

# First international workshop on **Sexual dimorphism in cancer**

**March 22-26 2021  
ONLINE VIA ZOOM**

## **Monday March 22**

*16.00-19.30 Swiss Time (11 am -2 pm East Coast US; 8-11 am West Coast US)*

**16:00-16:10**            **Introductory remarks and overview**  
**Gian Paolo Dotto**

### **SESSION 1 – Gender medicine, sex determination and cancer susceptibility**

**16:10-16:35.**            **Ongoing efforts in gender medicine**  
**Sabine Oertelt-Prigione**  
*Professor of Gender in Primary and Transmural Care, Radboud University , Nijmegen, The Netherlands Sabine.Oertelt-Prigione@radboudumc.nl*

**16:35-17:00**            **Sex differences in epidemiology of non-sex related cancers**  
**Melinda Schuurman & Jaïke Praagman**  
*Netherlands Cancer Registry, M.Schuurman@iknl.nl and j.praagman@IKNL.NL*

**17:00-17:25**            **Sex differences in response to anticancer drugs and immune therapy**  
**Anna Dorothea Wagner and Berna Özdemir**  
*Consultant Department of Oncology Lausanne University Hospital CHUV/ Bern University Hospital (Inselspital) dorothea.wagner@chuv.ch Berna.oezdemir@insel.ch*

**17:25-17:40**            **Break**

**17:40-18:00**            **Beyond dimorphism – Disentangling the science in cancer care for transgender and non-binary people**

**Dr Alison May Berner**

*Speciality Trainee and Clinical Research Fellow in Medical Oncology*

*Barts Cancer Institute & Specialist Registrar in Gender Identity  
Gender Identity Clinic, Tavistock and Portman NHS Foundation Trust  
alison.berner@nhs.net*

- 18:00-18:25**      **Genetic basis of sex determination**  
**Robin.Lovell-Badge**  
*Head of the Laboratory of Stem Cell Biology and Developmental  
Genetics at the Francis Crick Institute Robin.Lovell-  
Badge@crick.ac.uk*
- 18.25 -18:50**      **The sex of the intestine and why it matters**  
**Irene Miguel-Aliaga**  
*Genes and Metabolism Section Chair, MRC London Institute of  
Medical Sciences, and Professor of Genetics and Physiology, Imperial  
College i.miguel-aliaga@lms.mrc.ac.uk*
- 19:00-20:00**      **Meet the speakers roundtable.**

## **Tuesday March 23**

*16:00-19:00 pm Swiss Time (11 am -1:30 pm East Coast US; 8-10:30 am West Coast US)*

### **SESSION 2 – Genetic predisposition and cancer cells genetics**

- 16:00-16:25**      **Twins, hormones and cancer risk factors**  
**Jaakko Kaprio**  
*Professor of Genetic Epidemiology, Department of Public Health,  
Faculty of Medicine & Institute for Molecular Medicine FIMM, HiLIFE  
University of Helsinki jaakko.kaprio@helsinki.fi*
- 16:25-16:50**      **Genetic determinants of cancer susceptibility : a look to the  
future**  
**Allan Balmain**  
*Professor of Cancer Genetics, UCSF allan.Balmain@ucsf.edu*
- 16:50-17:15**      **X chromosome silencing and biological impact**  
**Jeannie Lee**  
*Professor of Genetics (Pathology), Harvard Medical School, Molecular  
Biologist, Massachusetts General Hospital  
lee@molbio.mgh.harvard.edu*
- 17:15-17:30**      **Break**
- 17:30-17:55**      **“Gender specificity in DNA damage response pathways”**  
**Laura Zannini**  
*Group leader, Institute of Molecular Genetics, National Research  
Council (IGM-CNR), Pavia, IT laura.zannini@igm.cnr.it*

**17:55–18:20**      **“The molecular epidemiology of somatic mutations: how does patient sex influence cancer evolution?”**  
**Paul C. Boutros**  
*Group leader, UCLA PBoutros@mednet.ucla.edu*

**19:00-20:00**      **Meet the speakers roundtable**

### **Wednesday March 24**

*16:00-19:00 pm Swiss Time (11 am -2 pm East Coast US; 8-11 am West Coast US )*

#### **SESSION 3 – gene mutations and cancer**

**16:00-16:25**      **Tumor-suppressor genes that escape from X-inactivation**  
**Andrew Lane**  
*Broad Institute of Harvard and MIT, and Department of Medical Oncology, Dana-Farber Cancer Institute, Harvard Medical School, Cambridge, Massachusetts, USA, andrew\_lane@dfci.harvard.edu*

**16:25-16:50**      **Sex disparity and the p53 signaling network**  
**Sue Haupt and Yigal Haupt**  
*Peter MacCallum Cancer Centre, 305 Grattan St, Melbourne, Victoria 3000, Australia sue.haupt@petermac.org*

**16:50-17:15**      **Sex differences in glioblastoma**  
**Joshua B. Rubin**  
*Professor of Pediatrics, Hematology and Oncology, Washington University School of Medicine in St. Louis, [rubin\\_j@wustl.edu](mailto:rubin_j@wustl.edu)*

**17:15-17:30**      **Break**

**17:30-17:55**      **Pancreatic Cancer**  
**Alexandros Tzatsos**  
*Group leader, School of Medicine and Health Science, George Washington University, atzatsos@email.gwu.edu*

**17:55-18:20**      **Novel sex-specific molecular etiology of human hepatocellular**  
**Kenneth Buetow**  
*Professor and Director **Center for Evolution and Medicine**, Arizona State University  
[Kenneth.Buetow@asu.edu](mailto:Kenneth.Buetow@asu.edu)*

**18:30-19:30**      **Meet the speakers roundtable**

### **Thursday March 25**

*16:00-19:00 pm Swiss Time (11 am -2 pm East Coast US; 8-11 am West Coast US)*

#### **SESSION 4 – Hormones and cancer**

- 16:00- 16:25**            **Structure/function**  
**Eva Estébanez-Perpina**  
*AR Group leader Institute of Biomedicine of the University of Barcelona (IBUB), [evaestebanez@ub.edu](mailto:evaestebanez@ub.edu)*
- 16:25-16:50**            **Role of local sex steroid synthesis and metabolism in hormonal carcinogenesis**  
**Matti Poutanen**  
*Professor of Physiology, Institute of Biomedicine, University of Turku, Finland [matpou@utu.fi](mailto:matpou@utu.fi)*
- 16:50-17:15**            **Finding Dory: hormone exposure, mutational signatures and estrogen receptor defines the early oncogenesis processes at play in the cell of origin of breast cancer**  
**Luca Magnani**  
*Group leader, Imperial College London,. [l.magnani@imperial.ac.uk](mailto:l.magnani@imperial.ac.uk)*
- 17:15-17:30**            **Break**
- 17:30-17:55**            **Sex hormones signaling in male breast cancer**  
**Wilbert Zwart**  
*Group leader, Netherlands Cancer Institute (NKI), [w.zwart@nki.nl](mailto:w.zwart@nki.nl)*
- 17:55-18:20**            **ER signaling and Melanoma**  
**Todd Ridky**  
*Group leader Department of Dermatology, U. Penn, [ridky@pennmedicine.upenn.edu](mailto:ridky@pennmedicine.upenn.edu)*
- 18:20-18:45**            **AR signaling in skin cancer**  
**Soumitra Ghosh / Min Ma**  
*UNIL, Department of Biochemistry, [soumitra.ghosh@unil.ch](mailto:soumitra.ghosh@unil.ch)  
[min.ma@unil.ch](mailto:min.ma@unil.ch)*
- 18:45-19:00**            **Break**
- 19:00-20:00**            **Meet the speakers roundtable**

## **Friday March 26**

*16:00-17:00 pm Swiss Time (11 am -12 pm East Coast US; 8-9 am West Coast US)*

## **SESSION 5 - FRONTIERS AND OPPORTUNITIES**

- 16:00-16:25**            **Gender differences in metabolism**  
**Adriana Maggi**  
*Professor of Pharmacological Biotechnologies, University of Milan, [adriana.maggi@unimi.it](mailto:adriana.maggi@unimi.it)*

- 16:25-16:50**            **“Gene-by-sex interactions regulating mitochondrial functions and cardio-metabolic traits”**  
**Aldons Jake Lusic**  
*[JLusic@mednet.ucla.edu](mailto:JLusic@mednet.ucla.edu)*
- 16:50-17:15**            **“Sex differences in brain development and function: Implications for comorbidity of psychiatric and cardiovascular outcomes”**  
**Jill Goldstein**  
*Professor of Psychiatry and Medicine, Harvard Medical School;  
Executive Director, Innovation Center on Sex Differences in Medicine,  
Massachusetts General Hospital, [jill\\_goldstein@hms.harvard.edu](mailto:jill_goldstein@hms.harvard.edu)*
- 17:15-17:30**            **Break**
- 17:30-18:00**            ***ICPI life time achievement cancer prevention award***  
**Tony Howell**  
*<http://www.breastcentre.manchester.ac.uk/Research-Groups/Tony-Howell> [Anthony.Howell@manchester.ac.uk](mailto:Anthony.Howell@manchester.ac.uk)*
- 18:00-18:50**            **Poster awards (with awardees’ speed talks)**
- 18:50-19:15**            **Sexual dimorphism in cancer : meeting overview**  
**Sarah Seton.Rogers**  
*Chief Editor, Nature Reviews Cancer  
[S.Seton-Rogers@nature.com](mailto:S.Seton-Rogers@nature.com)*
- 19:15 – 19:30**            **Concluding remarks**  
**G. Paolo Dotto**