

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Role of the Genital Tract Microbiome in Sexual and Reproductive Health (S6)

December 11-15, 2018 • Southern Sun Cape Sun • Cape Town, Western Cape, South Africa

Scientific Organizers: Janneke van de Wijgert, Jeanne Marrazzo, Douglas Kwon and Jo-Ann Passmore

Part of the Keystone Symposia Global Health Series, supported by the Bill & Melinda Gates Foundation

Global Health Travel Award Deadline: July 10, 2018 / Abstract & Scholarship Deadline: August 14, 2018 / Abstract Deadline: September 12, 2018 / Discounted Registration Deadline: October 11, 2018

TUESDAY, DECEMBER 11

Arrival and Registration

WEDNESDAY, DECEMBER 12

Welcome and Keynote Address

Jeanne M. Marrazzo, University of Alabama at Birmingham, USA
Talk Title to be Announced

Vaginal Microbiology

Jacques Ravel, University of Maryland School of Medicine, USA
Progress Towards an In-Depth Understanding of the Vaginal Microbiome

David Fredricks, Fred Hutchinson Cancer Research Center, USA
The Vaginal Microbiota and Bacterial Vaginosis

Jean Macklaim[†], University of Western Ontario, Canada
The Latest Insights about Lactobacillus Iners

Short Talk(s) Chosen from Abstracts

Genital Tract Microbiology and Metabolomics

Caroline M. Mitchell, Massachusetts General Hospital, USA
Microbiota of the Female Upper Genital Tract

Aaron A. R. Tobian, Johns Hopkins University, USA
Male Genital Tract Microbiota: Insights into HIV Acquisition

Greg T. Spear[†], Rush Medical College, USA
Vaginal Metabolomics

Short Talk Chosen from Abstracts

Poster Session 1

THURSDAY, DECEMBER 13

Genital Tract Immunology

Jo-Ann S. Passmore, University of Cape Town, South Africa
Overview of Female and Male Genital Tract Immunology in Relation to Microbiota

Jordan K. Kyongo, LVCT Health, Kenya
Associations between Vaginal Microbiota and Immune Mediators in the Vaginal Biomarkers Study in Kenya, South Africa and Rwanda

Rupert Kaul, University of Toronto, Canada
Targeting the Genital Microbiota to Optimize the Mucosal Immune Milieu

Paul J. Hertzog, Hudson Institute of Medical Research, Australia
The Role of IFN- ϵ in the Immune Homeostasis of the Female Genital Tract

Short Talk(s) Chosen from Abstracts

Genital Tract Mucosal Defenses and Biofilms

Melissa M. Herbst-Kralovetz, University of Arizona, USA
In vitro Systems to Study Genital Tract Mucosal Defenses

Hans Verstraelen, Ghent University, Belgium
Study of In Vivo Biofilms of the Female Genital Tract

Tania Crucitti, Institute of Tropical Medicine, Belgium
Vaginal Microbiota and Biofilms in a Clinical Trial of the NuvaRing in Rwanda

Short Talk Chosen from Abstracts

Poster Session 2

FRIDAY, DECEMBER 14

Genital Tract Microbiota Associations with HIV

Douglas S. Kwon, Harvard Medical School, USA
Overview of Genital Tract Microbiota associations with HIV, Including Potential Mechanisms

Lindi Masson, University of Cape Town Medical School, South Africa
Metaproteomics approaches to Understand Mucosal Inflammation and Target Cell Activation Associated with HIV Acquisition in African Women

Nichole R. Klatt, University of Washington, USA
Vaginal Bacteria Differentially Metabolize Antiretroviral Drugs – Evidence from Clinical Trials and in-vitro Studies

Thomas J. Hope, Northwestern University, USA
Deconvolution Microscopy to Study Interactions between Microbes and Mucosal Barriers and Mucus

Short Talk(s) Chosen from Abstracts

Genital Tract Microbiota Associations with Pregnancy and Neonatal Complications

Gregory A. Buck, Virginia Commonwealth University, USA
Overview of Genital Tract Microbiota associations with Pregnancy and Neonatal Complications (and Infertility), Including an Update on Vaginal Microbiome Consortium Studies

David MacIntyre, Imperial College London, UK
Vaginal microbiota and poor outcomes of pregnancy

Daniel DiGiulio[†], Stanford University, USA
Microbial Invasion of the Amniotic Cavity in Relation to Preterm Birth

Short Talk Chosen from Abstracts

Poster Session 3

SATURDAY, DECEMBER 15

Vaginal Dysbiosis Prevention and Treatment Interventions I

Jennifer E. Balkus, University of Washington, USA
Overview of Antibiotic and Antifungal Interventions

Janneke van de Wijgert, University of Liverpool, UK
Systematic Review of Vaginal Probiotics

Craig R. Cohen, University of California, San Francisco, USA
Update on Live Biotherapeutic Trials to Prevent Vaginal Dysbiosis and HIV

Catriona Susan Bradshaw, Monash University, Australia
Partner Treatment Studies

Short Talk(s) Chosen from Abstracts

Vaginal Dysbiosis Prevention and Treatment Interventions II

Sharon Hillier, University of Pittsburgh School of Medicine, USA
Effect of Sex Hormones on the Vaginal Microbiota and Multipurpose Prevention Technologies

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Clare Cutland[†], University of the Witwatersrand, South Africa

Group B Streptococcus (GBS) Carriage Clinical Interventions

Adam J. Ratner[†], New York University School of Medicine, USA

Targeting Pathobionts (such as GBS) and Biofilms

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

SUNDAY, DECEMBER 16

Departure