



15TH INTERNATIONAL CONFERENCE
TUMOR NECROSIS FACTOR
20-23 MAY 2015 GHENT

Chairs

Peter Vandenabeele & Henning Walczak

Local secretariat

Veronique Vandevoorde



Wednesday 20th May 2015

From 11:00 **Registration**

12:45 **Welcome**

Session 1 – “TNF signalling in cell death and inflammation”

13:00-15:05

Chairs: Henning Walczak (London, UK) and Nozomi Takahashi (Ghent, Belgium)

13:00 **Manolis Pasparakis** (Cologne, Germany)

RIP kinase 1 in TNF signalling and inflammation

13:25 **Francis Chan** (Worcester, Massachusetts, USA)

Inflammatory Functions of Necroptosis Signal Adaptors

13:50 **Rebecca Feltham** (London, UK)

MINDBOMB: a novel RIPK1-interacting E3 ubiquitin Ligase that protects from the cytotoxic effects of TNF

14:15 **James Murphy** (Parkville, Australia)

Flicking the switch: an evolutionarily conserved mechanism underlies MLKL-driven cell death

14:40 **William Kaiser** (Atlanta, Georgia, USA)

Viral modulation of extrinsic cell death pathways

****Coffee break****

****15:05-15:35****

Session 1 – “TNF signalling in cell death and inflammation” (continued)

15:35-17:40

Chairs: Francis Chan (Worcester, Massachusetts, USA) and Wim Declercq (Ghent, Belgium)

- 15:35 **John Silke** (Melbourne, Australia)
Skin Deep: insights into the character of TNF signalling in the skin from genetic and biochemical studies
- 16:00 **Lucia Taraborrelli** (London, UK)
HOIP regulates skin homeostasis
- 16:25 **Martin Leverkus** (Mannheim, Germany)
cFLIP is an important inhibitor of epidermal TNF induction and protects from TNF-induced apoptosis
- 16:50 **Liming Sun** (Shanghai, China)
MLKL navigates the TNF signaling from membrane back to membrane
- 17:15 **Jiahuai Han** (Xiamen, China)
Dynamics of TNF signaling pathways

17:40-18:30

Tribute to Prof. Em. Walter Fiers

Chairs: Hilde Cheroutre (San Diego, California, USA) and Peter Vandenabeele (Ghent, Belgium)

Peter Vandenabeele: *Where are we?*

Laudatory speeches

Bart Vanhaesebroeck - Claude Libert - Hilde Cheroutre - André Van de Voorde

Bart Vanhaesebroeck (Professor of Cell Signalling, UCL Cancer Institute, London, UK)
Claude Libert (Principal Investigator, Inflammation Research Center, VIB, Ghent, Belgium)
Hilde Cheroutre (La Jolla Institute for Allergy and Immunology, San Diego, US)
and André Van de Voorde (Manager-Consultant, Ghent, Belgium)

Alternated with Classical Concert by Morandi String Quartet

Violin: Kathelijne Vinkeroye; Violin: Se-Yun Lee;
Viola: Traudi Helmberger; Cello: Hans-Ludwig Becker
W.A. Mozart, Quartet KV 387 (Allegro vivace assai)
F. Schubert, Der Tod und das Mädchen, 2nd section (Andante con motto)
G. Verdi, movement from Opera “Luisa Miller”, string quartet transcription by Muzio

Honorary Reception

18:35-19:20

First Keynote Lecture

19:30-20:15

Chair: Peter Vandenabeele (Ghent, Belgium)

Shigekazu Nagata (Osaka, Japan):

“Exposure of phosphatidyl serine during apoptosis and engulfment of dead cells”

Poster Session 1 with drinks and walking dinner

20:15-22:15



Thursday 21st May 2015

Session 2 – “Death receptor signaling, recognizing and eating the dead”

08:30-10:35

Chairs: You-Sun Kim (Suwon, Korea) and Martin Leverkus (Mannheim, Germany)

- 08:30 **Avi Ashkenazi** (San Francisco, California, USA)
New insights into death receptor signaling
- 08:55 **Motti Gerlic** (Tel Aviv, Israel)
Fas controls neutrophil lifespan during viral and bacterial infection
- 09:20 **Alessandra Pescatore** (Naples, Italy)
NEMO regulates a transcription-independent cell death switch in TNF signalling
- 09:45 **Mathieu Bertrand** (Gent, Belgium)
NF- κ B-independent inactivation of RIPK1 by IKK α / β prevents RIPK1-dependent apoptotic and necroptotic cell death during TNF signaling
- 10:10 **Kodi Ravichandran** (Charlottesville, Virginia, USA)
Apoptotic cell clearance and regulation of inflammation

*** Coffee break***

10:35-11:10

Session 3 – “Death receptors , caspases and kinases in inflammation and cell death”

11:10-13:15

Chairs: Pascal Meier (London, UK) and John Silke (Melbourne, Australia)

- 11:10 **David Wallach** (Rehovot, Israel)
Anti-inflammatory functions of caspase-8
- 11:35 **Thirumala-Devi Kanneganti** (Memphis, Tennessee, USA)
Regulators of Inflammatory Responses
- 12:00 **Mohamed Lamkanfi** (Ghent, Belgium)
Inflammasomes switch between cell death modes as a function of caspase availability and inflammatory priming state
- 12:25 **Mireille Delhase** (Nagoya, Japan)
TBK1 controls an atypical NF- κ B-dependent survival pathway after TNF challenge
- 12:50 **Jaehwan Song** (Seoul, South Korea)
Post-translational modifications of RIPK3 protecting cells from necroptosis

Lunch break

13:15-14:30

Session 3 – “Death receptors , caspases and kinases in inflammation and cell death” (continued)

14:30-15:45

Chairs: David Wallach (Rehovot, Israel) and Thirumala-Devi Kanneganti (Memphis, Tennessee, USA)

- 14:30 **Vishva Dixit** (San Francisco, California, USA)
Role of the RHIM domain in RIPK1 mediated signaling
- 14:55 **Tom Vanden Berghe** (Ghent, Belgium)
Passenger mutations confound interpretation of all congenic knockout mice
- 15:20 **Lynn Wong** (Zurich, Switzerland)
RIPK3 affects tumor progression and invasion independent of necroptotic function

Session 4 – “TNF/TNFR SFs in immunity and autoimmunity”

15:45-17:00

Chairs: Sergei Nedospasov (Moscow, Russia) and Claude Libert (Ghent, Belgium)

- 15:45 **Hilde Cheroutre** (San Diego, California, USA)
The TNF family is in control at the mucosal borders of the intestine
- 16:10 **Arianne Richard** (Cambridge, UK)
A functional genetic perspective on the TNF superfamily in autoimmune disease
- 16:35 **Tania Watts** (Toronto, Canada)
The contextual role of GITR/GITRL interactions in anti-viral immunity

*** Coffee break ***

17:00-17:25

Session 5 – “TNF/TNFR SF members and other checkpoints in inflammation and cancer immunology”

17:25-19:30

Chairs: Masayuki Miura (Tokyo, Japan) and Dirk Elewaut (Ghent, Belgium)

- 17:25 **Mick Croft** (San Diego, California, USA)
Non-canonical interactions with Galectins that control TNFR family activity
- 17:50 **Holbrook Kohrt** (Stanford, California, USA)
TNFRSF9 agonists to enhance efficacy of tumor-targeting antibodies
- 18:15 **Sergio Quezada** (London, UK)
Defining the impact of the tumour microenvironment in the activity of immune-modulatory antibodies
- 18:40 **Martin Glennie** (Southampton, UK)
Designing immunostimulatory anti-TNFR mAb to promote anti-cancer immunity
- 19:05 **Peter Krammer** (Heidelberg, Germany)
Annexin-mediated regulation: a new immunological checkpoint

****Poster Session 2 with drinks and walking dinner****

****19:30-21:30****



Friday 22nd May 2015

Session 6 – “TNF SF in cancer, homeostasis and autoimmunity”

08:30-10:35

Chairs: Nancy Ruddle (New Haven, Connecticut, USA) and Peter Krammer (Heidelberg, Germany)

- 08:30 **William Dougall** (Seattle, Washington, USA)
RANKL in the initiation of breast cancer
- 08:55 **Marcos Vidal** (Glasgow, UK)
Drosophila TNF controls the systemic response to tumour growth
- 09:20 **Ulrich Eisel** (Groningen, Netherlands)
Translating TNFR signalling into neuroprotective strategies: Proof of concept in acute models of Alzheimer’s disease using humanized TNFR mice
- 09:45 **Benoit Salomon** (Paris, France)
Regulatory T cells control CNS autoimmunity by the TNF/TNFR2 pathway
- 10:10 **Andrey Kruglov** (Moscow, Russia)
TNF and lymphotoxin in intestinal homeostasis and autoimmunity control

****Coffee break****

****10:35-11:10****

Session 7 – “TNF, ubiquitin E3s and deubiquitinases”

11:10-12:50

Chairs: Liming Sun (Shanghai, China) and Mohamed Lamkanfi (Gent, Belgium)

- 11:10 **David Komander** (Cambridge, UK)
New insights into ubiquitin signalling
- 11:35 **Peter Draber** (London, UK)
An unexpected interplay between LUBAC and deubiquitinases at signalling complexes
- 12:00 **Fuminori Tokunaga** (Gunma, Japan)
Linear ubiquitin binding of Optineurin regulates NF- κ B activation and apoptosis
- 12:25 **Domagoj Vucic** (San Francisco, California, USA)
Regulation of inflammatory signaling and cell death by ubiquitination

Lunch break

12:50-14:30

Poster Session 3

14:30-16:30

Session 8 – “TNF and its effects on global gene expression patterns”

16:30-17:20

Chairs: Anje Cauwels (Ghent, Belgium) and Geert van Loo (Ghent, Belgium)

- 16:30 **Lionel Ivashkiv** (New York, USA)
Epigenetic regulation of TNF responses in human macrophages
- 16:55 **Rivka Dikstein** (Rehovot, Israel)
Transcriptional and post-transcriptional effects of TNF α and DSIF

Second Keynote Lecture

17:20-18:05

Chair: Henning Walczak (London, UK)

David Baltimore (Pasadena, California, USA)

Control of Inflammatory mRNA Biogenesis

Reception and Dinner at Museum of Fine Arts Ghent

Guided visit to restoration of Ghent Altarpiece (Mystic Lamb) in the museum

19:30-22:30

Party in city center

Club Central (beautiful setting)

(Latin-American music - Salsa – Merengue – Bachata)

22.30 - ...



Saturday 23rd May 2015

Session 9 – “The Ripoptosome: a signalling platform for cell death and more”

09:30-10:45

Chairs: Tom Vanden Berghe (Ghent, Belgium) and Wim Vanden Berghe (Antwerp, Belgium)

- 09:30 **Pascal Meier** (London, UK)
RIPK1-mediated regulation of tissue fitness
- 09:55 **James Vince** (Parkville, Australia)
Dissecting the Ripoptosome: a new driver of inflammatory disease
- 10:20 **Seamus Martin** (Dublin, Ireland)
An Inflammatory Perspective on Necroptosis

Coffee break

10:45-11:05

Session 10 – “TL1a, TWEAK, FN14, LIGHT, HVEM and other BAFFling friends of TNF”

11:05-13:10

Chairs: Marion MacFarlane (Leicester, UK) and Emmanuel Dejardin (Liège, Belgium)

- 11:05 **Linda Burkly** (Boston, Massachusetts, USA)
The Tweak/Fn14 pathway in renal tales of woe
- 11:30 **Harald Wajant** (Würzburg, Germany)
Fn14 and its ligand TWEAK regulate signaling of TRAF2 utilizing receptors
- 11:55 **Pascal Schneider** (Epalinges, Switzerland)
Mutants uncoupling receptor binding from biological effects reveal how BAFF/BLyS signals
- 12:20 **John Sedy** (San Diego, California, USA)
Lymphoma-Associated Mutant Herpesvirus Entry Mediator Selects for B and T Lymphocyte Attenuator Inhibitory signaling
- 12:45 **Marja Mikkola** (Helsinki, Finland)
Ectodysplasin/NF- κ B pathway in mammary cell fate specification

Concluding remarks

Peter Vandenabeele & Henning Walczak

13:10-13:15

13:15 **End of the meeting**