Sunday, April 26

13:00-19:00  Arrival and registration
19:00-19:20  Marc Feldmann & David Wallach
            Welcome
19:20-20:00  David Baltimore
            Keynote Lecture: Orchestration of the TNF response by messenger RNA stability and micro RNAs
20:00-22:00  Reception/Posters

Monday, April 27

8:30-10:00  SESSION 1: Roles of the TNF Family in Tissue Homeostasis and Normal Development
            Chairpersons: Nancy Ruddle & Joseph Penninger
8:30-8:50   Joseph Penninger
            Beyond bones - the multiple functions of RANKL-RANK
8:50-9:00   Christopher G. Mueller
            Hair follicle RANK-ligand regulates epithelial growth via Bcl-3
9:00-9:20   Marja Mikkola
            TNFs in hair and mammary gland development
9:20-9:30   Christopher Hughes
            TNF Primes Endothelial Cells for Angiogenic Sprouting - mechanism
9:30-9:45   Nancy Ruddle
            LTα Contributes to Lymphatic Vessel Development and Function
9:45-10:00  Masayuki Miura
            TNF signaling and its physiological roles in Drosophila

10:00-10:20  Coffee break

10:20-12:05  SESSION 2: Roles of the TNF Family in Cancer
            Chairpersons: Frances Balkwill & Avi Ashkenazi
10:20-10:40  Yoseph Yarden
            The EGFR Pathway: Recent Lessons in Signal Transduction
10:40-10:50  Araceli Garcia-Castro
            Study of APRIL expression and APRIL-mediated signaling in breast cancer
10:50-11:05  William Dougall
            Role of RANKL in Tumorigenesis and Metastasis
11:05-11:15  Zhihai Qin
            TNF-mediated myeloid cells survival is necessary for tumor growth
11:15-11:25  Qiuyan Liu
            Fas promotes lung cancer growth by recruiting suppressor cells
11:25-11:35  Maria Ulvmar
            NF-κB inhibition & skin cancer: role of TNFR1 in keratinocytes
11:35-11:45  Yoshiro Maru
            Activation of TLR4 in pre-metastatic phase: crosstalk with TNF
11:45-12:05  Frances Balkwill
Mechanisms of the tumor-promoting action of TNF-α in epithelial tumors

12:05-12:30
ROUND TABLE DISCUSSION
Cancer and Homeostasis

12:30-13:50
Lunch / Posters

13:50-15:45
SESSION 3: Novel Aspects of Signaling Activation by the TNF Family
Chairpersons: Daniela Männel & David Wallach

13:50-14:15
Aharon Ciechanover
Non-canonical modes of ubiquitination in regulation of transcription: processing of the NF-κB p105 and activation of Polycomb Repressive Complex 1

14:15-14:35
Vishva Dixit
Signaling lessons from death receptor

14:35-14:50
Geert van Loo
In vivo study of the role of A20, using genetically modified mice

14:50-15:05
Anning Lin
Regulation of TNF-induced JNK activation and inflammation by SMOR1

15:05-15:20
Fumiyo Ikeda
Selective binding of linear ubiquitin chains to NEMO

15:20-15:35
Avi Ashkenazi
Role of caspase-8 polyubiquitination in cell-extrinsic apoptosis signaling

15:35-15:45
Henning Walczak
Novel ubiquitin ligase required for efficient TNF-induced NF-κB activation

15:45-16:05
Coffee break

16:05-19:05
SESSION 4: Transcriptional Networks and Systems Biology
Chairpersons: Mark Boldin, Alexander Hoffmann & Leroy Hood

16:05-16:10
Alexander Hoffmann
Introduction to TNF Signaling Networks

16:10-16:15
Marie Metzig
Characterization of novel TNFα/NF-κB signaling components by RNAi

16:15-16:20
Sina Bartfeld
RNAi screen identifies new factors important for NF-κB activation & termination

16:20-16:30
Nicolas Bidere
CK1α, NF-κB activation, and human lymphoma cell survival

16:30-16:40
Kazuyuki Yoshizaki
Pathogenic role of IL-6 with TNFα or IL-1 on the induction of acute phase proteins

16:40-16:50
Emmanuel Dejardin
New insights in LTβR-mediated NF-κB activation

16:50-17:00
Alexander Hoffmann
The NF-κB signaling system as an integrator of diverse signals

17:00-17:10
Tomoko Asaoka
Mathematical modeling of the TNFa signaling pathway

17:10-17:20
Inna Lavrik
Dynamics within the CD95 DISC decide life and death of cells

17:20-17:30
Kathrin Schmich
TNF sensitizes hepatocytes to FasL-induced apoptosis: a math model

17:30-17:45
ROUND TABLE DISCUSSION
TNF Signaling Networks and Systems Biology

17:45-18:00
Coffee break

18:00-18:05
Mark Boldin
Introduction to TNF gene regulatory and miRNA networks

18:05-18:15
Deborah Veis Novack
Distinct Functions for p65 and RelB in the Osteoclast

18:15-18:25
Stuart A Rushworth
Interrelationship between NF-κB, Nrf2 & KEAP1 in controlling TNF response

18:25-18:35
Elisabetta S. Ferraris
AATF is a novel activator of the c-Jun transcription factor upon UV-light exposure

18:35-18:45
Mark Boldin
MiRNA miR-146 is a key regulator of autoimmunity and inflammation
Thursday, April 27

18:45-18:55 Juan P. Patrón
MicroRNA-146a protects from TNFα-induced apoptosis

18:55-19:05 Yajaira Suárez
miRNA Regulation of Endothelial Cell Responses to TNF

19:05-19:20 ROUND TABLE DISCUSSION
Gene regulatory network and miRNAs

20:20-22:00 Posters

Tuesday, April 28

8:30-11:45 SESSION 5: Roles of the TNF Family in Infectious Diseases and Interrelationship of the TNF Family and Pattern Recognition Receptor Signaling
Chairpersons: Tania Watts & Jürg Tschopp

8:30-8:50 Luke O’Neill
The IL-1 receptor / Toll-like receptor superfamily: 10 years of progress

8:50-9:10 Shige Nagata
Activation of innate immune reaction by mammalian DNA that escaped from degradation, leading to anemia and arthritis

9:10-9:30 Jürg Tschopp
Malarial hemozoin is a Nalp3 inflammasome activating danger signal

9:30-9:40 Nikoletta Papadopoulou
Cell-autonomous role of TNFR & TLR signaling in antibacterial immunity

9:40-9:50 Christine Chio
Beyond TNFR signaling: the multifunctionality of TRADD

9:50-10:00 You-Sun Kim
Function of TRADD in signaling through TNFR1 and TRIF-dependent TLRs

10:00-10:25 Coffee break

10:25-10:45 Tania Watts
4-1BB and related TNFR family members in CD8 T cell responses to viruses

10:45-10:55 Bernhard Ryffel
Critical role of members of TNF in mycobacterial infection

10:55-11:05 Nasiema Allie
TNF Produced by Macrophages & Neutrophils is Required for Pulmonary

11:05-11:15 Ali Alejo
A critical role of the poxvirus CrmD protein, a TNF and chemokine binding protein, in immune evasion and pathogenesis

11:15-11:25 Raffaella Gozzellino
Heme sensitization to TNF cell death in outcome of Plasmodium infection

11:25-11:35 Joseli Lannes-Vieira
TNF signaling promotes heart tissue damage in Trypanosoma infection

11:35-11:45 Mathias Heikenwalder
A lymphotoxin-driven pathway to hepatocellular carcinoma

11:45-12:20 ROUND TABLE DISCUSSION
Infection and Pattern Recognition Receptor Signaling

12:30-13:50 Lunch / Posters

TWO PARALLEL SESSIONS FOLLOW

13:50-16:20 SESSION 6: Novel Aspects of Immune Regulation by the TNF Family
Chairpersons: Linda Burkly & Stephan Targan

13:50-14:10 Stephan Targan
TL1A (TNFSF15): a master regulator of mucosal inflammation

14:10-14:30 Richard Siegel
TL1A-DR3 interactions in T-cell mediated autoimmunity

14:30-14:50 Eckhard Podack
Control of Treg by TNFR25 in health and disease

14:50-15:00 Hiroyuki Kayamuro
Identification of new candidates as mucosal vaccine adjuvant in TNF family cytokines
15:00-15:20 Linda Burkly
Role of TWEAK/Fn14 in intestinal inflammation and tissue repair

15:20-15:30 Ana B. Sanz
TWEAK induces proliferation in renal tubular epithelium

15:30-15:40 Gerald J. Atkins
The Effects of TWEAK and TNF on Human Osteoblasts

15:40-16:00 Coffee break

16:00-16:10 Martin Ehrenschwender
TWEAK regulates proinflammatory TNF receptor-1 signaling

16:10-16:20 Maria Pellegrini
Fn14: a common structural framework for species sequence divergence

13:50-16:20 SESSION 7: Control of Lymphocyte Function and Repertoire by the TNF Family
Chairpersons: Carl Ware & Jeff Browning

13:50-14:10 Carl Ware
Unconventional ligand activation of HVEM mediates cell survival

14:10-14:30 Jennifer L. Gommerman
A novel role for the lymphotoxin pathway in dendritic cell function

14:30-14:50 Taishin Akiyama
RANK and CD40 cooperatively regulate central tolerance in thymus

14:50-15:00 Daniela N. Männel
TNFR2 in T-cell activation

15:00-15:10 David H. Wagner, Jr
The role of CD40 T cells in autoimmune diabetes

15:10-15:20 Lourdes Planelles
APRIL restores B cell survival and LPS response in Btk-KO mice

15:20-15:30 Herbert Schwarz
Regulation of hematopoiesis by CD137

15:30-15:40 Roy A. Fava
LTβR-pathway promotes B-cell accumulation largely via CXCL-13 expression

15:40-16:00 Coffee break

16:00-16:10 Cecile Benezech
Differential requirement of LTβR during the maturation of lymph node anlagen stroma

16:10-16:20 Ewen Gallagher
Analysis of B lymphocyte TNF member signalling utilizing Mekk1ΔKD transgenic mice

16:30-17:00 ROUND TABLE DISCUSSION
Roles of the TNF Family in Immune Regulation

17:00–18:45 SESSION 8: Novel Aspects of the Functions of the TRAFs and cIAPs
Chairperson: John Silke & Domagoj Vucic

17:00-17:20 Michael Karin
Protein ubiquitination cascades and signaling by TNF & Toll receptors

17:20-17:40 Xiaodang Wang
A signaling pathway from TNF receptor to cell death

17:40-17:55 Hao Wu
Crystal structure of TRAF6: mechanism of TRAF6-mediated ubiquitination

17:55-18:05 Techno Tenev
TRAF2 balances the levels of cIAP1 & cIAP2

18:05-18:15 Andreas Wicovsky
TRAF1 enhances proinflammatory TNFR2 signaling

18:15-18:30 Domagoj Vucic
cIAPs are critical regulators of TNF family mediated signaling

18:30-18:45 John Silke
The cIAP1 and cIAP2 interacting domain of TRAF2 is important for TNF
Wednesday, April 29

8:30-9:45  SESSION 9: Advances in Applying Our Knowledge to Therapy  
Chairpersons: Marc Feldmann & Ravinder Maini

8:30-8:55  Ravinder Maini  
An update on lessons learned from anti-TNF therapy of RA

8:55-9:10  Jeffrey Browning  
Blockade of LT-LIGHT pathway and the treatment of autoimmune disease

9:10-9:25  David Szymkowski  
Comparative studies of selective inhibitors of soluble TNF

9:25-9:45  Leroy Hood  
Systems biology and systems medicine: catalyzing the transition from reactive to proactive medicine

TWO PARALLEL SESSIONS FOLLOW

9:50-12:20  SESSION 10: Mechanisms of Pathological & Therapeutic Effects of the TNF Family  
Chairpersons: Ravinder Maini & Claud Libert

9:50-10:00  Dirk Elewaut  
TNF driven activation of NKT cells regulates combined gut and joint inflammation

10:00-10:10  Anna Yarilina  
TNF priming of type I IFN responses in monocytes and macrophages

10:10-10:20  Belinda Nedjai  
Infliximab has a proinflammatory action in TRAPS patients

10:20-10:40  Coffee break

10:40-10:55  Sergei A. Nedospasov  
Science of TNF blockade in vivo

10:55-11:05  Andrew Cope  
IκB-e modulates IL-2 expression in T cells

11:05-11:15  David A. Goukassian  
TNFR2 is required in post-MI recovery in adult heart

11:15-11:25  Mathur S. Kannan  
TNF-regulation of CD38 expression in human airway smooth muscle

11:25-11:35  Susie Rebelo  
Consequences of TRAPS mutations elucidated by transcriptome analysis

11:35-11:45  Katerina Vlantis  
The role of TNF in spontaneous colitis development in mice lacking NEMO

11:45-11:55  Dewan S. A. Majid  
Effects of TNF-α on renal hemodynamics and excretory function in mice

11:55-12:05  Thomas Kaufmann  
Mechanism of in vivo LPS - GalN hepatitis

12:05-12:20  Claude Libert  
Strategies to inhibit the toxicity of systemic TNF treatment

9:50-12:30  SESSION 11: Rational Design of New Means for Therapeutic Modulation of Function of the TNF Family  
Chairpersons: Klaus Pfizenmaier & David Szymkowski

9:50-10:00  Anja Krippner-Heidenreich  
The stalk region of the TNFRs determines soluble TNF responsiveness

10:00-10:10  Antony Symons  
The effect of therapeutic anti-TNF agents on reverse signaling via membrane TNF

10:10-10:20  Marcos E. Milla  
Determinants for prodomain inhibition of the TACE zymogen state

10:20-10:35  Yasuo Tsutsumi  
Creation of the TNF receptor-1-selective mutant of a tumor necrosis factor-alpha antagonist

10:35-10:55  Coffee break
10:55-11:05  Lih-Ling Lin  
Pharmacological inhibition of Tpl2 kinase blocks TNFalpha production

11:05-11:15  Stephen Hale  
Discovery of a series of novel small molecule macrocyclic TNF antagonists

11:15-11:25  Pascal Schneider  
Activity of EDA is conditioned by its collagen and heparan sulfate proteoglycan-binding domains

11:25-11:35  Jane L. Grogan  
Mechanism of action of anti-LTα in autoimmune disease: depletion of Th1 and Th17 cells

11:35-11:45  Jan Paul Medema  
The development and characterization of APRIL antagonistic agents

11:45-11:55  Marjaneh Razmara  
Fn14-TRAIL, a chimeric intercellular signal exchanger in EAE

11:55-12:05  Klaus Pfizenmaier  
Novel TRAIL variants for targeted cancer therapy

12:05-12:20  Wim J. Quax  
Designed receptor specific rhTRAIL variants enhance induction of apoptosis in cancer cells

12:20-12:30  Andreas Evdokiou  
Apomab, a fully human agonistic DRS monoclonal antibody in mouse models of breast cancer

12:30-13:50  Lunch / Posters

13:50-14:15  ROUND TABLE DISCUSSION  
New Approaches to Therapy

TWO PARALLEL SESSIONS FOLLOW

14:25-17:15  SESSION 12: Roles of the TNF family in Neuronal Development, Function & Pathology  
Chairpersons: Tony Wyss-Coray & Malu Tansey

14:25-14:50  Tony Wyss-Coray  
Central and systemic action of cytokines in neurodegeneration

14:50-15:15  Malu Tansey  
TNF as key neuroinflammatory mediator of neurotoxicity and neurodegeneration

15:15-15:40  David Stellwagen  
The contribution of TNFs to synaptic plasticity and nervous system function

14:25-17:45  SESSION 5: Cell Death Mechanisms Controlled by the TNF Family  
Chairpersons: Peter Vandenabeele & John Eriksson

14:25-14:40  Peter Vandenabeele  
Programmed necrosis, a controlled way of cellular explosion

14:40-14:55  Martin Krönke  
Riboflavin kinase couples TNF receptor 1 to NADPH oxidase and apoptosis

14:55-15:10  Zhenggang Liu  
ATIA, a multi-task protein protects cells against TNF-induced apoptosis

15:10-15:20  Francis Chan
RNAi Screen for Novel Regulators of TNF-Induced Programmed Necrosis

15:20-15:30  Uwe Bertsch
Compartmentalization of TNF-R1 signaling

15:30-15:40  Timothy R. Billiar
TNFR1 & DISC components translocate to the mitochondria and nucleus

15:40-15:50  Sophia Cleland
FasL secretion and self-tolerance is regulated by WAS protein

15:50-16:10  Coffee break

16:10-16:20  Adrian T. Ting
TNFR1 has an early ubiquitination-dependent, NF-κB-independent cell death checkpoint

16:20-16:30  Lester F. Lau
TNF & Fasl cytotoxicity regulated by the extracellular matrix protein CCN1

16:30-16:40  Han-Ming Shen
Non-canonical NF-κB signaling for TNF autocrine and necrosis in L929

16:40-16:50  Meredith S. Gregory
Form of FasL determines if retinal ganglion cells survive in glaucoma

16:50-17:00  Lisa M. Sedger
Fatal lymphoproliferative disease in Fasl- and TRAIL double deficient mice

17:00-17:10  Najoua Lalaoui
DcR2 protects cancer cells from TRAIL-induced apoptosis

17:10-17:20  Martin Zörnig
Analysis of mice that express a mutant Fasl lacking the intracellular domain

17:20-17:30  Philipp J. Jost
XIAP loss converts Fas-induced apoptosis signaling in hepatocytes from type II to type I

17:30-17:45  John Eriksson
Regulation of cell death by c-FLIP phosphorylation

17:45-18:10  ROUND TABLE DISCUSSION
Cell Death Mechanisms

18:25-18:40  CLOSING REMARKS