



AKIA Biennial Scientific Conference

Immune effectors and regulators in homeostasis and pathology

August 5, 2022

Hope Memorial Building Room #216
Yale University School of Medicine

Association of Korean Immunologists in America
Rheumatology, Allergy & Immunology,
Yale University School of Medicine

- 08:00-08:30AM Registration
- 08:30-08:35AM Welcome Remarks
Richard Bucala (Chief of Rheumatology, Allergy & Immunology at Yale Univ.)
- 08:35-08:40AM Welcome Remarks and AKIA Publication Award Ceremony
Woong-Kyung Suh (AKIA President)
- 08:40-09:30AM Keynote presentation: Mechanisms of Tissue Damage in Lupus
Joseph Craft (Yale Univ.)

Session 1: Viral Immunity

Session Chair: Seungmin (Sam) Hwang (Vir Biotech.)

- 09:30-09:50AM Immunology of vaccines against respiratory viruses: Influenza, SARS-CoV-2, human respiratory syncytial virus.
Sang-Moo Kang (Georgia State Univ.)
- 09:50-10:10AM NK cell-dependent granzyme B causes epithelial ulceration during HSV-2 infection.
Haina Shin (Washington Univ. in St. Louis)
- 10:10-10:30AM Identification of LRRC15 as a novel inhibitory receptor for SARS-CoV-2 using the Surfaceome CRISPR activation screen.
Sang Hyun Lee (Brown Univ.)
- 10:30-10:50AM Sponsor talk (Diamond): Monitoring SARS-CoV2-specific B cell memory.
Greg Kirchenbaum (ImmunoSpot)
- 10:50-11:10AM Coffee break

Session 2: Innate Immunity

Session Chair: Chang Kim (Univ. of Michigan)

- 11:10-11:30AM Sponsor talk (Diamond): IL-7 therapy: Oncology & Beyond, NT-I7 (efineptakin alfa, a long-acting human IL-7) clinical development.
Byung Ha Lee (NeoImmune)
- 11:30-11:50AM Targeting Schnurri-3 to suppress bone loss in inflammatory arthritis.
JaeHyuck Shim (Univ. of Massachusetts)
- 11:50-12:10PM Chitinase/Chitinase-like Proteins: Old Molecules with New Biological Function in Human Diseases.
Chun Lee (Brown Univ.)
- 12:10-12:30PM Chimeric Antigen Receptor (CAR)-NK cell immunotherapy.
Seung Hwan Lee (Univ. of Ottawa)
- 12:30-01:30PM Lunch

Session 3: Development/Homeostasis of Immune System

Session Chair: Woong-Kyung Suh (IRCM, Montreal Clinical Research Institute)

- 01:30-01:35PM Sponsor talk (Gold): A novel mRNA delivery system & SARS-CoV-2 mRNA vaccine.
Tae Hyong Kim (Eyegene)
- 01:35-02:00PM Generation of the human brain organoids with the functional microglia
In-Hyun Park (Yale Univ.)
- 02:00-02:20PM Cytokine-driven circuitry of innate CD8 T cell generation in the thymus.
Hyun Park (NIH/NCI)
- 02:20-02:40PM Mobilization of bone marrow ILC progenitors
Chang Kim (Univ. of Michigan)
- 02:40-03:00PM Heterogeneity of macrophages and their roles in the peritoneum.
Ki-Wook Kim (Univ. of Illinois at Chicago)
- 03:00-03:20PM Epigenetic Modifier Mutations in Hematopoietic Stem Cells and Their Impact on Mature Immune Cells.
Minji Byun (Mount Sinai)
- 03:20-03:40PM Coffee break

Session 4: Adaptive immunity

Session Chair: Hyun Park (NIH/NCI)

- 03:40-04:00PM Iron Homeostasis and naive T cell maintenance.
Cheong-Hee Chang (Univ. of Michigan)
- 04:00-04:20PM T follicular regulatory cells in humoral immunity.
Woong-Kyung Suh (IRCM, Montreal Clinical Research Institute)
- 04:20-04:40PM ERAP2: making cancer cells vulnerable to T cell killing.
Eun Lee (Virginia Commonwealth Univ.)
- 04:40-05:00PM Increased mitochondrial metabolism is required for immunologic function in age-associated B cells. Sun Jung Kim (The Feinstein Institutes for Medical Research)
- 05:00-05:25PM VISTA (PD-1H) is a crucial immune regulator to limit pulmonary fibrosis.
Min-Jong Kang (Yale Univ.)
- 05:25-05:30PM Closing Remarks
Woong-Kyung Suh (AKIA President)

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