Avenue  
Box 163  
New York, NY 10065 USA

Phone: 212.327.7336  
Fax:  
Email: mici751@mail.rockefeller.edu

Participation: Speaker

**Coleman, Christopher M**  
University of Maryland School of Medicine  
685 W Baltimore Street  
Baltimore, MD 21201 USA

Phone: 410-706-2538  
Fax:  
Email: ccoleman@som.umaryland.edu

Participation: Poster Presenter

**Corry, David**  
Baylor College of Medicine  
One Baylor Plaza  
BCM285 Suite M915D  
Houston, TX 77030 USA

Phone: 713-798-8740  
Fax: 713-798-5780  
Email: dcorry@bcm.edu

Participation: Speaker

**Couch, Robert B**  
University of Texas Medical Branch  
Department of Internal Medicine  
University of Texas Medical Branch  
301 University Boulevard  
Galveston, TX 77555-0435 USA

Phone: 409-747-1857  
Fax: 409-772-6527  
Email: rbcouch@utmb.edu

Participation: Speaker

**Davidson, Donald J**  
University of Edinburgh  
MRC Centre for Inflammation Research,  
Queen's Medical Research Institute, W2.05,  
47 Little France Crescent  
Edinburgh EH164TJ United Kingdom

Phone: 44-131-242-6658  
Fax:  
Email: donald.davidson@ed.ac.uk

Participation: Speaker

**Dela Cruz, Charles**  
Yale University School of Medicine  
Pulmonary, Critical Care and Sleep Medicine Section  
Department of Internal Medicine  
300 Cedar Street, TACS441D  
New Haven, CT 06520 USA

Phone: 203-710-4688  
Fax: 203-785-5952  
Email: charles.delacruz@yale.edu

Participation: Attendee

**Deleo, Frank R**  
National Institute of Allergy and Infectious Diseases, NIH  
Laboratory of Bacteriology  
Rocky Mountain Laboratories  
Hamilton, MT 59840 USA

Phone: 406-363-9448  
Fax:  
Email: fdeleo@niaid.nih.gov

Participation: Speaker

**Deretic, Vojo**  
University of New Mexico Health Sciences Center  
915 Camino de Salud  
Albuquerque, New Mexico 87131 USA

Phone: 5052720291  
Fax:  
Email: vderetic@salud.unm.edu

Participation: Speaker

**Dickson, Robert P.**  
University of Michigan  
6220 MSRB III/SPC 5642  
1150 W. Medical Center Dr.  
Ann Arbor, MI 48109-5642 USA

Phone: 7342771487  
Fax:  
Email: rodickso@med.umich.edu

Participation: Speaker

**Eddens, Taylor J**  
University of Pittsburgh / Carnegie Mellon University MSTP  
3550 Terrace Street  
Pittsburgh, PA 15261 USA

Phone: 724-272-9208  
Fax:  
Email: tje10@pitt.edu

Participation: Poster Presenter

**Espeseth, Amy S**  
Merck Research Labs  
Infectious Disease and Vaccines  
WP-3214  
770 Sumneytown Pike  
West Point, PA 19486 USA

Phone: 215-652-1551  
Fax:  
Email: amy.espeseth@merck.com

Participation: Attendee

**Evans, Christopher**  
University of Colorado  
12700 E 19th Avenue, Mailstop 8611  
P15-3121  
Denver, CO 80045 USA

Phone: 3037246573  
Fax:  
Email: christopher.evans@ucdenver.edu

Participation: Speaker

**Evans, Scott E**  
University of Texas MD Anderson Cancer Center  
1515 Holcombe Blvd  
Unit 1100  
Houston, TX 77030 USA

Phone: 713-563-7433  
Fax: 713-563-0411  
Email: seevans@mdanderson.org

Participation: Speaker

**Fedson, David S**  
retired  
57, chemin du Lavoir  
Sergy Haut 01630 France

Phone: 33-45-099-1306  
Fax: none  
Email: dfedson@wanadoo.fr

Participation: Poster Presenter

**Frieman, Matthew**  
University of Maryland  
685 West Baltimore St  
Room 380  
Baltimore, MD 21201 USA

Phone: 4107062539  
Fax: 4107066970  
Email: mfrieman@som.umaryland.edu

Participation: Speaker

**Gal, Yoav**  
IIBR  
Department of Biochemistry and Molecular Genetics  
Ness-Ziona 74100 Israel

Phone: 972-8-938-5833  
Fax:  
Email: nagal720@gmail.com

Participation: Poster Presenter

**Garth, Jaleesa**

University of Alabama at Birmingham  
1900 University Blvd  
Tinsley Harrison Towers, 454  
Birmingham, AL 35294 USA

Phone: 318-450-7058  
Fax:  
Email: jmgarth6@uab.edu

Participation: Poster Presenter

**Gill, Simren**

Imperial College London  
St Mary's Campus  
London W2 1PG United Kingdom

Phone: 44-783-357-2549  
Fax:  
Email: simren.gill11@imperial.ac.uk

Participation: Poster Presenter

**Glinert, Itai S**

IIBR  
Department of infectious disease  
POB 19  
Ness Ziona 7410001 Israel

Phone: 972-54-787-8206  
Fax:  
Email: itaiglinert@gmail.com

Participation: Attendee

**Guvanel, Aleks K**

Imperial College London  
Department of respiratory medicine  
London w21pg United Kingdom

Phone: 44-782-860-5941  
Fax:  
Email: akg08@imperial.ac.uk

Participation: Poster Presenter

**Hakansson, Anders**

Lund University  
Department of Translational Medicine  
Division of Experimental Infection Medicine  
53 Inga Marie Nilsson's Gata  
Malmo 20502 Sweden

Phone: +46-40-725-190255  
Fax:  
Email: anders\_p.hakansson@med.lu.se

Participation: Speaker

**Halstead, E. Scott**

Penn State Hershey Children's Hospital  
Department of Pediatrics  
500 University Drive  
H085  
Hershey, PA 17033 USA

Phone: 717-531-5337  
Fax:  
Email: ehalstead@hmc.psu.edu

Participation: Poster Presenter

**Harker, James**

Imperial College London  
Section of Inflammation, Development & Repair  
NHLI, Imperial College London,  
Sir Alexander Fleming Building, South Kensington  
London Sw7 2AZ United Kingdom

Phone: 44-207-594-3171  
Fax:  
Email: j.harker@imperial.ac.uk

Participation: Attendee

**Harrod, Kevin S**

University of Alabama at Birmingham  
901 19th Street South  
BMR II, 324  
Birmingham, AL 35294 USA

Phone: 205-975-9642  
Fax: 205-996-7014  
Email: kevinharrod@uabmc.edu

Participation: Attendee

**Harvill, Eric T**

University of Georgia  
Department of Infectious Diseases  
Athens, GA 30602 USA

Phone: 814-404-5131  
Fax:  
Email: harvill@uga.edu

Participation: Poster Presenter

**Hohl, Tobias**

Memorial Sloan-Kettering Cancer Center  
1275 York Avenue  
Box 9  
New York, NY 10065 USA

Phone: 646-888-3596  
Fax: 646-422-0502  
Email: hohl@mskcc.org

Participation: Poster Presenter

**Hook, Jaime**

Columbia University Medical Center  
622 W. 168th Street, PH 14 Room 104  
New York, NY 10032 USA

Phone: 212-305-7771  
Fax:  
Email: jh3036@cumc.columbia.edu

Participation: Poster Presenter

**Huang, Shengping**

Indiana University School of Medicine  
Department of pediatrics  
Herman B wells Center for Pediatric Research  
1044 W Walnut Street  
Indianapolis, IN 46202 USA

Phone: 913-953-6281  
Fax:  
Email: huangshe@iu.edu

Participation: Attendee

**Hunter, Ryan C**

University of Minnesota  
Department of Microbiology and Immunology  
Microbiology Research Facility  
690 23rd Avenue SE  
Minneapolis, MN 55454 USA

Phone: 612-626-1402  
Fax:  
Email: rchunter@umn.edu

Participation: Poster Presenter

**Iwasaki, Jua**

Imperial College London  
National Heart and Lung Institute  
Sir Alexander Fleming Building  
Exhibition Road, South Kensington  
London SW7 2AZ United Kingdom

Phone: 44-779-975-0288  
Fax:  
Email: j.iwasaki@imperial.ac.uk

Participation: Speaker

**Jacqueline, Cédric**

EA 3826  
Faculté de Médecine  
1 rue Gaston Veil  
Nantes, Non-USA 44035 France

Phone: 33-609-951155  
Fax:  
Email: cedric.jacqueline@univ-nantes.fr

Participation: Poster Presenter

**Jamieson, Amanda**

Brown University  
34 Olive St, Box G-B5  
Providence, RI 02912 USA

Phone: 4018636158  
Fax:  
Email: amanda\_jamieson@brown.edu

Participation: Speaker

**Jeyaseelan, Samithamby**  
Louisiana State University  
Dept. of Pathobiological Sciences  
Skip Bertman Drive  
Baton Rouge, LA 70803 USA

Phone: 225-578-9524  
Fax: 225-578-9701  
Email: jey@lsu.edu

Participation: Speaker

**Jhelum, Hina**  
Molecular Immunology Laboratory  
National Institute of Immunology  
Aruna Asaf Ali Marg  
New Delhi, Delhi 110067 India

Phone: 91-971-130-2776  
Fax:  
Email: hinajhelum@nii.ac.in

Participation: Poster Presenter

**Juttukonda, Lillian J**  
Vanderbilt University  
Department of Pathology, Microbiology & Immunology  
A-5102 Medical Center North  
1161 21st Ave South  
Nashville, TN 37232 USA

Phone: 615-343-8492  
Fax: 615-343-8492  
Email: lillian.juttukonda@vanderbilt.edu

Participation: Poster Presenter

**Kim, John**  
University of Calgary  
3330 Hospital Drive NW  
Calgary, AB T2N4N1 Canada

Phone: 403-210-7008  
Fax:  
Email: kimjkh@ucalgary.ca

Participation: Poster Presenter

**Kim, Yuri**  
Boston University School of Medicine  
Pulmonary Center  
72 E. Concord St.  
Boston, MA 02118 USA

Phone: 617-638-5272  
Fax:  
Email: yurilkim@bu.edu

Participation: Poster Presenter

**Kincaid, Randall**  
NIAID / NIH  
5601 Fishers Lane  
Room 8G67  
Rockville, MD 20892 USA

Phone: 301-332-9316  
Fax:  
Email: randall.kincaid@nih.gov

Participation: Attendee

**Kobzik, Lester**  
Harvard University  
665 Huntington Ave  
Boston, MA 02115 USA

Phone: 617-432-2247  
Fax:  
Email: lkobzik@hsph.harvard.edu

Participation: Attendee

**Kolls, Jay K**  
University of Pittsburgh School of Medicine  
4401 Penn Ave  
8130 Rangos Research Ctr  
Pittsburgh, PA 15224 USA

Phone: 412-692-7710  
Fax: 412-692-6184  
Email: jay.kolls@chp.edu

Participation: Discussion Leader

**Kubes, Paul**

University of Calgary  
HRIC 4AA16, University of Calgary  
3280 Hospital Drive N.W.  
Calgary, AB T2N 4Z6 Canada

Phone: 403-220-8558  
Fax:  
Email: pkubes@ucalgary.ca

Participation: Speaker

**Lambert Emo, Kris**

University of Rochester  
Center for Vaccine Biology and Immunology  
575 Elmwood Avenue Box 609  
KMRB 3-9852  
Rochester, NY 14642 USA

Phone: 585-273-1410  
Fax:  
Email: kris\_lambert@urmc.rochester.edu

Participation: Speaker

**Lambrecht, Bart**

Ghent University - VIB  
Technologiepark  
927  
Zwijnaarde, België 9052 Belgium

Phone: +3293313601  
Fax: +3292217673  
Email: bart.lambrecht@irc.vib-ugent.be

Participation: Speaker

**Langlois, Ryan**

University of Minnesota  
420 Delaware St, SE  
1020 Mayo Building  
Minneapolis, MN 55455 USA

Phone: 612-625-3633  
Fax:  
Email: langlois@umn.edu

Participation: Poster Presenter

**Lee, Esther KS**

University of Calgary  
Department of Critical Medicine  
HRIC 4AC53  
3330 Hospital Drive NW  
Calgary, AB T2N4N1 Canada

Phone: 587-998-2397  
Fax:  
Email: kyungsu.estherlee@gmail.com

Participation: Poster Presenter

**Levy, Haim**

Israel Institute for Biological Research  
PO Box 19  
Ness Ziona 74100 Israel

Phone: 972-8-938-1483  
Fax:  
Email: haiml@iibr.gov.il

Participation: Attendee

**Liu, Lin**

Oklahoma State University  
Department of Physiological Sciences  
264 McElroy Hall  
Edmond, OK 74078 USA

Phone: 405-744-4526  
Fax:  
Email: lin.liu@okstate.edu

Participation: Attendee

**Lopez, Carolina B**

University of Pennsylvania  
380 South University Ave, Hill 318  
Philadelphia, PA 19104 USA

Phone: 215-573-3493  
Fax:  
Email: lopezca@vet.upenn.edu

Participation: Speaker

**Lubbers, Laura S**

Merck & Co  
Office WP45-3551, 770 E. Sumneytown Pike  
West Point, PA 19486 USA

Phone: 908-763-5203  
Fax:  
Email: laura\_lubbers@merck.com

Participation: Attendee

**Markesich, Diane C**

Pulmotect, Inc.  
3900 Essex Lane  
Suite 575  
Houston, TX 77027 USA

Phone: 713-579-9239  
Fax:  
Email: diamarkes@pulmotect.com

Participation: Poster Presenter

**Marriott, Helen M**

University of Sheffield  
Department of Infection, Immunity and Cardiovascular Disease  
Beech Hill Road  
Sheffield S10 2RX United Kingdom

Phone: 44-114-271-2181  
Fax:  
Email: h.m.marriott@sheffield.ac.uk

Participation: Attendee

**Marsland, Benjamin**

University Hospital of Lausanne  
Service de pneumologie  
Bureau CLE D02.206  
Chemin des Boveresses 155  
Epalinges, Vaud CH-1066 Switzerland

Phone: 41-021 314 1378  
Fax:  
Email: benjamin.marsland@chuv.ch

Participation: Speaker

**Menachery, Vineet D**

University of North Carolina  
3304 Michael Hooker Research Building, CB #7435  
Chapel Hill, NC 27599 USA

Phone: 919-966-3897  
Fax: 919-966-3897  
Email: vineet@email.unc.edu

Participation: Poster Presenter

**Mizgerd, Joseph P**

Boston University School of Medicine  
Pulmonary Center  
72 E. Concord St.  
Boston, MA 02118 USA

Phone: 617-638-5201  
Fax:  
Email: jmizgerd@bu.edu

Participation: Speaker

**Morrison, Juliet**

University of Washington  
Department of Microbiology  
960 Republican Street  
Katze Lab  
Seattle, WA 98109 USA

Phone: 646-284-8216  
Fax:  
Email: jumo@uw.edu

Participation: Speaker

**Netea, Mihai**

Radboud University Nijmegen Medical Centre  
Geert Grootepleinzuid 8  
6525 GA Nijmegen 6525 The Netherlands

Phone: 31-24-3618819  
Fax: 31-24-3541734  
Email: m.netea@aig.umcn.nl

Participation: Speaker

**Openshaw, Peter**  
Imperial College London  
St Mary's Campus  
Norfolk Place  
Paddington  
London W2 1PG United Kingdom

Phone: 44-20-7594-3854  
Fax: +44 207 262 8913  
Email: p.openshaw@imperial.ac.uk

Participation: Chair

**Opitz, Bastian**  
Charité Universitätsmedizin Berlin, Dept. of Intern.  
Med./Infectious Diseases and Pulmonary Medicine  
Augustenburger Platz 1  
Berlin 13353 Germany

Phone: 49 30 450 553501  
Fax:  
Email: bastian.opitz@charite.de

Participation: Poster Presenter

**Otto, Michael**  
National Institute of Allergy and Infectious Diseases, NIH  
50 South Drive  
Bethesda, MD 20892 USA

Phone: 301-761-6402  
Fax:  
Email: motto@niaid.nih.gov

Participation: Speaker

**Penaloza, Hernan**  
Pontificia Universidad Catolica de Chile  
Av. Libertador Bernardo O'Higgins 340  
Santiago 8331150 Chile

Phone: 56-2-354-1924  
Fax:  
Email: hfpenalo@gmail.com

Participation: Poster Presenter

**Pilon, Aprile L**  
Therabron Therapeutics, Inc  
9430 Key West Avenue  
#150  
Rockville, MD 20850 USA

Phone: 301-452-2899  
Fax:  
Email: aprile.pilon@therabron.com

Participation: Poster Presenter

**Prince, Alice**  
Columbia University  
BB 416 650W. 168th Street  
New York, NY USA

Phone: 212 305-4193  
Fax:  
Email: asp7@cumc.columbia.edu

Participation: Discussion Leader

**Quinton, Lee J**  
Boston University School of Medicine  
The Pulmonary Center  
72 E. Concord St  
Boston, MA 01760 USA

Phone: 617-638-6125  
Fax:  
Email: lquinton@bu.edu

Participation: Attendee

**Ray, Prabir**  
University of Pittsburgh School of Medicine  
3459 Fifth Ave, MUH 628 NW  
Pittsburgh, PA 15213 USA

Phone: 412-802-3192  
Fax: 412-692-2260  
Email: rayp@pitt.edu

Participation: Attendee

**Reeder, Kristen M**

University of Alabama at Birmingham  
1900 University Blvd.  
THT 446  
Birmingham, AL 35294 USA

Phone: 205-996-9599  
Fax:  
Email: reederkm@uab.edu

Participation: Poster Presenter

**Reilly, Emma C**

University of Rochester  
CVBI  
601 Elmwood Ave Box 609  
Rochester, NY 14642 USA

Phone: 585-613-6009  
Fax:  
Email: emma\_reilly@urmc.rochester.edu

Participation: Poster Presenter

**Rich, Helen**

University of Pittsburgh  
Department of Pediatrics  
9136 Rangos Research Center  
4401 Penn Ave.  
Pittsburgh, PA 15224 USA

Phone: 781-507-4990  
Fax:  
Email: her39@pitt.edu

Participation: Attendee

**Riquelme, Sebastian A**

Columbia University  
650W 168st, Black Building 4-416  
New York, NY 10032 USA

Phone: 212-305-8254  
Fax:  
Email: sr3302@columbia.edu

Participation: Poster Presenter

**Robinson, Keven**

University of Pittsburgh  
Division of Pulmonary, Allergy, CCM  
Department of Medicine  
3459 Fifth Avenue, NW Montefiore 628  
Pittsburgh, PA 15232 USA

Phone: 412-864-5483  
Fax:  
Email: robinsonkm@upmc.edu

Participation: Poster Presenter

**Ruckwardt, Tracy J**

National Institutes of Health  
9000 Rockville Pike  
Bethesda, MD 20892 USA

Phone: 443-831-4788  
Fax:  
Email: truckwardt@mail.nih.gov

Participation: Poster Presenter

**Samarasinghe, Amali E**

University of Tennessee Health Science Center  
50 N. Dunlap Street  
Memphis, TN 38103 USA

Phone: 901-287-5318  
Fax: 901-287-4478  
Email: asamaras@uthsc.edu

Participation: Poster Presenter

**Schultz-Cherry, Stacey**

St. Jude Children's Research Hospital  
Department of Infectious Diseases  
262 Danny Thomas Place  
Memphis, TN 38105 USA

Phone: 901-595-6629  
Fax: 901-595-3099  
Email: stacey.schultz-cherry@stjude.org

Participation: Speaker

**Sellman, Bret R**  
MedImmune, LLC  
Dept. of Infectious Disease  
One MedImmune Way  
Gaithersburg, MD 20878 USA

Phone: 301-398-5581  
Fax:  
Email: sellmanb@medimmune.com

Participation: Speaker

**Sharma, Lokesh**  
Yale University  
300 Cedar Street TAC S441-D  
New Haven, CT 06519 USA

Phone: 347-488-6527  
Fax:  
Email: lokeshkumar.sharma@yale.edu

Participation: Poster Presenter

**Singh, Pradeep**  
University of Washington School of Medicine  
Division of Pulmonary and Critical Care Medicine  
1959 NE Pacific Street, RM K-343-A  
Box 357242  
Seattle, WA 98195-7242 USA

Phone: 206-221-7151  
Fax: 206-543-8297  
Email: singhpr@uw.edu

Participation: Speaker

**Sirard, Jean-Claude**  
Institut Pasteur de Lille / Inserm  
Center for Infection and Immunity of Lille  
Institut Pasteur de Lille  
1 rue du Pr Calmette  
Lille 59019 France

Phone: 33-62-776-5999  
Fax:  
Email: jean-claude.sirard@inserm.fr

Participation: Speaker

**Standiford, Theodore J**  
University of Michigan Health System  
109 Zina Pitcher Place  
4062 BSRB  
Ann Arbor, MI 48109-2200 USA

Phone: 734-764-4554  
Fax: 734-615-2331  
Email: tstandif@umich.edu

Participation: Chair

**Steele, Chad**  
University of Alabama at Birmingham  
1900 University Ave.  
THT 437A  
Birmingham, AL 35294 USA

Phone: 205-996-9598  
Fax:  
Email: chadsteele@uab.edu

Participation: Vice Chair

**Stulik, Lukas**  
Arsanis Biosciences  
Helmut-Qualtinger-Gasse 2  
Vienna, Vienna 1030 Austria

Phone: 43-179-901-1723  
Fax:  
Email: lukas.stulik@arsanis.com

Participation: Poster Presenter

**Sun, Keer**  
University of Nebraska Medical Center  
Department of Pathology and Microbiology  
985900 Nebraska Medical Center  
Omaha, NE 68198-5900 USA

Phone: 402-559-7157  
Fax:  
Email: keer.sun@unmc.edu

Participation: Attendee

**Suratt, Benjamin**

University of Vermont  
89 Beaumont Ave  
Given E407  
Burlington, VT 05405 USA

Phone: (802) 656-8979  
Fax: (802) 656-3526  
Email: benjamin.suratt@med.uvm.edu

Participation: Speaker

**Surette, Michael G**

McMaster University  
Department of Biochemistry and Biomedical Sciences  
Faculty of Health Sciences  
1280 Main St West  
Hamilton, Ontario L8S 4K1 Canada

Phone: 905-525-9140 Ext 21964  
Fax: 905-522-3454  
Email: surette@mcmaster.ca

Participation: Speaker

**Swords, William E**

Wake Forest School of Medicine  
Department of Microbiology and Immunology  
575 North Patterson Avenue  
2E-034 Wake Forest Biotech Place  
Winston-Salem, NC 27106 USA

Phone: 336-713-5049  
Fax:  
Email: wswords@wakehealth.edu

Participation: Poster Presenter

**Tan, Man-Wah**

Genentech Inc  
1 DNA Way 11-316 MS 33  
South San Francisco, CA 94080 USA

Phone: 650-467-6746  
Fax:  
Email: tan.man-wah@gene.com

Participation: Attendee

**Temple, Rachel M**

Geisel School of Medicine, Dartmouth College  
Department of Microbiology and Immunology  
1 Medical Center Drive  
650W Borwell Building  
Lebanon, NH 03756 USA

Phone: 603-650-6822  
Fax:  
Email: rachel.temple@dartmouth.edu

Participation: Speaker

**Thornton, Justin**

Mississippi State University  
Department of Biological Sciences  
Mississippi State, MS 39762 USA

Phone: 662-325-8020  
Fax:  
Email: thornton@biology.msstate.edu

Participation: Poster Presenter

**Torres, Alfredo G**

University of Texas Medical Branch  
Dept of Microbiol and Immunol  
301 University Blvd  
Galveston, TX 77555 USA

Phone: 409-747-0189  
Fax:  
Email: altorres@utmb.edu

Participation: Speaker

**Traber, Katrina E**  
Boston University School of Medicine  
Pulmonary Center  
72 E. Concord St  
R304  
Boston, MA 02118 USA

Phone: 617-638-5214  
Fax:  
Email: [katraber@bu.edu](mailto:katraber@bu.edu)  
  
Participation: Poster Presenter

**Trevejo-Nunez, Giralдина**  
University of Pittsburgh  
4401 Penn Ave. RRB 8th floor  
Pittsburgh, PA 15217 USA

Phone: 412-335-6187  
Fax:  
Email: [giralдина.trevejo@chp.edu](mailto:giralдина.trevejo@chp.edu)  
  
Participation: Poster Presenter

**Tseng, Chien-Te K**  
University of Texas Medical Branch  
Department of Microbiology and Immunology  
301 University Blvd.,  
Galveston, TX 77555-0609 USA

Phone: 409-266-6929  
Fax: 409-747-0764  
Email: [sktseng@utmb.edu](mailto:sktseng@utmb.edu)  
  
Participation: Poster Presenter

**Ubags, Niki**  
Maastricht University  
Department of Respiratory Medicine  
PO Box 5800  
Maastricht 6202 AZ The Netherlands

Phone: 31-433-881563  
Fax: 31-433-881563  
Email: [n.ubags@maastrichtuniversity.nl](mailto:n.ubags@maastrichtuniversity.nl)  
  
Participation: Poster Presenter

**Van Den Steen, Philippe E**  
KU Leuven - University of Leuven  
Rega Institute, Department of Microbiology and Immunology  
Minderbroedersstraat 10  
Leuven 3000 Belgium

Phone: 32-16-33-7363  
Fax: 32-16-33-7340  
Email: [philippe.vandensteen@rega.kuleuven.be](mailto:philippe.vandensteen@rega.kuleuven.be)  
  
Participation: Poster Presenter

**van Doremalen, Neeltje**  
National Institute of Allergy and Infectious Diseases, National  
Institutes of Health  
Laboratory of Virology  
903 S 4th Street  
Hamilton, MT 59840 USA

Phone: 406-375-9692  
Fax: 406-375-9620  
Email: [neeltje.vandoremalen@nih.gov](mailto:neeltje.vandoremalen@nih.gov)  
  
Participation: Poster Presenter

**Vora, Kalpit A**  
Merck Research Laboratory  
Infectious Disease and Vaccine Research  
770, Sumneytown Pike  
Mail Stop WP-14-2  
West Point, PA 19486 USA

Phone: 215-652-8067  
Fax:  
Email: [kalpit.vora@merck.com](mailto:kalpit.vora@merck.com)  
  
Participation: Attendee

**Wack, Andreas**  
Francis Crick Institute  
Mill Hill Laboratory  
The Ridgeway  
London NW71AA United Kingdom

Phone: +4402088162209  
Fax:  
Email: [andreas.wack@crick.ac.uk](mailto:andreas.wack@crick.ac.uk)  
  
Participation: Speaker

**Wang, Won-Bo**

College of Medicine, National Taiwan University  
Graduate Institute of Microbiology  
No. 1, Jen-Ai Road, Section 1  
Taipei 100 Taiwan

Phone: 886-22-312-3456 ext 88285  
Fax: 886-22-391-5293  
Email: [wbwang@ntu.edu.tw](mailto:wbwang@ntu.edu.tw)

Participation: Poster Presenter

**Wang, Jieru**

University of Pittsburgh  
Department of Pediatrics, 4401 Penn Ave 9126 Rangos  
Pittsburgh, PA 15224 USA

Phone: 412-692-7787  
Fax:  
Email: [jiw95@pitt.edu](mailto:jiw95@pitt.edu)

Participation: Poster Presenter

**Wu, Jin**

Janssen Pharmaceutica NV  
Turnhoutseweg 30  
Beerse 2340 Belgium

Phone: 32-14641434  
Fax:  
Email: [tvdban2@its.jnj.com](mailto:tvdban2@its.jnj.com)

Participation: Attendee

**Yoon, Joo-Heon**

Yonsei University College of Medicine  
Department of Otorhinolaryngology  
50-1 Yonsei-ro, Seodaemun-gu  
Seoul 120-752 South Korea

Phone: 82-2-2228-3610  
Fax: 82-2-393-0580  
Email: [jhyoon@yuhs.ac](mailto:jhyoon@yuhs.ac)

Participation: Poster Presenter

**Zeng, Hui**

Centers for Disease Control  
1600 Clifton Road  
Atlanta, GA 30084 USA

Phone: 404-639-5447  
Fax:  
Email: [hbz7@cdc.gov](mailto:hbz7@cdc.gov)

Participation: Poster Presenter

## 出國報告審核表

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                      |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 出國報告名稱：                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                      |                          |
| 出國人姓名<br>(2人以上，以1人為代表)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 職稱                                                                                                                                                                                                                                                                                                                                                                                   | 服務單位                     |
| 莊依萍                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 助理教授                                                                                                                                                                                                                                                                                                                                                                                 | 國防醫學院微免所                 |
| 出國類別                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> 考察 <input type="checkbox"/> 進修 <input type="checkbox"/> 研究 <input type="checkbox"/> 實習<br><input checked="" type="checkbox"/> 其他 <u>國際會議</u> (例如國際會議、國際比賽、業務接洽等)                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                      |                          |
| 出國期間： 105年2月21日至105年2月27日                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 報告繳交日期：105年3月24日                                                                                                                                                                                                                                                                                                                                                                     |                          |
| 出國人員<br>自我檢核                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 計畫主辦<br>機關審核                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 審 核 項 目                                                                                                                                                                                                                                                                                                                                                                              |                          |
| <input checked="" type="checkbox"/><br><input checked="" type="checkbox"/><br><input checked="" type="checkbox"/><br><input checked="" type="checkbox"/><br><input checked="" type="checkbox"/><br><input checked="" type="checkbox"/><br><input checked="" type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input checked="" type="checkbox"/><br><input checked="" type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | 1.依限繳交出國報告<br>2.格式完整(本文必須具備「目的」、「過程」、「心得及建議事項」)<br>3.無抄襲相關資料<br>4.內容充實完備<br>5.建議具參考價值<br>6.送本機關參考或研辦<br>7.送上級機關參考<br>8.退回補正，原因：<br>(1) 不符原核定出國計畫<br>(2) 以外文撰寫或僅以所蒐集外文資料為內容<br>(3) 內容空洞簡略或未涵蓋規定要項<br>(4) 抄襲相關資料之全部或部分內容<br>(5) 引用相關資料未註明資料來源<br>(6) 電子檔案未依格式辦理<br>9.本報告除上傳至出國報告資訊網外，將採行之公開發表：<br>(1) 辦理本機關出國報告座談會(說明會)，與同仁進行知識分享。<br>(2) 於本機關業務會報提出報告<br>(3) 其他_____<br>10.其他處理意見及方式： |                          |
| 出國人簽章(2人以上，得以1人為代表)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 計畫主辦機關<br>審核人                                                                                                                                                                                                                                                                                                                                                                        | 一級單位主管簽章<br>機關首長或其授權人員簽章 |

說明：

- 一、各機關可依需要自行增列審核項目內容，出國報告審核完畢本表請自行保存。
- 二、審核作業應儘速完成，以不影響出國人員上傳出國報告至「[公務出國報告資訊網](#)」為原則。