

## PROGRAMME

### WEDNESDAY, 10<sup>TH</sup> FEBRUARY

- 17:00 – 18:00 Registration/Beverages
- 18:00 – 18:10 Opening remarks
- 18:10 – 19:00 Keynote I: **Jim Darnell:** (New York/USA): *Looking back in order to look forward*
- 19:00 – 21:00 Get together

## THURSDAY, 11<sup>TH</sup> FEBRUARY

### Session I: **Jak/Stat Structure and Regulation**

**Chairs: Douglas Hilton, Pavel Kovarik**

- 09:00 – 09:25 **Uwe Vinkemeier** (Nottingham/UK): *Cytokine-induced paracrystals of activated STATs facilitate the cross-regulation of signaling pathways by interferon-gamma*
- 09:25 – 09:50 **Fred Schaper** (Aachen/GER): *More than JAKs and STATs: New insights into the regulation of interleukin-6 signal transduction*
- 09:50 – 10:10 Coffee and Tea Break
- 10:10 – 10:35 **Sandra Pellegrini** (Paris/FR): *Parameters governing interferon alpha2/beta differential activities*
- 10:35 – 10:50 **Serge Haan**: (Luxembourg/LUX): *Regulation of Jak activity-structural and functional considerations*
- 10:50 – 11:05 **Gerhard Müller-Newen** (Aachen/GER): *The role of N-terminal domain in dimerization and nucleocytoplasmic shuttling of latent Stat3*
- 11:05 – 11:15 **Gerardo Ferbeyre** (Montreal/CAN): *Regulation of the p53 pathway by the suppressor of cytokine signaling-1*
- 11:15 – 11:35 Coffee and Tea Break

### Session II: **Negative Regulation**

**Chairs: Alexander Dalpke, Iris Behrmann**

- 11:35 – 12:00 **Doug Hilton** (Melbourne/AUS): *Genetic dissection of signalling pathways*
- 12:00 – 12:25 **Jim Johnston** (Belfast/UK): *SOCS2 deficiency results in an enhanced TH2 differentiation and allergic responses*
- 12:25 – 14:00 **Lunch Break and 1<sup>st</sup> Poster Session**
- 14:00 – 14:25 **Thorsten Heinzel** (Jena/GER): *Role of the ubiquitinating enzymes UBCH8 and SIAH in proteasomal turnover of receptor-associated tyrosine kinases JAK2 and TYK2*

14:25 – 14:40 **Vijay Shanker** (Basel/CH): *Protein phosphatase 2A is a negative regulator of interferon signaling through the Jak-Stat pathway*

**Session III: Transcriptional Regulation and Epigenetics**

**Chairs: John O'Shea, Thomas Decker**

14:40 – 15:05 **Rod Bremner** (Toronto/CAN): *New epigenetic components in the interferon signaling network*

15:05 – 15:25 **Olli Silvennoinen** (Tampere/FIN): *Insights into the functional domains of JAK2*

15:25 – 15:40 **Shreevrat Goenka** (Indianapolis/USA): *PARP-14 functions as a transcriptional switch for Stat6 dependent transcription*

15:40 – 16:00 Coffee and Tea Break

16:00 – 16:25 **Ana Costa-Pereira** (London/UK): *Novel components of JAK/STAT signalling pathways identified using FACS-based siRNA screens*

16:25 – 16:50 **Willis Li** (Rochester/USA): *Non-canonical JAK/STAT signaling: A role in heterochromatin stability*

16:50 – 17:05 **Mario Köster** (Braunschweig/GER): *Temporal and spatial resolution of type I and type III IFN responses in vivo*

## FRIDAY, 12<sup>TH</sup> FEBRUARY

### Session IV: Jaks, Stats and Cancer

**Chairs: Valeria Poli, Robert Eferl**

- 09:00 – 09:45 Keynote II: **George Stark** (Cleveland/USA): *Novel posttranslational modifications of STAT1 and STAT3*
- 09:45 – 10:10 **David Levy** (New York/USA): *Non-canonical functions of STAT3 in growth and tumorigenesis*
- 10:10 – 10:35 **Valeria Poli** (Torino/IT): *Oncogenic activities of constitutively active STAT3*
- 10:35 – 10:55 Coffee and Tea Break
- 10:55 – 11:20 **Mark Dawson** (Cambridge/UK): *Chromatin modification – a nuclear role for Jak2*
- 11:35 – 12:00 **Friedemann Horn** (Leipzig/GER): *The oncological significance of transcriptional control of non-protein-coding RNA genes by Stat3*
- 12:00 – 12:15 **Antonis Koromilas** (Montreal/CAN): *ErbB2 signals to Stat1 with significant implications in transformation and mammary gland tumourigenesis*
- 12:15 – 14:00 **Lunch Break and 2<sup>nd</sup> Poster Session**

### Session V: Jaks and Stats in Immune Responses to Tumors

**Chairs: David Levy, Wolfgang Mikulits**

- 14:00 – 14:25 **Veronika Sexl** (Vienna/AUT): *An unexpected role for Stat1<sup>S727A</sup> in NK cell – the license to kill*
- 14:25 – 14:50 **Giorgio Inghirami** (Torino/IT): *Unveiling the pathogenetic role of Stat3 in human lymphoma*
- 14:50 – 15:15 **Shai Izraeli** (Tel Aviv/ISR): *The CRLF2-JAK-STAT pathway in acute lymphoblastic leukemias*
- 15:15 – 15:30 **Anthony Green** (Cambridge/UK): *Molecular pathogenesis of the myeloproliferative disorders*

15:30 – 15:50 Coffee and Tea Break

**Session VI: Jaks and Stats in Infection, Inflammation and Autoimmunity**  
**Chairs: Christine Biron, Sandra Pellegrini**

15:50 – 16:15 **Christian Schindler** (New York/USA): *Interferons direct an effective innate response to Legionella pneumophila infection*

16:15 – 16:40 **Curt Horvath** (Chicago/USA): *Activation and inhibition of interferon signaling and antiviral responses*

16:55 – 17:20 **Ulrich Kalinke** (Hannover/GER): *Local type I IFN receptor signaling protects against virus spread within the central nervous system*

17:20 – 17:35 **Iain L. Campbell** (Sydney/AUS): *Interferon (IFN)-alpha mediates lethal inflammatory disease in the brain in the absence of interferon regulatory factor (IRF) 9*

## SATURDAY, 13<sup>TH</sup> FEBRUARY:

### Session VII      **Development and Cell Differentiation**

**Chairs: Richard Moriggl, Ernst Müllner**

- 09:00 – 09:25      **Kay-Uwe Wagner** (Lincoln/USA): *The significance of Jak2/Stat5 signaling for mammary development and tumorigenesis*
- 09:25 – 09:50      **Lothar Hennighausen** (Bethesda/USA): *Cytokine-STAT5 signaling in mammary stem and progenitor cells*
- 09:50 – 10:15      **Isabelle Dusanter-Fourt** (Paris/FR): *Stat5a and Stat5b: two false-twins regulating hematopoiesis and carcinogenesis*
- 10:15 – 10:30      **Christine Watson** (Cambridge/UK): *Stat3 regulates cell death by modulating PI3K signalling and cathepsin activity in involuting mammary gland*
- 10:30 – 10:50      Coffee and Tea Break

### Session VIII:      **Jaks and Stats in the Regulation of Immunity and Immunopathology**

**Chairs: Birgit Strobl, Veronika Sexl**

- 10:50 – 11:15      **John O'Shea** (Bethesda/USA): *Update from Bethesda (Bldg 10)*
- 11:15 – 11:40      **Mark Kaplan** (Indianapolis/USA): *Programming of T helper cells by STAT proteins*
- 11:40 – 12:05      **Christine Biron** (Providence/USA): *Type 1 IFN Effects: Stat4- and Stat1-dependent mechanisms for regulating NK and CD8 T Cell responses during viral infections*
- 12:05 – 12:20      **Stephanie S. Watowich** (Houston/USA): *Regulation of plasmacytoid dendritic cell development by STATs*
- 12:20 – 12:35      **Katherine J. Seidl** (Cambridge/USA): *Selective functional inhibition of Jak3 kinase is sufficient for efficacy in collagen-induced arthritis in mice*
- 12:35 – 12:45      Poster-Award
- 12:45 – 13:00      Concluding Remarks of Organisers / Beverages / End of Meeting