

**12th INTERNATIONAL TNF CONFERENCE
APRIL 26-29, 2009
SAN LORENZO DE EL ESCORIAL, MADRID, SPAIN**

Detailed Meeting Plan

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 RANKL-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
LT α 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- κ B 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

12:05-12:30	Mechanisms of the tumor-promoting action of TNF- α in epithelial tumors ROUND TABLE DISCUSSION <u>Cancer and Homeostasis</u>
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- κ B 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- κ B 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 Metzger Characterization of novel TNF α /NF- κ B signaling components by RNAi
16:15-16:20	Sina Bartfeld RNA-i screen identifies new factors important for NF- κ B activation & termination
16:20-16:30	Nicolas Bidere CK1 α , NF- κ B activation, and human lymphoma cell survival
16:30-16:40	Kazuyuki Yoshizaki Pathogenic role of IL-6 with TNF α or IL-1 on the induction of acute phase proteins
16:40-16:50	Emmanuel Dejardin New insights in LT β R-mediated NF- κ B activation
16:50-17:00	Alexander Hoffmann The NF- κ B signaling system as an integrator of diverse signals
17:00-17:10	Tomoko Asaoka Mathematical modeling of the TNF α 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 <u>TNF Signaling Networks and Systems Biology</u>
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- κ B, 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 MicroRNA miR-146 is a key regulator of autoimmunity and inflammation

- 18:45-18:55 Juan P. Patrón
MicroRNA-146a protects from TNF α -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
LT β R-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 LT β R during the maturation of lymph node anlagen stroma

16:10-16:20 Ewen Gallagher
Analysis of B lymphocyte TNF member signalling utilizing Mekk1 Δ KD 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
c-IAPs 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 Maini8:30-8:55 Ravinder Maini
An update on lessons learned from anti-TNF therapy of RA8:55-9:10 Jeffrey Browning
Blockade of LT-LIGHT pathway and the treatment of autoimmune disease9:10-9:25 David Szymkowski
Comparative studies of selective inhibitors of soluble TNF9:25-9:45 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 Libert9:50-10:00 Dirk Elewaut
TNF driven activation of NKT cells regulates combined gut and joint inflammation10:00-10:10 Anna Yarilina
TNF priming of type I IFN responses in monocytes and macrophages10:10-10:20 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 vivo10:55-11:05 Andrew Cope
I κ B-e modulates IL-2 expression in T cells11:05-11:15 David A. Goukassian
TNFR2 is required in post-MI recovery in adult heart11:15-11:25 Mathur S. Kannan
TNF-regulation of CD38 expression in human airway smooth muscle11:25-11:35 Susie Rebelo
Consequences of TRAPS mutations elucidated by transcriptome analysis11:35-11:45 Katerina Vlantis
The role of TNF in spontaneous colitis development in mice lacking NEMO11:45-11:55 Dewan S. A. Majid
Effects of TNF- α on renal hemodynamics and excretory function in mice11:55-12:05 Thomas Kaufmann
Mechanism of in vivo LPS - GalN hepatitis12:05-12:20 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 Szymkowski9:50-10:00 Anja Krippner-Heidenreich
The stalk region of the TNFRs determines soluble TNF responsiveness10:00-10:10 Antony Symons
The effect of therapeutic anti-TNF agents on reverse signaling via membrane TNF10:10-10:20 Marcos E. Milla
Determinants for prodomain inhibition of the TACE zymogen state10:20-10:35 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 TNF α 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-LT α 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 DR5 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-Corey & 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 TNF α to synaptic plasticity and nervous system function

15:40-16:00 Coffee break

- 16:00-16:25 Anatoly Nikolaev
Axonal self-destruction and neurodegenerative disease
- 16:25-16:35 Yoshinori Takei
TNF α changes downstream pathways of NGF signaling from Erk1/2 to Akt
- 16:35-16:45 Ulrich L. M. Eisel
TNFR2 - target for therapeutics against neurodegenerative diseases
- 16:45-16:55 Era Taoufik
Caspase-8 mediates neuron death following in vivo and in vitro excitotoxic injury
- 16:55-17:05 Rana S. Moubarak
c-FLIP is necessary for neuronal differentiation mediated by neurotrophins
- 17:05-17:15 Mary Emmanouil
IKK β suppresses neuroinflammation & protects against neurological deficits

- 17:15-17:40 **ROUND TABLE DISCUSSION**
[The TNF Family in Neuronal Development and Pathology](#)

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- κ B-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- κ B 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