

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Fibrosis and Tissue Repair: From Molecules and Mechanics to Therapeutic Approaches (Q6)

Scientific Organizers: Shannon J. Turley and Thomas A. Wynn

Supported by the Directors' Fund

Stromal Cells in Immunity and Disease (Q5)

Scientific Organizers: Scott N. Mueller, Jason G. Cyster, Reina E. Mebius and Theresa T. Lu

February 19-23, 2020 • Fairmont Empress Victoria • Victoria, British Columbia, Canada

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 17, 2019 / Abstract Deadline: November 20, 2019 / Discounted Registration Deadline: December 18, 2019

WEDNESDAY, FEBRUARY 19

Arrival and Registration

THURSDAY, FEBRUARY 20

Welcome and Keynote Session (Joint)

David A. Brenner, University of California, San Diego, USA
Linking Inflammation and Myofibroblast Activation

Ruslan Medzhitov, HHMI/Yale University School of Medicine, USA
Macrophage-Fibroblast Circuits

Tissue Fibroblasts and Pericytes in Fibrosis (Q6)

Jonathan M. Kurie, University of Texas MD Anderson Cancer Center, USA
The Fibrotic Tumor Stroma

Yuval Rinkevich, Helmholtz Zentrum München, Germany
Fibroblastic Lineages Drive Dermal Development and the Transition from Regeneration to Scarring

Scott M. Turner, Pliant Therapeutics, USA
Identification and Evaluation of Small Molecule Integrin Inhibitors: From Cell Systems to Human Trials

Short Talk(s) Chosen from Abstracts

Stromal Cells in Lymphoid Tissue Development (Q5)

Burkhard Ludewig, Kantonsspital St. Gallen, Switzerland
Stromal Cells Orchestrate Lymphoid Tissue Development

Reina E. Mebius, Amsterdam UMC-VUmc, Netherlands
Ways by which Stromal Cells Control Autoreactive Lymphocytes

Sanjiv A. Luther, University of Lausanne, Switzerland
Stromal Cell Development and Function within Secondary Lymphoid Organs

Short Talk Chosen from Abstracts

Workshop 1 (Q6)

Short Talks Chosen from Abstracts

Workshop 1 (Q5)

Short Talks Chosen from Abstracts

Myeloid Cells in Fibrosis (Q6)

Shizuo Akira, Osaka University, Japan
Atypical Monocytes in Multi-Organ Fibrosis

Harris Perlman, Northwestern University, USA
Monocyte Derived Macrophages in Inflammation and Fibrosis

Frank Tacke, University Hospital Aachen, Germany
Macrophage Heterogeneity in Liver Homeostasis, Inflammation, and Fibrosis

Short Talk(s) Chosen from Abstracts

Stromal Cells and Immunity in Non-Lymphoid Tissues (Q5)

Theresa T. Lu, Hospital for Special Surgery/Weill Cornell Medicine, USA

Langerhans Cells and Skin Protection in Lupus Photosensitivity

Shruti Naik, New York University, USA

Inflammatory Tuning of Epithelial Stem Cells

Tatiana V. Petrova, CHUV, University of Lausanne, Switzerland
Lymphatic Vascular Development and Remodeling

Short Talk Chosen from Abstracts

Poster Session 1

FRIDAY, FEBRUARY 21

Therapeutic Advances in Organ Fibrosis (Q6)

Naftali Kaminski, Yale University School of Medicine, USA
Dysregulated Cellular Networks in Pulmonary Fibrosis – Lessons from Single Cell Studies

Rachel C. Chambers, University College London, UK
mTOR Signaling in Pulmonary Fibrosis

Katalin Susztak, University of Pennsylvania, USA
Fatty Acid Oxidation in Tubular Epithelial Cells Regulates Kidney Fibrosis

Harry (Hal) C. Dietz, Johns Hopkins University School of Medicine, Blade Therapeutics, USA

New Mechanisms and Vulnerabilities of Fibrosis

Short Talk(s) Chosen from Abstracts

Stromal Cell Functions in Primary and Secondary Lymphoid Tissues (Q5)

Paul S. Frenette, Albert Einstein College of Medicine, USA
Bone Marrow Stromal Niches

Joao Pereira, Yale University School of Medicine, USA
Bone Marrow Stromal Cells and Hematopoiesis

Tomoya Katakai, Niigata University, Japan
Stromal Cell Diversity in Lymph Nodes

Beth A. Tamburini, University of Colorado Denver Anschutz Medical Campus, USA

Control of Immune Responses in Lymph Nodes by Lymphatic Endothelial Cells

Short Talk Chosen from Abstracts

Workshop 2 (Joint)

Short Talks Chosen from Abstracts

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Fibrosis and Tissue Repair: From Molecules and Mechanics to Therapeutic Approaches (Q6)

Scientific Organizers: Shannon J. Turley and Thomas A. Wynn

Supported by the Directors' Fund

Stromal Cells in Immunity and Disease (Q5)

Scientific Organizers: Scott N. Mueller, Jason G. Cyster, Reina E. Mebius and Theresa T. Lu

February 19-23, 2020 • Fairmont Empress Victoria • Victoria, British Columbia, Canada

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 17, 2019 / Abstract Deadline: November 20, 2019 / Discounted Registration Deadline: December 18, 2019

Balancing Inflammation and Fibrosis in Cardiac Fibrosis (Q6)

Stuart A. Cook, Duke-NUS Graduate Medical School Singapore, Enleofen, Singapore
Therapeutic Targeting of IL-11 to Reverse Fibrosis and Inflammation in Lung, Kidney, Heart and Liver Disease

Pilar Alcaide, Tufts University School of Medicine, USA
T Cell Regulation of Cardiac Fibrosis

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

Endothelial Cells in Immunity and Disease (Q5)

Melody A. Swartz, University of Chicago, USA
Role of Lymphatic Endothelial Cells in the Regulation of T Cell Memory

Cornelia Halin, ETH Zürich, Switzerland
Leukocyte Migration through Afferent Lymphatic Vessels

Ulrich H. Von Andrian, Harvard Medical School, USA
Lymphocyte Patrol of Blood Vessel Endothelium

Short Talk Chosen from Abstracts

Poster Session 2

SATURDAY, FEBRUARY 22

New Strategies for Hepatic and Biliary Fibrosis (Q6)

Thomas A. Wynn, Pfizer, USA
Targeting Type 1 and Type 2 Fibrosis and Tissue Regeneration

Tatiana Kisseleva, University of California, San Diego, USA
The Role of Mesothelin in the Pathogenesis of Parenchymal Organs

Scott L. Friedman, Icahn School of Medicine at Mount Sinai, USA
Targeting CCR2/5 in the Treatment of Nonalcoholic Steatohepatitis and Fibrosis

Christine Kim Garcia, Columbia University Medical Center, USA
Insights from Human Genetic Studies of Organ Fibrosis

Short Talk(s) Chosen from Abstracts

Stromal Cells in Cancer and Anti-Tumor Immunity (Q5)

Amanda Lund, Oregon Health & Science University, USA
Lymphatic Vessels Coordinate Peripheral Tissue/Tumor Immune Responses

Anne Fletcher, Monash University, Biomedicine Discovery Institute, Australia
Fibroblast Subsets and Functions within Tumors

Ruth Ganss, Harry Perkins Institute of Medical Research, Australia
Stromal Remodeling and Targeting in Cancer

Jacqui Shields, University of Cambridge, UK
Stromal Cell Functions in the Tumor Microenvironment

Distinct and Common Mechanisms of Fibrosis Revealed by Different Tissues (Q6)

Florian Rieder, Cleveland Clinic, USA
Linking Fibrosis in Ulcerative Colitis with the Severity of Mucosal Inflammation

Speaker to be Announced

Valerie M. Weaver, University of California, San Francisco, USA
Tissue Tension Induces Matricellular Fibrosis and Tumor Progression in Pancreas

Short Talk(s) Chosen from Abstracts

Stroma Cell Contributions During Infection and Inflammation (Q5)

Scott N. Mueller, University of Melbourne, Australia
Splenic Stromal Cell Responses to Infection

Susan R. Schwab, New York University School of Medicine, USA
Lymphatic Endothelial Cell S1P Support for Lymphocyte Migration and Survival

Marc Bajénoff, Centre d'Immunologie Marseille-Luminy, France
Regulation of Lymphoid Stromal Cell Networks

Short Talk Chosen from Abstracts

Poster Session 3

SUNDAY, FEBRUARY 23

Progenitor Cells in Tissue Repair and Organ Regeneration (Q6)

Speaker to be Announced

Meritxell Huch, University of Cambridge / Max Planck Institute of Molecular Cell Biology and Genetics, UK
Stem Cells and Tissue Regeneration in Liver and Pancreas

Harold A. Chapman, University of California, San Francisco, USA
Lung Progenitors in Epithelial Renewal Following Injury

Joseph R. Arron, Genentech, Inc., USA
Reprogramming Pathogenic Cells to Promote Tissue Repair

Short Talk(s) Chosen from Abstracts

Interrogating Stromal Functions in Disease (Q5)

Michael B. Brenner, Harvard Medical School, USA
Stromal Cells that Drive Inflammation in Tissues

Lucie Peduto, Institut Pasteur, France
Mesenchymal Cells in Pathology and Tissue Repair

George A. Kollias, Alexander Fleming Biomedical Sciences Research Center, Greece
Mesenchymal Cells in Inflammatory Disease

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Fibrosis and Tissue Repair: From Molecules and Mechanics to Therapeutic Approaches (Q6)

Scientific Organizers: Shannon J. Turley and Thomas A. Wynn

Supported by the Directors' Fund

Stromal Cells in Immunity and Disease (Q5)

Scientific Organizers: Scott N. Mueller, Jason G. Cyster, Reina E. Mebius and Theresa T. Lu

February 19-23, 2020 • Fairmont Empress Victoria • Victoria, British Columbia, Canada

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 17, 2019 / Abstract Deadline: November 20, 2019 / Discounted Registration Deadline: December 18, 2019

Ankur Singh, Cornell University, USA

Immune Organoids to Study Immunity and Epigenetics in Health and Diseases

Short Talk Chosen from Abstracts

Workshop 3 (Q6)

Short Talks Chosen from Abstracts

Workshop 3 (Q5)

Short Talks Chosen from Abstracts

New Directions in Dissecting Stromal Cell Functions (Joint)

Stuart Forbes, University of Edinburgh, UK

Liver Stem Cells and Tissue Regeneration

Jason G. Cyster, HHMI/University of California, San Francisco, USA

Stromal Cells as Orchestrators of Humoral Immunity

Shannon J. Turley, Genentech, Inc., USA

Stromal Cells in Cancer Immunology and Immunotherapy

Short Talk Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q6)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q5)

MONDAY, FEBRUARY 24

Departure