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Accademia
Nazionale
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CDD *press*

Host-microbe co-evolution

symbiosis, infection
and autophagy

3-4 Dec 2024

Accademia dei Lincei
Rome \ Italy

KEYNOTE LECTURE

Nicola **Segata**

University of Trento

James P. **Allison**

MD Anderson, Houston

invited speakers

Maria **Rescigno**
Noah **Palm**
Guido **Kroemer**
Gianluca **Ianiro**
Gabriele **Berg**
Simona **Radutoiu**

Andrea **Genre**
Sophien **Kamoun**
Alberto **Mantovani**
Miriam **Merad**
Padmanee **Sharma**
Laurence **Zitvogel**

Lisa **Derosa**
Bertrand **Routy**
Yufang **Shi**
Gerald **Shadel**
Hans-Uwe **Simon**
Ivan **Dikić**

Organizing Committee

Paola **Bonfante** \ Paolo **Costantino** \ Ivan **Dikić** \ Laurence **Zitvogel**
Guido **Kroemer** \ Alberto **Mantovani** \ Gennaro **Melino** \ Mauro **Piacentini**



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Host-microbe co-evolution: symbiosis, infection and autophagy

3-4 December 2024 | Accademia Nazionale dei Lincei

Palazzo Corsini | Via della Lungara 10 | Rome

Program

Day 1 | Tuesday 3rd December 2024

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| 10 ⁰⁰ | Symposium opening Roberto Antonelli (President of ANL) & Giorgio Parisi (vice Presidente of ANL) |
| 10 ¹⁵ | KEYNOTE LECTURE Host-microbiome coevolution: from understanding the past to medical applications Nicola Segata, University of Trento, Italy - <i>presented by Laurence Zitvogel</i> |
| 11 ⁰⁰ | Session 1 Host-microbe interaction: towards metabolism Chairs Maria Rescigno (Milan) & Paola Nistico' (Rome) Maria Rescigno (Humanitas University, Italy) "The microbiota in the gut-liver-brain axis" |
| 11 ³⁰ | Noah Palm (Yale University School of Medicine, New Haven, USA) "Mapping uncharted landscapes of host-microbiota communication" |
| 12 ⁰⁰ | Guido Kroemer (INSERM, Les Cordeliers, Paris, France) "Similarities of the endocrine system of yeast and humans" |
| 12 ³⁰ | Lunch (invited speakers only) |
| 14 ³⁰ | Session 2 Host-microbe interaction: mucosal regulation and cancer Chairs Guido Kroemer (Paris) & Laurence Zitvogel (Paris) Gianluca Ianiro (Sacred Heart University, Rome, Italy) "Mechanisms of gut microbiome engraftment" |
| 15 ⁰⁰ | Laurence Zitvogel (Gustave Roussy, Paris, France) "Gut microbiota and cancer immunotherapy" |
| 15 ³⁰ | Coffee break |
| 16 ⁰⁰ | Session 3 Plant, microbes and host Chairs Paolo Costantino (ANL, Rome) & Paola Bonfante (ANL, Turin) Gabriele Berg (TU Graz, Styria, Austria) "Understanding plant-microbe co-evolution for one health" |
| 16 ³⁰ | Simona Radutoiu (Aarhus university, Denmark) "Understanding how LysM receptor kinases control symbiosis & immunity in plant-microbe interactions" |
| 17 ⁰⁰ | Andrea Genre (University of Turin, Italy) "The good, the bad and the leafy: non-binary communication in plant-fungus interactions" |
| 17 ³⁰ | Sophien Kamoun (The Sainsbury Laboratory, Norwich, UK) "NLR immune receptors: making sense of the alphabet soup" |
| 18 ⁰⁰ | End of the first day |

Day 2 | Wednesday 4th December 2024

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| 10 ⁰⁰ | KEYNOTE LECTURE Immune Checkpoint Blockade in Cancer Therapy: Distinct Biologies of CTLA-4 and PD-1 Blockade James P. Allison, MD Anderson (Houston), Nobel Prize 2018 - presented by Guido Kroemer |
| 11 ⁰⁰ | Session 4 Commensalism at interface with innate and cognate immunity Chairs Padmanee Sharma (Houston) & Alberto Mantovani (Milan) Alberto Mantovani (Milan, Humanitas University) "Macrophage-driven tumor promoting inflammation" Miriam Merad (Mount Sinai, NYC, USA) "Regulation of tertiary lymphoid structures formation and maintenance in tumors" Padmanee Sharma (MD Anderson, Houston, USA) "From the clinic to the lab: investigating mechanisms of response and resistance to immune checkpoint therapy" |
| 11 ³⁰ | |
| 12 ⁰⁰ | |
| 12 ³⁰ | Lunch (invited speakers only) |
| 14 ⁰⁰ | Session 5 Immunity and microbiota-centered interventions Chairs Gerry Melino (Rome) & Ivan Đikić (Frankfurt) Lisa Derosa (Gustave Roussy, Villejuif, France) "Antibiotics and immunity: insights from multi-omic analyses" Bertrand Routy (CHUM, Montréal, Canada) "Understanding donor-patient compatibility in fecal microbiota transplantation trials in oncology" |
| 14 ³⁰ | |
| 15 ⁰⁰ | Coffee break |
| 15 ³⁰ | Session 6 Cell death modalities against pathogens Chairs Mauro Piacentini (Rome) & Hans-Uwe Simon (Bern) Yufang Shi (Soochow University, China) "Impact of thymic oleic acid on iTreg Differentiation" Gerald Shadel (SALK Institute, San Diego, USA) "Mitochondrial nucleic acid-mediated innate immune signaling" Hans-Uwe Simon (University of Bern, Switzerland) "The role of ion channels in NET formation" Ivan Đikić (University of Frankfurt, Germany) "Pathogenic proteotoxicity of cryptic splicing" |
| 16 ⁰⁰ | |
| 16 ³⁰ | |
| 17 ⁰⁰ | |
| 17 ³⁰ | Closing remarks and end of the second day |

Organizing Committee

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