

Preliminary Program

Sunday - October 9, 2016

- 15:00 Registration desk opens
**Welcome to the 10th International Congress of the NDP
Kinase/Nm23/awd Family**
Chair: Maja Herak Bosnar
- 17:00 M. Herak Bosnar, Croatia
Welcome note by the local organizer
- 17:30 Plenary lecture
Igor Weber, Croatia
Polarity of the actin cytoskeleton in amoeboid cell migration
- 18:30 Plenary lecture
Mathieu Boissan, France
NDPK/NM23 superfamily: state of the art
- 20:00 **Cocktail party**

Monday - October 10, 2016

Session I: Evolution, developmental biology and model systems

Chair: Tien Hsu

- 9:00 Matija Harcet, Croatia
Group I Nme proteins in transition to multicellularity
- 9:30 Tien Hsu, Taiwan
Extracellular NME proteins—a long and still controversial story
- 10:00 Coffee break
- 10:30 Krisztina Takacs-Vellai, Hungary
*The C. elegans group I NDPK homologue NDK-1 functions together with
DYN-1/Dynamain in apoptotic engulfment and clearance*
- 11:00 Short talk
Zsolt Farkas, Hungary
*The dosage dependent effect of NDK-1/NM23-H1/H2 exerted on cell
migration in C. elegans*
- 11:15 Poster session
- 12:00 Lunch

Session II: Cell energy and metabolism

Chair: Yuxi Feng and Uwe Schlattner

- 14:00 Uwe Schlattner, France
*NM23-H4 has dual function and operates as a nanoswitch: cardiolipin-
linked mitophagy signaling and GTP-fueling of OPA1*
- 14:30 Marie-Lise Lacombe, France
*Implication of the Mitochondrial Nucleoside Diphosphate Kinase in
Human Cervical Carcinoma Cell Invasion*

- 15:00 Richmond Muimo, United Kingdom
Nucleoside Diphosphate Kinase B and Regulation of the Cystic Fibrosis Transmembrane Conductance Regulator Function by cAMP-Dependent Protein Kinase A
- 15:30 Coffee break
- 16:00 Yuxi Feng, Germany
The role of nucleoside diphosphate kinase B in retinal vasoregression
- 16:30 Zee-Fen Chang, Taiwan
NME3 links mitochondria to DNA repair in nuclear genome
- 17:00 Short talk:
Anupriya Chatterjee, Germany
The role of Tie2 in NDPKB deficiency-mediated Ang2 upregulation

Tuesday - October 11, 2016

Session III: Tumor cell biology Part I

Chair: Farhat L. Khanim and Massimo Zollo

- 09:00 Christine L. Chang, Taiwan
A regulatory interplay of NDPK-A and FBP1 in c-myc transcription and neuronal differentiation of human neuroblastoma cells
- 09:30 Massimo Zollo, Italy
Metastatic recurrence of Group 3 medulloblastoma is driven by PRUNE-1 through targeting NM23-H1–TGF- β –OTX2–SNAIL signalling via PTEN inhibition
- 10:00 Short talk:
V. Ferucci, Italy
Targeting Nm23-H1/Prune-1 interaction complex using a Competitive-Permeable Peptide (CPP) as therapeutic approach
- 10:15 Short talk:
Esther Durán, Spain
Relationship immunohistochemistry between Nm23 and several proteins of Hedgehog route: Shh, Gli and SMO
- 10:30 Coffee break
- 11:00 Farhat L. Khanim, UK
Nm23-H1 and Diffuse Large B-cell Lymphoma; implications for cross talk between the innate and adaptive immune systems in health and disease
- 11:30 Chris M. Bunce, UK
Intracellular accumulation of exogenous Nm23-H1 by myeloid leukaemia cell lines
- 12:00 Ozlem Yilmaz, USA
*Nucleoside Diphosphate Kinase Homologue of *P. gingivalis* is Secreted from Gingival Epithelial Cells In the Absence of a Leader Sequence and Is Mediated by a Pannexin-1 Interactome*
- 12:30 Lunch

Session III: Tumor cell biology Part II

Chair: Chris M. Bunce

- 14:30 Erle Robertson, USA
Oncogenic Epstein-Barr Virus recruits Nm23-H1 to regulate chromatin modifiers important for cell proliferation and transformation
- 15:00 Shantanu Chowdhury, India
Abstract Non-metastatic factor NME2 transcriptionally represses telomerase by inducing repressive chromatin marks
- 15:30 Short talk:
Shalu Sharma, India
Mechanisms of NME2 mediated suppression of the human reverse transcriptase Telomerase
- 15:45 Short talk:
Mia Antolčić, Croatia
Telomere Binding Protein TRF1 modulates the kinase activities of Nme1/2
- 16:00 Afternoon break
- 17:00 **Old city of Dubrovnik guided tour**

Wednesday - October 12, 2016

Session III: Biochemistry

Chair: Thomas Wieland and Edward Y. Skolnik

- 09:00 T. Wieland, Germany
NDPK C governs complex formation of NDPKs with G proteins and thereby regulates cAMP formation in cardiac myocytes
- 09:30 Issam Abu-Taha, Germany
Nucleoside Diphosphate Kinase-C and -B regulate cAMP Formation in Atrial Fibrillation and Human Heart Failure
- 10:00 Richmond Muimo, UK
New Chemical Tools for the Study of Phosphohistidine
- 10:30 Coffee break
- 11:00 Stephen R. Fuhs, USA
Development of Anti-Phosphohistidine Antibodies: New Tools to Study Histidine Phosphorylation and NDPK Mammalian Histidine Kinase Activity
- 11:30 Edward Y. Skolnik, USA
Histidine phosphorylation relieves copper inhibition in the mammalian potassium channel KCa3.1
- 12:00 Stanley M. Stevens, USA
The role of phosphohistidine signaling in ethanol-induced hepatic steatosis
- 12:30 Short talk:
Saswati Panda, USA
Identification of PGAM5 as a Mammalian Protein Histidine Phosphatase that Plays a Central Role to Negatively Regulate CD4⁺ T Cells

12:45	Lunch
14:30	Round table
16:00	Free time
19:00	Gala dinner

Thursday - October 13, 2016

Departure