

Tuesday, 17 April 2012

Registration

3:00 PM - 5:30 PM

Room 1

Welcome Reception

5:30 PM - 7:00 PM

Terrace

Wednesday, 18 April 2012

Welcome

9:00 AM - 9:15 AM

Grollo Room

Chair: Michelle Dunstone & Ilia Voskoboinik

Plenary Session

9:15 AM - 10:15 AM

Grollo Room

Chair: Rod Tweten

R. John Collier

Translocation of anthrax toxin into mammalian cells *abs#001*

Coffee Break

10:15 AM - 11:00 AM

Main bar & Cafe lounge

Session 1: Ultrastructure of pore-forming proteins in immunity and disease

11:00 AM - 12:30 PM

Grollo Room

Chair: Helen Saibil

11:00am

Jorge Galan

Type III secretion machines: bacterial devices for protein delivery into eukaryotic cells *abs#002*

11:30am

Natalya Lukoyanova

Molecular rearrangement during membrane pore formation by the fungal MACPF protein pleurotolysin *abs#003*

11:50am

Alejandro Heuck

Stoichiometric arrangement of the *Pseudomonas aeruginosa* type III secretion translocon *abs#004*

12:10pm

Doryen Bubeck

A structural approach to understanding assembly, regulation, and pore formation of the complement membrane attack complex *abs#005*

Lunch

12:30 PM - 1:30 PM

Main bar & Cafe lounge

Session 2: Host-pathogen interaction

1:30 PM - 3:00 PM

Grollo Room

Chair: Vern Carruthers

- 1:30pm **Ry Young**
Coordinated Destruction of Both Inner and Outer Membranes is Required in Phage Lysis *abs#006*
- 2:00pm **Dominique Ferrandon**
The host response to *Serratia marcescens* hemolysin maintains the homeostasis of the *Drosophila melanogaster* midgut epithelium *abs#007*
- 2:20pm **Julian Rood**
Structural and Functional Analysis of the Pore-Forming Toxin, NetB, from *Clostridium perfringens* *abs#008*
- 2:40pm **Marijo Roiko**
A pH Switch Regulates Cytolytic Activity of a Parasite MACPF Protein Involved in Cell Egress *abs#009*

Afternoon tea

3:00 PM - 3:30 PM

Main bar & Cafe lounge

Session 3: Cellular biology of pore forming proteins

3:30 PM - 5:15 PM

Grollo Room

Chair: Joe Trapani

- 3:30pm **Ruth Kluck**
Mitochondrial permeabilization by Bak and Bax during apoptosis *abs#010*
- 4:00pm **Eckhard Podack**
MPEG-1-encoded Perforin-2 is a pore-forming macrophage protein required for killing of invasive bacteria *abs#011*
- 4:30pm **Gregor Anderluh**
Recognition of Sphingomyelin by Pore Forming Proteins *abs#012*
- 4:50pm **Amelia Brennan**
Perforin trafficking: a tail of survival *abs#013*

Poster display (cash bar)

5:15 PM - 7:15 PM

Sala Veneziana

Thursday, 19 April 2012

Session 4: Structure, function and biotechnology

9:00 AM - 10:30 AM

Grollo Room

Chair: Ian Smith

9:00am

Hagan Bayley

Droplet networks containing engineered protein pores *abs#014*

9:30am

Raymond Norton

Roles of sphingomyelin and cholesterol in the interaction of Equinatoxin II with membranes: neutron reflection and NMR studies *abs#015*

9:50am

Mark Wallace

Rapid Assembly of Protein Pores Observed by Single Molecule Fluorescence Imaging *abs#016*

10:10am

Joseph Trapani

Small molecule inhibitors of perforin and their potential therapeutic uses *abs#017*

Tea/Coffee Break

10:30 AM - 11:00 AM

Main bar & Cafe lounge

Session 5: Cellular mechanisms

11:00 AM - 12:30 PM

Grollo Room

Chair: Iliia Voskoboinik

11:00am

Norma Andrews

Streptolysin O pores endocytosed during plasma membrane repair traffic into the lumen of MVBs for degradation *abs#018*

11:30am

Cesare Montecucco

Low pH induced entry of tetanus and botulinum neurotoxins from the neuron surface defines structural requirements and defines a model for the interaction with the membrane surface Marco Pirazzini¹, Ornella Rossetto¹ *abs#019*

11:50am

Peter Sebo

Calcium influx rescues adenylate cyclase-hemolysin from rapid cell membrane removal and enables phagocyte permeabilization by toxin pores *abs#020*

12:10pm

Jamie Lopez

Defining the lethal hit: the mechanism of perforin dependent target cell death *abs#021*

Extended lunch & Poster viewing with local wine served

12:30 PM - 3:30 PM

Main bar & Cafe lounge

Free time

3:30 PM - 6:00 PM

Your choice

Transfers to dinner

6:00 PM - 6:30 PM

To be confirmed

Conference Dinner

6:30 PM - 10:30 PM

Villa Medice La Ferdinanda

Friday, 20 April 2012

Session 6: Novel directions and late breakers

9:00 AM - 10:30 AM

Grollo Room

Chair: Gisou Van Der Goot

- 9:00am **Hilal Lashuel**
Amyloid Pore-Formation in neurodegenerative diseases *abs#022*
- 9:30am **Travis Johnson**
Identification of genes that interact with the *Drosophila* MACPF protein Torso-like *abs#023*
- 9:50am **Jeremy Lakey**
An unfolded protein, which does not bind to bilayers, causes potassium leakage and cell death in *Escherichia coli*. *abs#024*
- 10:10am **Daouda Traore**
The crystal structures of Perforin-like C2 domain reveal the basis for membrane recognition *abs#025*

Tea/Coffee Break

10:30 AM - 11:00 AM

Main bar & Cafe lounge

Session 7: Structure and function

11:00 AM - 12:40 PM

Grollo Room

Chair: Michael Parker

- 11:00am **Peter Artymiuk**
Structural studies on the clyA/nhe superfamily of toxins *abs#026*
- 11:30am **Andreas Sonnen**
Crystal structures of lysenin reveal a shared evolutionary origin of pore-forming and fusion *abs#027*
- 11:50am **Carlos Rosado**
Structural and functional studies on cholesterol-dependent cytolysins *abs#028*
- 12:10pm **Matteo Degiacomi**
The unexpected mechanism of aerolysin pore-formation *abs#029*

Panel discussion and future plans - CLOSE OF CONFERENCE

12:40 PM - 1:00 PM

Grollo Room

