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SFB 542:
Molecular mechanisms of cytokine-mediated inflammatory processes:
Signal transduction and pathophysiological consequences

3rd International Aachen Workshop on Cytokine Signalling

Universitätsklinikum Aachen

October 3 - 5, 2002

Final Program

Scientific organization:

Peter C. Heinrich, Aachen
Iris Behrmann, Aachen
Serge Haan, Aachen
Heike M. Hermanns, Aachen
Gerhard Müller-Newen, Aachen
Fred Schaper, Aachen

Congress venue:

Universitätsklinikum, RWTH Aachen
registration: Seminarraum No. 4, ground floor, Flur 46
sessions: Lecture hall 6, ground floor, Flur 25
Pauwelsstr. 30
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Thursday, October 3, 2002

14.00 h	Opening remarks	**P. C. Heinrich,** Aachen

Session 1: Mechanisms of Cytokine Receptor Activation

Chairpersons: ***S. Werner (Zurich), M. Thelen (Bellinzona)***

14.15	Receptor recognition by gp130 cytokines	**J. K. Heath,** Birmingham
14.45	Mechanisms of erythropoietin receptor activation: Role of the membrane-spanning and juxtamembrane sequences	**S. N. Constantinescu,** Brussels
15.15	Studies on IL-6 signal transduction in living cells by the use of fluorescent fusion proteins and confocal microscopy	**G. Müller-Newen,** Aachen
15.35	Structural taxonomy of cytokine signalling pathways	**J. F. Bazan,** Palo Alto
16.05	***Intermission***	

Session 2: Signal transduction by inflammatory mediators

Chairpersons: ***T. Decker (Vienna), D. Häussinger (Düsseldorf)***

16.35	Novel physiological roles for SOCS-1	**R. Starr** Melbourne
17.05	Signal transduction pathways activated by toll-like receptors	**L. A. O´Neill,** Dublin
17.35	Role of JAB1/CSN5 in the signalling of the cytokine macrophage migration inhibitory factor (MIF)	**J. Bernhagen,** Aachen
17.55	Smad7 as inhibitor of TGF-beta signal transduction and fibrogenesis	**S. Dooley,** Aachen
19.00 -22.00	***Wine, beer and cheese party Zahn 7, Universitätsklinikum***	

Friday, October 4, 2002

Session 3: Signalling via Jak/STAT

Chairpersons: ***J. J. O´Shea (Bethesda), H.-G. Joost (Potsdam-Rehbrücke)***

9.00	Signalling through Jaks and STATs	**I. M. Kerr**, London
9.30	Further insights into the tyrosine kinase Tyk2	**S. Pellegrini**, Paris
10.00	Structure/function analysis of Janus kinase 1: cytokine receptor association, intracellular localization and its role in receptor surface expression	**I. Behrmann**, Aachen
10.20	***Intermission***	
10.50	Oncostatin M – not just another IL-6-type cytokine?	**H. M. Hermanns**, Aachen
11.10	Role and regulation of STAT1 serine phosphorylation	**T. Decker**, Vienna
11.40	Design and use of a cytokine receptor-based interaction trap	**J. Tavernier**, Ghent
12.10	***Luncheon*** ***Zahn 7, Universitätsklinikum***	

Session 4: Gene Regulation

Chairpersons: ***A. Yoshimura (Fukuoka), J. Floege (Aachen)***

14.30	Analysis of mammalian signalling pathways	**G. R. Stark,** Cleveland
15.00	Regulation of STAT and IRF transcription factors in infection, inflammation, and cancer	**D. E. Levy**, New York
15.30	Regulation of STAT-mediated gene activation	**O. Silvennoinen**, Tampere
16.00	Function and regulation of the Myc/Max/Mad network	**B. Lüscher,** Aachen
19.00 -22.30	***Dinner, Kasteel Bloemendal, Vaals, The Netherlands*** ***After dinner beer in a local pub of the old city of Aken***	

Saturday, October 5, 2002

Session 5: Cellular Responses

Chairpersons: ***G. R. Stark (Cleveland), W. Jahnen-Dechent (Aachen)***

9.00	Roles for Oncostatin M in hematopoiesis	**A. Miyajima**, Tokyo
9.30	Unbalanced signalling through gp130 spontaneously induces autoimmunity and rheumatoid arthritis-like disease	**T. Hirano**, Osaka
10.00	The role of STAT3 and of its isoform STAT3-α or -β in the signalling by different cytokines	**V. Poli**, Torino
10.30	Signalling by IL-12 and γc-cytokines	**J. J. O´Shea**, Bethesda
11.00	Mechanisms of keratinocyte growth factor action in epithelial homeostasis and repair	**S. Werner**, Zurich
11.30	***Intermission***	

Session 6: Modulation of Signalling

Chairpersons: ***D. E. Levy (New York), R. Wetzker (Jena)***

12.00	Negative regulation of cytokine signalling by SOCS and SPRED	**A. Yoshimura**, Fukuoka
12.30	Contribution of SHP2 and SOCS3 for IL-6 signal attenuation	**F. Schaper**, Aachen
12.50	Role of phosphorylation in SOCS function	**J. A. Johnston**, Belfast
13.20	Analysis of STAT transcription mechanisms	**C. M. Horvath**, New York
13.50	Regulation of Jak activity and cytokine signaling by members of the SH2-B family of adapter proteins	**C. Carter-Su**, Ann Arbor
14.20	***Luncheon*** ***Zahn 7, Universitätsklinikum***	
16.15 -17.00	***Guided tour through the cathedrale***	