

Infection and Immunity Poster Listing

Wednesday, 15 February 2012

Poster Session 1

8:00 PM - 9:30 PM

Exhibition Hall

Priyangi Alwis

Characterisation of an OmpR-EnvZ -like two-component signal transduction system in *Burkholderia pseudomallei* abs#101

Desmond Ang

Interleukin 12 produced by plasmacytoid dendritic cells contributes to the control of *Legionella pneumophila* infection abs#103

Michelle Audsley

Nuclear trafficking and functions of paramyxovirus P gene-encoded proteins abs#105

Andrew Bean

Characterization of chicken Mda5 activity: regulation of IFN- β in the absence of RIG-I functionality. abs#107

Anthony Beckhouse

Single molecule CAGE sequencing of human monocytes treated with a panel of infectious agents reveals striking pathogen dependent promoter usage abs#109

Matthew Belousoff

Structure and function of a new member of the Omp85 family, the TAM complex. abs#111

Nilesh Bokil

Role of the zinc transporter SLC39A8 in human macrophage antimicrobial responses abs#113

John Boyce

A *Burkholderia pseudomallei* two-component signal transduction system that is critical for virulence and regulates flagellin expression and motility. abs#115

Andrew Brown

Flow cytometric quantitation of pulmonary bacterial load in murine *Legionella pneumophila* infection. abs#117

Jose Burgos-Portugal

The pathogenic potential of the emerging intestinal pathogen *Campylobacter ureolyticus* abs#119

Sabine Mihm

Association of TLR7 rs179008 gene variants with hepatic IFN- λ and IFN- λ receptor expression in chronic hepatitis C abs#121

Chih-Jung Chang

Immuno-modulatory effect of *Ganoderma Lucidum* on Natural killer cells abs#123

Benjamin Cocks

Ancient Antimicrobial Peptides Kill Antibiotic-Resistant Pathogens: Australian Mammals Provide New Options abs#125

Nicholas Condon

Entry pathways for *Salmonella* in macrophages. abs#127

Tania de Koning-Ward

Unravelling how malaria parasites make red blood cells
their home *abs#129*

Nicole De Weerd
Biological Effects of a Missense Mutation in IFNAR1, the Low Affinity Receptor of
the Type I IFN Signaling Complex *abs#131*

Renee Duncan
The complement protease, C1s, harbours an activation-dependent exosite for its
substrate, C4. *abs#133*

Rhys Dunstan
Assembly of the secretin protein super-family. *abs#135*

Diako Ebrahimi
Identification of hypermutated HIV sequences using Markov models of K-mer
representation *abs#137*

Sarah Fardy
Analysis of inflammasome related molecules in the response to H5N1 avian
Influenza *abs#139*

Samuel Forster
Novel Regulatory Controls of the Innate Immune Response *abs#141*

Ka Yee Fung
Regulation of the novel type I INF-- IFN epsilon *abs#143*

Reena Ghildyal
Importance of Regulated Nucleocytoplasmic Trafficking of Respiratory Syncytial
Virus M Protein in Infection *abs#145*

Kate Goossens
Characterisation of chicken viperin *abs#147*

Tamara Gough
Production and characterization of a novel chicken
type I interferon *abs#149*

Stephanie Gras
T Cell Receptors are as polymorphic as Snails *abs#151*

Diane Green
Microscopy of live highly pathogenic viruses *abs#153*

Jye Swei Guan
Integrin $\alpha_5\beta_1$ plays a role in the infection of endothelial cells
by *Helicobacter pylori* *abs#155*

Phil Hansbro
Constitutive IL-13 promotes respiratory chlamydial infection and infection-induced
chronic airway hyper-responsiveness *abs#157*

Victoria Hewitt
Mitochondrial protein import and assembly in the fungal pathogen *Candida*
albicans *abs#161*

Kelly Hitchens
A central role for Mincle in recognition of Mycobacterial
TDM. *abs#163*

Gavan Holloway
Rotavirus inhibits IFN signalling by a novel mechanism that occurs after STAT
binding to importin-alpha but before nuclear import *abs#165*

Jhih-Hang Jiang
PorB from pathogenic *Neisseria* hijacks the mitochondrial import
machineries to localize in the outer mitochondrial membrane
during infection *abs#169*

Lorinda Turner

Helicobacter pylori outer membrane vesicles enter epithelial cells via endocytosis and are processed into antigen presenting exosomes. *abs#171*

Eleanor Jones

Tetraspanins CD82 and CD37 play opposing roles in innate immunity *abs#173*

Maria Kaparakis-Liaskos

Gram negative bacterial outer membrane vesicles induce NOD1-dependent autophagy and co-localise with NOD1 in the endosome. *abs#175*

Katherine Kedzierska

Inflammation-induced morbidity versus generation of protective T cell immunity in an 'interrupted' influenza infection *abs#177*

Lukasz Kedzierski

Suppressor of cytokine signalling (SOCS) 4 is a critical regulator of the anti-viral immune response *abs#179*

Surabhi Khandige

Small RNA mediators of Uropathogenic E.coli Infection *abs#181*

Mi-Yeon Kim

Ginsenoside Rp1 increases Regulatory T Cell Survival through Interaction with Dendritic Cells *abs#183*

Nathan King

Characterisation of a cell wall-anchored protein of *Staphylococcus saprophyticus* associated with linoleic acid resistance *abs#185*

Lutz Krause

Calypso - A Web Application for Visualizing and Comparing Multiple 16S rDNA Samples. *abs#187*

Andreas Kupz

Can we target innate immune recognition against chronic and lethal infections with *Salmonella enterica* in immunocompromised hosts? *abs#189*

Denisse Leyton

Size and Conformation Limits to Secretion of Disulfide-bonded Loops in Autotransporter Proteins *abs#191*

David Liebl

Salmonella phosphatase SopB triggers recruitment of Sorting nexin 18 for efficient invasion of the host cell *abs#193*

Jin Yan Lim

The Role of Rac1b in monocytes *abs#195*

Yu-Chih Liu

An antigen-focused T-cell Receptor recognition driven by the super-bulged epitope *abs#197*

Neil O'Brien-Simpson

The role of NKT cells and $\gamma\delta$ T cells in oral bacterial infection *abs#199*

Thursday, 16 February 2012

Poster Session II

8:00 PM - 9:30 PM

Exhibition Hall

Chia-Chen Lu

NK cells play a crucial role in innate immunity against

Mycobacterium kansasii infection

abs#102

Kevin Luu

TLR Signalling and STATS

abs#104

Niamh Mangan

The role of interferon epsilon in the immune response in the female reproductive tract

abs#106

Glenn Marsh

Hendra Virus surveillance and spill-over from Australian flying foxes.

abs#108

Jana McCaskill

The development of bi-functional RNAi for the treatment of acute respiratory viral infection

abs#110

Alastair McEwan

Characterisation of a copA mutant of *Neisseria gonorrhoeae* identifies a link between copper and nitrosative stress in innate immunity

abs#112

Tina McLure

Feeder Cell- and Extracellular Matrix-free Cultivation of Human Pluripotent Stem Cells using Thermo Scientific Nunclon Vita Surface and Rho-Kinase

Inhibition

abs#114

Hamish McWilliam

Identification of novel antigenic carbohydrates from the human blood fluke, *Schistosoma japonicum*.

abs#116

Jacqueline Melville

Antenatal glucocorticoids and fetal immune function

abs#118

Sabine Mihm

Tolerization of human peripheral blood mononuclear cells by bacterially-derived minicells

abs#120

Paul Monaghan

Targeting zoonotic diseases with RNAi: tracking RNAi delivery vehicles by confocal microscopy

abs#122

Danilo Moriel

Identification of protective and broadly conserved vaccine antigens from the genome of Extraintestinal Pathogenic *Escherichia coli*

abs#124

Faye Morris

SadA, a trimeric autotransporter from *Salmonella enterica* serovar Typhimurium, can promote biofilm formation and provides limited protection

against infection

abs#126

Gregory Moseley

Viral pathogenicity depends on the integration of multiple

immune evasion mechanisms mediated by distinct interferon antagonist isoforms

abs#128

Sabrina Mühlen

Cutting off the inflammatory response: Degradation of NFκB by

NleC

abs#130

Joanne O'Donnell

Fas-mediated neutrophil apoptosis is accelerated by Bid, Bak, and Bax and inhibited by Bcl-2 and Mcl-1 *abs#132*

Kruti Patel

Histidine-Rich Glycoprotein is processed by neutrophil elastase and regulates neutrophil function *abs#134*

Nicola Petty

Insights into the Evolution of Virulence in Enterohaemorrhagic Escherichia coli Revealed by Phage Metagenomics *abs#136*

Minh Phan

Characterisation of Afa/Dr Adhesins in *E. coli* ST131 *abs#138*

Xiaying Qi

Characterization of SNX18 as a new host factor targeted and activated during Salmonella invasion *abs#140*

Yue Qu

The role of mitochondria in cell wall integrity, fitness and virulence of a major human fungal pathogen *abs#142*

Susan Quinn

The regulation and control of microRNA-155 *abs#144*

Efren Rael

Autosomal Dominant Hyper IgE Syndrome Caused by a Novel Signal Transducer and Activator of Transcription 3 (STAT3) H410Y Mutation in the DNA binding domain. *abs#146*

Stephen Scally

A Structural Basis for T-cell Recognition of Post-Translationally Modified Peptides in Disease *abs#148*

Kolja Schaale

Wnt6 is expressed in granulomatous lesions of *M. tuberculosis*-infected mice and serves as a macrophage differentiation factor *abs#150*

M. Sernee

Identification and function of a novel glycosyltransferase involved in priming the biosynthesis of Leishmania mannogen *abs#152*

Adam Shahine

Structural and Functional Analysis of Rv3802c, an Essential Lipase in Mycobacterium tuberculosis *abs#154*

Phil Hansbro

Efficacy of antibiotic-based therapeutic strategies for the treatment of infection-induced, steroid-resistant allergic airways disease *abs#156*

Miguel Shingu-Vazquez

The role of the mitochondrial outer membrane proteins Sam35 and Sam37 in drug-resistance of the fungal pathogen *Candida albicans*. *abs#158*

Sebastian Stifter

Characterisation of a novel Type I Interferon, IFNε *abs#160*

Michelle Tate

Rhinovirus Replication is Confined to the Upper Respiratory Tract of Mice *abs#162*

Alison Thorburn

Bacterial product, acetate, suppresses allergic airways disease *abs#164*

Janette Tong

Staphylococcus aureus Panton-Valentine leukocidin: targeting and pore formation at mitochondria *abs#166*

Kristie Jenkins

Control of Highly Pathogenic Avian Influenza: Application of a “Drosha parallel processing cassette” in an approach for disease resistance through transgenic delivery of anti-‘flu RNAi in the chicken *abs#167*

Glen Carter

The role of toxins in the pathogenesis of hypervirulent *Clostridium difficile* isolates *abs#168*

Jhih Jiang

The targeting of the Neisserial pathogenic factor, PorB, to the mitochondrial outer membrane. *abs#170*

Lorinda Turner

Bacterial outer membrane vesicles: Size does matter after all. *abs#172*

Glen Ulett

Innate bladder responses to Escherichia coli: diverse biological pathways and role of IL-10 in defense against urinary tract infection *abs#174*

Dipti Vijayan

Mincle polarizes human innate immune responses to Candida albicans *abs#176*

Adam Wall

Membrane Retrieval and Signalling During FcγR-mediated Phagocytosis *abs#178*

Debbie Watson

Developing a Humanised Mouse Model to Investigate the Human Immune Response to Bacterial Toxins (Superantigens) *abs#180*

Chaille Webb

The ins and outs of the bacterial protein assembly machinery, BAM. *abs#182*

Linda Wiltzer

Characterisation of the STAT1-binding site in the Lyssavirus P-protein - Implications for viral immune evasion and vaccine development. *abs#184*

Wendy Winnall

Characterisation of Simian Immunodeficiency Virus-infected cells in pigtail macaques. *abs#186*

Tania Wong Fok Lung

Type III effectors of enteropathogenic *Escherichia coli* and *Salmonella* *abs#188*

Bettina Wright

Characterisation of eukaryotic-like mitochondrial carrier proteins in *Legionella longbeachae* *abs#190*

Zhe Yang

Mapping Host Cell Proteins Targeted by Salmonella Typhimurium *abs#192*

Mijung Yeom

Glucosylceramide Inhibits Lipopolysaccharide-Induced Cyclooxygenase-2 Expression by Negatively Regulating Nuclear Factor-kappa B in RAW 264.7 Macrophages Cells *abs#194*