

# Programme - Stepping Stone Symposium

## Cancer & Neurodegenerative Diseases

20-22 June 2012, ETH Zurich, Switzerland

**Day 1 – Wednesday, June 20**

Time	Room	Cancer Research (CR)
08:00-09:00	Main Building (HG)	Registration, Welcome Coffee
09:00-09:20	Plenary Hall Auditorium E3	<b>Welcome</b> <b>Ralph EICHLER</b> (President ETH Zurich) <b>Ken WU</b> (Chinese Ambassador to Switzerland, Berne) <b>Jürg BURRI</b> (Deputy Director State Secretariat for Education and Research, Switzerland)
09:20-09:30		<b>Introduction to the Symposium</b> <b>Wilhelm KREK</b> (ETH Zurich) <b>Adriano AGUZZI</b> (University/University Hospital of Zurich)
<b>Plenary I</b> 09:30-10:15		<b>Douglas HANAHAN</b> (EPF Lausanne) <i>Hallmarks of cancer: from concepts to new mechanistic insights</i>
10:15-10:40	HG E Nordhof	Coffee Break
<b>Parallel Session I (NDD)</b>	HG D3.2	<b>Neurodegenerative Diseases – Mechanism I</b> <b>Chair: Adriano AGUZZI</b>
10:40-11:10		<b>Adriano AGUZZI</b> (University/University Hospital Zurich) <i>Mechanisms of neurotoxicity in prion diseases</i>
11:10-11:25		<b>Tao WANG</b> (IoN, Chinese Academy of Sciences) <i>Protein SUMOylation in neurodegenerative diseases</i>
11:25-11:45		<b>Carolin SEURING</b> (ETH Zurich) <i>The mechanism of toxicity in HET-S/HET-s prion incompatibility</i>
11:45-12:15		<b>Guoxiang CHENG</b> (Shanghai Transgenic Research Center) <i>Production and characterization of PrP lacking goats</i>
<b>Parallel Session I (CR)</b>	Plenary Hall Auditorium E3	<b>Tumor Microenvironment and Metastasis</b> <b>Chair: Youyong LU</b>
10:40-11:10		<b>Haihe WANG</b> (Sun Yat-Sen University) <i>Roles of PRL-3 phosphatase in tumorigenesis and cancer metastasis</i>
11:10-11:25		<b>Yong CHEN</b> (ETH Zurich) <i>Identification of a selective inhibitor of melanoma stem cells by chemical library screening</i>
11:25-11:55		<b>Sabine WERNER</b> (ETH Zurich) <i>Role of activin in tissue repair and cancer</i>
11:55-12:15		<b>Xuebiao YAO</b> (University of Science & Technology of China, Hefei) <i>Molecular dissection of cytokine CCL18-elicited breast cancer cell metastasis</i>

## Day 1 – Wednesday, June 20

12:15-14:15	HG D Nordhof	Lunch + Poster Session
<b>Parallel Session II (NDD)</b>	HG D3.2	<b>Neurodegenerative Diseases - Mechanism II</b> <b>Chair: Hansruedi LOETSCHER</b>
14:15-14:30		<b>Li ZHANG</b> (Fudan University) <i>The role of altered microRNA expression in hypoxia-activated microglia and microglia-mediated neuronal injury</i>
14:30-14:45		<b>Bin WEI</b> (IBCB, Chinese Academy of Sciences) <i>Mechanism with which GABA receptor controls the development of inflammation</i>
14:45-15:15		<b>Roland RIEK</b> (ETH Zurich) <i>Structure activity relationship of protein aggregates in health and disease</i>
15:15-15:45		<b>Jiawei ZHOU</b> (IoN, Chinese Academy of Sciences) <i>Suppression of neuroinflammation by dopamine D2</i>
<b>Parallel Session II (CR)</b>	Plenary Hall Auditorium E3	<b>Molecular Pathology and Biomarkers</b> <b>Chair: Bruno OSTERWALDER</b>
14:15-14:45		<b>Holger MOCH</b> (University/University Hospital of Zurich) <i>Biobanking as prerequisite for personalized medicine</i>
14:45-15:15		<b>Youyong LU</b> (Peking University) <i>A Novel Concept of SNVs Derived from Exomic Sequencing to Identify Frequent Mutations in Gastric Cancer</i>
15:15-15:30		<b>Chong XIE</b> (Fudan University) <i>Multiplex quantification of autoantibody with PSA tests: a novel assay platform to improve conventional cancer biomarkers</i>
15:30-15:45		<b>Ralph SCHIESS</b> (Proteomedix Inc., Schlieren) <i>Cancer genetics guided prostate cancer biomarkers</i>
<b>Plenary II</b> 15:45-16.30	Plenary Hall Auditorium E3	<b>Martin SCHWAB</b> (University of Zurich/ETH Zurich) <i>Repairing the hardware of the central nervous system after injury</i>
16:30	HG E Nordhof	Apéro and Networking
18:30		<b>Close-Door Dinner for Invited Speakers</b> <i>Restaurant "zum Grünen Glas" **</i>

\*\*Restaurant zum Grünen Glas, Untere Zäune 15, 8001 Zürich, 044 251 65 04; assembly at 18:10h in the main building next to the fountain.

	Plenary Session
	Cancer Research Session
	Neuro Degenerative Disease Session

## Day 2 – Thursday, June 21

<b>Plenary III</b>	<i>Plenary Hall Auditorium E3</i>	<b>Nenad BAN</b> (ETH Zurich) <i>Atomic structures of the eukaryotic ribosome and insights into the regulation of protein synthesis</i>
08:30-09:15		
<b>Joint Session</b>		<b>Challenges of Basic and Translational Research in China</b> <b>Chair: Maio CHEN</b>
09:15-09:45		<b>Guoqi CHEN</b> (Shanghai Jiao Tong University, School of Medicine) <i>Cancer research at Jiao Tong University</i>
09:45-10:15		<b>Muming POO</b> (Chinese Academy of Sciences, Shanghai) <i>Opportunities for neuroscience research in China</i>
10:15-10:40	<i>HG D Nordhof</i>	<i>Coffee Break</i>
<b>Parallel Session III (NDD)</b>	<i>HG D3.2</i>	<b>Alzheimer</b> <b>Chair: Hilal LASHUEL</b>
10:40-11:10		<b>Weidong LE</b> (IoN, Shanghai Jiao Tong University) <i>Hypoxia and Alzheimer's disease</i>
11:10-11:40		<b>Roger NITSCH</b> (University of Zurich) <i>Immunotherapy of neurodegenerative diseases</i>
11:40-12:10		<b>Hansruedi LÖETSCHER</b> (Roche, Basel) <i>Immunotherapy in Alzheimer's disease: from preclinical models to clinical reality</i>
12:10-12:40		<b>Lawrence RAJENDRAN</b> (University of Zurich) <i>Role of AKT proteins in Alzheimer's disease: linking cancer and neurodegeneration</i>
<b>Parallel Session III (CR)</b>	<i>Plenary Hall Auditorium E3</i>	<b>Cancer Cell Signaling Mechanisms</b> <b>Chair: Douglas HANAHAN</b>
10:40-11:10		<b>Wilhelm KREK</b> (ETH Zurich) <i>Feedback regulation of cancer signaling pathways: biologic and therapeutic implications</i>
11:10-11:25		<b>Jiangmei LI</b> (Institute of Biophysics, CAS, Beijing) <i>PI4KII is a novel regulator of tumor growth by its action on angiogenesis and HIF1 regulation</i>
11:25-11:40		<b>Bogdan MATEESCU</b> (ETH Zurich) <i>miR-141 and miR-200a act on ovarian tumorigenesis by controlling oxidative stress signaling pathways</i>
11:40-12:10		<b>Anne MÜELLER</b> (University of Zurich) <i>Systemic microRNA-34a replacement therapy for the treatment of diffuse large B-cell lymphoma</i>
12:10-12:40		<b>Dong XIE</b> (CAS, Shanghai) <i>EphB3 mediates kinase-dependent suppression of lung cancer metastasis via a PP2A/RACK1/AKT signaling complex</i>
12:40-14:40	<i>HG D Nordhof</i>	<i>Poster + Lunch</i>
14:40		<b>Visiting Programme:</b> <i>University of Zurich, Irchel campus, Science City, ETH Zurich ***</i>
18:00		<i>Conference Banquet: Restaurant „Die Waid“</i>

\*\*\*Assembly for visiting programme at 14:40h in front of the Plenary Hall; Dinner at the Restaurant "Die Waid", Waidbadstrasse 45, 8037 Zurich, Tel. 044 422 08 08

### Day 3 – Friday, June 22

<b>Plenary IV</b> 08:30-09:15	<i>Plenary Hall Auditorium E3</i>	<b>Muming POO</b> (Chinese Academy of Sciences, Shanghai) <i>Regulation of neural plasticity by neurotrophins</i>
<b>Parallel Session IV.I (NDD)</b>	<i>HG D3.2</i>	<b>Chair: Christian LUESCHER</b>
09:15-09:45		<b>Andreas PAPASSOTIROPOULOS</b> (University of Basel) <i>Human genetics- and imaging-driven identification of memory modulating drugs</i>
09:45-10:00		<b>Annika ARMULIK</b> (University/University Hospital Zurich) <i>Pericytes-gatekeeps at the neurovascular unit</i>
10:00-10:15		<b>Thomas WÄLCHLI</b> (University of Zurich/ETH Zurich) <i>Nogo-A is a negative regulator of CNS angiogenesis</i>
<b>Parallel Session IV.I (CR)</b>	<i>Plenary Hall Auditorium E3</i>	<b>Translational Research and Drug Discovery</b> <b>Chair: Holger MOCH</b>
09:15-09:45		<b>Francesco HOFMANN</b> (Novartis, Basel) <i>New avenues in targeted anti-cancer therapy</i>
09:45-10:15		<b>Oliver HANTSCHHEL</b> (EPF Lausanne) <i>Signaling mechanisms of Abl oncoproteins in human leukemia</i>
10:15-10:45	<i>HG E Nordhof</i>	<i>Coffee Break</i>
<b>Parallel Session IV:II (NDD)</b>	<i>HG D3.2</i>	<b>Chair: Muming POO</b>
10:45-11:15		<b>Hilal LASHUEL</b> (EPF Lausanne) <i>Structure basis of amyloid toxicity in Alzheimer's and Parkinson's disease</i>
11:15-11:30		<b>Anne SCHUETZ</b> (ETH Zurich) <i>Amyloid-ligand interactions studied at atomic resolution</i>
11:30-12:00		<b>Yan ZHANG</b> (Beijing University) <i>GABA down regulates uptake of amyloid <math>\beta</math> by hippocampus neurons, which reduces toxicity of intracellular A<math>\beta</math> and improves cognitive impairment</i>
12:00-12:15		<b>Johannes SARNTHEIN</b> (University Hospital Zurich) <i>DBS in Parkinson's disease: localization of stimulation sites based on a mean 3-dimensional atlas of the basal ganglia</i>
12:15-12:45		<b>Christian LÜSCHER</b> (University of Geneva) <i>Drug-evoked synaptic plasticity: a permissive switch to alter behavior</i>
<b>Parallel Session IV.II (CR)</b>	<i>Plenary Hall Auditorium E3</i>	<b>Translational Research and Drug Discovery</b> <b>Chair: Holger MOCH</b>
10:45-11:15		<b>Nancy HYNES</b> (Friedrich Miescher Institute, Basel) <i>Targeting receptor tyrosine kinases for breast cancer therapy</i>
11:15-11:45		<b>Andrea ALIMONTI</b> (Institute of Oncology Research, Bellinzona) <i>Manipulation of cellular senescence pathways for cancer therapy</i>

### Day 3 – Friday, June 22

11:45-12:15	Plenary Hall Auditorium E3	<b>Bruno OSTERWALDER</b> (Merck-Serono, Geneva) <i>How can we more efficiently translate our increasing biological understanding of cancer into clinically relevant novel treatments?</i>
12:15-12:45		<b>YongZhang LUO</b> (Tsinghua University, Beijing) <i>Targeting vasculatures in tumor microenvironment and pre-metastasis niche</i>
12:45-13:10	Plenary Hall Auditorium E3	<b>Concluding Remarks</b> <b>Wilhelm KREK</b> (ETH Zurich) <b>Adriano AGUZZI</b> (University/University Hospital of Zurich)
		<b>Thank You and Farewell</b> <b>Andreas FISCHER</b> (Rector, University of Zurich)
13:10	HG E Nordhof	<i>Sandwich Lunch and Departure</i>
13:30-14:50	HG E42 Pallmann-Room	<b>Close-Door Discussion:</b> <i>Future Sino-Swiss cooperation in drug discovery</i>