

Oral Program

Monday, 19 September 2016

12:00–13:25	Registration Level –1 Foyer
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13:25–15:00	Opening Tindari
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13:25–13:40	B. Koppelman , <i>Cell Press, USA</i>
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	Welcome and introduction
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13:40–13:45	M. Oliverio , <i>President of the Regione Calabria, Italy</i>
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	Welcome address
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13:45–14:00	S. Gordon , <i>University of Oxford, UK</i>
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	100 years of phagocytes: Introduction to the program [Prog Intro 1]
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14:00–14:30	A. Tauber , <i>Boston University, USA</i>
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	Metchnikoff's concinnous conception of immunity [Prog Intro 2]
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14:30–15:00	L. Vikhanski ^{1,2} , ¹ <i>Weizmann Institute, Israel</i> , ² <i>Freelance science journalist, Israel</i>
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	The true story behind Metchnikoff's greatest discovery [Prog Intro 3]
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15:00–16:30	Session 1: Role of phagocytes in innate immunity Tindari
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	Chair: Giò Teti, <i>University of Messina, Italy</i>
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15:00–15:10	G. Teti , <i>University of Messina, Italy</i>
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	Innate immunity: 100 years of solitude [Ses 1 Intro]
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15:10–15:50	J. Hoffmann , <i>University of Strasbourg, France</i>
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	Innate immunity: From insects to mammals [Key.01]
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15:50–16:30	B. Beutler , <i>University of Texas Southwestern Medical Center, USA</i>
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	The new forward genetics [Key.02]
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16:30–17:00	Refreshment break Hibiscus
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17:00–18:30	Session 1: Role of phagocytes in innate immunity (cont.) Tindari
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	Chair: Nelson Gekara, <i>Umeå University, Sweden</i>
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17:00–17:15	M. Yurchenko , <i>Norwegian University of Science and Technology, Norway</i>
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	CD150 positively regulates TRAM recruitment to E. coli phagosomes and type I IFN secretion [ST.01]
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17:15–17:30	J. Martinez ^{1,2} , ¹ <i>NIEHS, USA</i> , ² <i>St. Jude Children's Research Hospital, USA</i>
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	LC3-associated phagocytosis is a critical regulator of autoimmune and inflammatory disorders [ST.02]
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17:30–18:00	J. Ting , <i>University of North Carolina, USA</i>
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	Innate immune receptors in infection, inflammation and cancer [Inv.01]
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18:00–18:30	G. Natoli , <i>European Institute of Oncology (IEO), Italy</i>
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	Transcriptional control of macrophage differentiation and function [Inv.02]
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18:30–19:30	Welcome drinks reception Hibiscus
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Tuesday, 20 September 2016

08:30–10:00	Session 2: Origin and recruitment of phagocytes Tindari
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	Chair: Lalita Ramakrishnan, <i>University of Cambridge, USA</i>
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08:30–09:00	F. Geissmann , <i>Memorial Sloan Kettering Cancer Center, USA</i>
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	Mechanisms that control specification and in vivo functions of tissue resident macrophages [Inv.03]
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09:00–09:30	A. Huttenlocher , <i>University of Wisconsin-Madison, USA</i>
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	Neutrophil reverse migration and resolution of inflammation [Inv.04]
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09:30–09:45	P. Guermontprez , <i>King's College London, UK</i>
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	Ontogeny of inflammatory macrophages and monocyte-derived dendritic cells [ST.03]
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09:45–10:00	M. Guilliams , <i>Ghent University - VIB, Belgium</i>
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	Yolk sac macrophages, fetal liver and adult monocytes are all able to colonize an empty niche and develop into functional tissue-resident macrophages [ST.04]
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10:00–10:30	Refreshment break Hibiscus Sponsored by Scylla Biotech
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10:30–11:45	Session 2: Origin and recruitment of phagocytes (cont.) Tindari
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	Chair: Lalita Ramakrishnan, <i>University of Cambridge, USA</i>
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10:30–11:00	L. Ramakrishnan , <i>University of Cambridge, USA</i>
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	How mycobacteria exploit macrophages to establish infection [Inv.05]
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11:00–11:30	J. Allen , <i>University of Manchester, UK</i>
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	Macrophages in helminth infection [Inv.06]
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11:30–11:45	Summary
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11:45–12:45	Lunch Hibiscus Sponsored by R&D Systems
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12:45–14:45	Poster session 1
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14:45–16:15	Session 3: Role of phagocytes in metabolic disease Tindari Chair: Gwendolyn Randolph, <i>Washington University, USA</i>
14:45–15:15	G.J. Randolph , <i>Washington University School of Medicine, USA</i> , ² <i>INSERM UMR_S 1166, France</i> MHC II ⁺ resident peritoneal and pleural macrophages rely on IRF4 for development from circulating monocytes [Inv.07]
15:15–15:45	G. Trinchieri , <i>National Institutes of Health, USA</i> Cancer as a disease of the symbiont/metaorganism [Inv.08]
15:45–16:00	M. Viaud , <i>INSERM, France</i> , ² <i>Columbia University, USA</i> , ³ <i>Northwestern University, USA</i> Leukocyte deletion of Glut1 prevents the glycolytic flux associated with macrophage accumulation in atheromatous plaques [ST.05]
16:00–16:15	F. Alzaid , <i>INSERM, France</i> IRF5 governs liver macrophage activation that promotes fibrosis in mice and humans [ST.06]
16:15–16:45	Refreshment break Hibiscus
16:45–18:30	Session 3: Role of phagocytes in metabolic disease (cont.) Tindari Chair: Gwendolyn Randolph, <i>Washington University, USA</i>
16:45–17:15	K.J. Moore , <i>New York University School of Medicine, USA</i> Mechanisms of macrophage retention in metabolic diseases [Inv.09]
17:15–17:45	L.A.J. O'Neill , <i>Trinity College Dublin, Ireland</i> Metabolic reprogramming in macrophages during inflammation [Inv.10]
17:45–18:15	E.R. Unanue , <i>Washington University School of Medicine, USA</i> The complex interactions between beta cells and macrophages in pancreatic islets during autoimmune diabetes [Inv.11]
18:15–18:30	Summary
18:45–22:30	"Meet the speakers" dinner—ticket holders only Restaurant Granduca Sponsored by R&D Systems
	
Wednesday, 21 September 2016	
08:30–10:00	Session 4: Cellular mechanisms of phagocytosis Tindari Chair: Nathalie Franc, <i>Scripps Research Institute, USA</i>
08:30–09:00	S. Grinstein , <i>The Hospital for Sick Children, Canada</i> Role of integrins and receptors in generating diffusion barriers that enable phagocytosis [Inv.12]
09:00–09:30	K.S. Ravichandran , <i>University of Virginia, USA</i> Eating a good apoptotic meal: Lessons from phagocytes [Inv.13]
09:30–09:45	K. McCall , <i>Boston University, USA</i> Coordination of cell death and corpse clearance in the Drosophila ovary [ST.07]
09:45–10:00	J.A. Swanson , <i>University of Michigan Medical School, USA</i> Macropinosomes as discrete units of signal transduction [ST.08]
10:00–10:30	Refreshment break Hibiscus
10:30–11:45	Session 4: Cellular mechanisms of phagocytosis (cont.) Tindari Chair: Nathalie Franc, <i>Scripps Research Institute, USA</i>
10:30–11:00	Z. Werb , <i>University of California, San Francisco, USA</i> Neutrophils: Critical components in cancer metastasis [Inv.14]
11:00–11:30	A. Zychlinsky , <i>Max Planck Institute, Germany</i> NETs—the second function of chromatin [Inv.15]
11:30–11:45	Summary
11:45–12:45	Lunch Hibiscus
12:45–14:45	Poster session 2
14:45 onwards	Free afternoon—Optional guided tours
Thursday, 22 September 2016	
08:00–10:30	Session 5: Tissue-specialized macrophages Tindari Chair: Beth Stevens, <i>Boston Children's Hospital and Harvard Medical School, USA</i>
08:00–08:30	S. Jung , <i>The Weizmann Institute of Science, Israel</i> Probing contributions of macrophages to organismal homeostasis [Inv.16]
08:30–09:00	R.M. Ransohoff , <i>Biogen Inc., USA</i> Microglia are myeloid brain cells [Inv.17]
09:00–09:15	M. Mallat , <i>INSERM, France</i> Microglia stimulate the development of cortical astrocytes in female mice [ST.09]
09:15–09:30	S. Verheijden , <i>KU Leuven, Belgium</i> Semaphorin 3A - plexin A4 signalling controls dynamic neuron-macrophage interactions in the central and enteric nervous system [ST.10]

09:30–10:00 **B. Stevens**, *Boston Children's Hospital and Harvard Medical School, USA*

How microglia eliminate synapse in health and disease [Inv.18]

10:00–10:30 **M. Kopf**, *ETH Zürich, Switzerland [Inv.19]*

Development and function of alveolar macrophages

10:30–11:00 Refreshment break | Hibiscus | Sponsored by Scylla Biotech



11:00–12:15 Session 6: Phagocytes in the tumor environment | Tindari

Chair: Romina Goldszmid, *Center for Cancer Research, NCI, USA*

11:00–11:30 **P. Martin**, *Universities of Bristol and Cardiff, UK*

Parallels between the inflammatory response in wound healing and cancer [Inv.20]

11:30–12:00 **J.W. Pollard**^{1,2}, *¹University of Edinburgh, UK, ²Albert Einstein College of Medicine, USA*

Macrophages are a cellular toolbox that promotes tumor progression and metastasis [Inv.21]

12:00–12:15 **V. Le Cabec**, *IPBS CNRS UMR5089, France*

In vivo imaging reveals a differential migration mechanism of tumor-associated macrophages [ST.11]

12:15–13:15 Lunch | Hibiscus | Sponsored by R&D Systems



13:15–14:00 Session 6: Phagocytes in the tumor environment (cont.) | Tindari

Chair: Romina Goldszmid, *Center for Cancer Research, NCI, USA*

13:15–13:45 **A. Mantovani**, *Humanitas University, Italy*

Humoral innate immunity and macrophages in tumor-promoting inflammation [Inv.22]

13:45–14:00 **C. Varol**^{1,2}, *¹Tel-Aviv Sourasky Medical Center, Israel, ²Tel-Aviv University, Israel*

Tumor macrophages are pivotal constructors of tumorigenic collagenous matrix [ST.12]

14:00–15:00 Session 7: Phagocytes and pathogen sensing | Tindari

Chair: Ivan Marazzi, *Mount Sinai School of Medicine New York, USA*

14:00–14:15 **S. Mukhopadhyay**, *Wellcome Trust Sanger Institute, UK*

Defect in human IL10 receptor signalling leads to a paradoxical defect in macrophage bacterial killing driven by PGE2 [ST.13]

14:15–14:30 **Travel award sponsored by** 

Winner

M.R. Cronan, *Duke University, USA*

Macrophage epithelial reprogramming underlies mycobacterial granuloma formation and promotes infection [ST.14]

14:30–15:00 **S.H.E. Kaufmann**, *Max Planck Institute for Infection Biology, Germany*

Phagocytes in tuberculosis: Good, bad and ugly [Inv.23]

15:00–15:30 Refreshment break | Hibiscus

15:30–16:30 Session 7: Phagocytes and pathogen sensing (cont.) | Tindari

Chair: Ivan Marazzi, *Mount Sinai School of Medicine New York, USA*

15:30–16:00 **T-D. Kanneganti**, *St. Jude Children's Research Hospital, USA*

Regulators of inflammatory responses [Inv.24]

16:00–16:30 **Z.J. Chen**, *University of Texas Southwestern Medical Center, USA*

The dark side of DNA - immune and autoimmune responses to cytosolic DNA [Inv.25]

16:30–16:45 **I. Carmi**, *Cell Press, USA*

Poster prize and concluding remarks