

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Granulomas in Infectious and Non-Infectious Diseases (J4)

Scientific Organizers: Thomas A. Wynn, Paul Kaye and Vishva M. Dixit

Sponsored by Genentech, Inc.

Host Response in Tuberculosis (J3)

Scientific Organizers: JoAnne L. Flynn and Willem A. Hanekom

January 22-27, 2015 • Santa Fe Community Convention Center • Santa Fe, New Mexico, USA

Supported by the Directors' Fund

Abstract & Scholarship Deadline: September 29, 2014 / Abstract Deadline: October 22, 2014 / Discounted Registration Deadline: November 20, 2014

THURSDAY, JANUARY 22

Registration

FRIDAY, JANUARY 23

Keynote Address (J4)

Alberto Mantovani, Istituto Clinico Humanitas/ Milan University, Italy
Macrophage Plasticity and Polarization in Granulomatous Inflammation

Keynote Address (J3)

Clifton E. Barry III, NIAID, National Institutes of Health, USA
Human Tuberculosis: The Movie (3D)

Granulomas Associated with Type-1 Immunity (J4)

Paul Kaye, University of York, UK
Understanding Granuloma Heterogeneity in Visceral Leishmaniasis
Martin Rottenberg, Karolinska Institutet, Sweden
TB Granulomas in Humanized Mice
Jean-Laurent Casanova, Rockefeller University, USA
Role of IL-12/IFN- γ Circuit in Granulomatous Diseases of Humans
Short Talk(s) Chosen from Abstracts

Immunity in the Lung (J3)

David M. Lewinsohn, Portland VA Medical Center, USA
MAITs and Protection Against TB
Henry Charles Mwandumba, Liverpool School of Tropical Medicine, UK
TB Interactions in the Airways
H. Martin Vordermeier, Animal Health & Veterinary Laboratories Agency, UK
Lessons from Animals about TB Transmission
Short Talk(s) Chosen from Abstracts

Workshop 1: Basic Biology (J4)

Short Talks Chosen from Abstracts

Workshop 1 (J3)

Short Talks Chosen from Abstracts

Infectious and Non-Infectious Granulomatous Disease (J4)

Margherita T. Cantorna, Pennsylvania State University, USA
Vitamin D in Crohn's Disease Pathogenesis
Anthony W. Segal, University College London, UK
The Causes of Granulomatous Inflammation in CGD and in Crohn's Disease
R. Balfour Sartor, University of North Carolina at Chapel Hill, USA
Granulomatous Enterocolitis and Resident Microbiota in IBD
Short Talk Chosen from Abstracts

Early Events after TB Infection (J3)

Thomas R. Hawn, University of Washington, USA
Innate Immunogenetics of TB in Humans
Vojo Deretic, University of New Mexico Health Sciences Center, USA
Macrophage Control of TB
Sabine Ehrt, Weill Cornell Medical College, USA
TB Interactions with Macrophages
Short Talk Chosen from Abstracts

Poster Session 1

SATURDAY, JANUARY 24

Pathogenic Mechanisms in Chronic Granulomatous Disease (Joint)

JoAnne L. Flynn, University of Pittsburgh School of Medicine, USA
Heterogeneity: Local and Global
Gilla Kaplan, Bill & Melinda Gates Foundation, USA
Inflammation in Granulomas
Thomas A. Wynn, NIAID, National Institutes of Health, USA
Mechanisms of Fibrosis in Chronic Granulomatous Inflammation
Lalita Ramakrishnan, University of Washington, USA
Visualizing TB Granulomas in Zebrafish
Short Talk(s) Chosen from Abstracts

Role of Myeloid Cells in Granuloma Formation (J4)

Peter J. Murray, St. Jude Children's Research Hospital, USA
Amino Acid Metabolism by Innate Immune Cells in Granulomatous Inflammation
Frederic Geissmann, King's College London, UK
Langerhans Cell Histiocytosis, a Pediatric Granulomatous Disease
Matyas Sandor, University of Wisconsin Madison, USA
Cellular Traffic in the Maintenance and Continuous Reformation of Mycobacterial Granuloma
Short Talk Chosen from Abstracts

Bacterial Interactions with Host Cells (J3)

Sarah M. Fortune, Harvard School of Public Health, USA
Mutational Capacity of Bacteria in Granulomas
W. Henry Boom, Case Western Reserve University, USA
Modulation of T Cell Responses
Christopher M. Sassetti, University of Massachusetts Medical School, USA
Genetic Determinants of Disease
Short Talk Chosen from Abstracts

Poster Session 2

SUNDAY, JANUARY 25

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Granulomas Associated with Type-2 Immunity (J4)

Edward J. Pearce, Washington University in St. Louis School of Medicine, USA

Metabolic Reprogramming of Myeloid Cells during Granuloma Formation

William C. Gause, University of Medicine and Dentistry of New Jersey, USA

Regulation of Type-2 Inflammation and Pathology in the Lung and Gut during Nematode Infection

P'ng Loke, New York University School of Medicine, USA

Alternatively Activated Macrophages During Granuloma Formation in Schistosomiasis

Michael H. Hsieh, Stanford University School of Medicine, USA

Type-2 Granulomas and Bladder Cancer

Short Talk(s) Chosen from Abstracts

Risk of TB Disease (J3)

Thomas J. Scriba, University of Cape Town, South Africa

Risk of TB Disease in Adolescents

Katrin D. Mayer-Barber, NIAID, National Institutes of Health, USA

Balancing the Risks of TB

Stefan H. E. Kaufmann, Max Planck Institute for Infection Biology-Berlin, Germany

Risk of TB in Adults

Joel D. Ernst, New York University School of Medicine, USA

Antigen Conservation and Diversity in Human Tuberculosis

Short Talk(s) Chosen from Abstracts

Granulomatous Diseases of the Lung (J4)

Speaker to be Announced

Andrew P. Fontenot, University of Colorado Denver, USA

Gene-Environment Interactions and the Development of Chronic Beryllium Disease

Luigina Romani, University di Perugia, Italy

Chronic Inflammation in Fungal Diseases: From Basic Science to Therapeutic Intervention

Short Talk Chosen from Abstracts

B Cells Responses to TB (J3)

John R. Chan, Albert Einstein College of Medicine, USA

Modulation of Immunity by B Cells

Andrea M. Cooper, Trudeau Institute, USA

B Cell Interactions in TB

Galit Alter, Ragon Institute of MGH, MIT, and Harvard, USA

Programming Functional Antibodies Against TB

Short Talk Chosen from Abstracts

Poster Session 3

MONDAY, JANUARY 26

Computational Modeling, and Imaging, and Treatment (J4)

Annemarie H. Meijer, Leiden University, Netherlands

In vivo Study of Anti-Mycobacterial Autophagy and Granuloma Formation in the Zebrafish Model

Ronald N. Germain, NIAID, National Institutes of Health, USA

Live Imaging Anti-Mycobacterial Immunity

Vishva M. Dixit, Genentech, Inc., USA

Talk Title to be Announced

Steven Holland, NIAID, National Institutes of Health, USA

Genetics and Treatment of Chronic Granulomatous Disease

Short Talk(s) Chosen from Abstracts

Protective Immunity and Vaccines (J3)

Willem A. Hanekom, Bill & Melinda Gates Foundation, USA

Vaccines Against TB: Where Are We Going?

Steven Reed, Infectious Disease Research Institute, USA

Therapeutic Vaccines

Denise Kirschner, University of Michigan, USA

Mechanisms in Both Lymph Nodes and Lung Can Aid Protective Immunity

Robert A. Seder, NIAID, National Institutes of Health, USA

What is Needed to Protect Against TB?

Short Talk(s) Chosen from Abstracts

Workshop 2: Clinical and Translational (J4)

Short Talks Chosen from Abstracts

Workshop 2 (J3)

Short Talks Chosen from Abstracts

TB and Co-Morbidities (Joint)

Padmini Salgame, Rutgers, USA

TB and Worms

Hardy Kornfeld, University of Massachusetts Medical School, USA

TB and Diabetes

Stephen Lawn†, London School of Hygiene & Tropical Medicine / University of Cape Town, UK

TB and HIV

Short Talk Chosen from Abstracts

TUESDAY, JANUARY 27

Departure