



BATSHEVA WORKSHOP ON SPATIAL CHALLENGES IN NEURONAL CELL BIOLOGY
Lopatie Conference Center, Weizmann Institute of Science

SUNDAY, 28 APRIL, 2013

07:00 Bus transfer from Dead Sea

10:00 – 10:30 Arrival, Registration, Coffee

10:30 – 11:20 Opening Plenary – *Chair – Eran Perlson, Tel-Aviv University*

GENETIC DISSECTION OF NEUROTROPHIN SIGNALING
 THROUGH THE P75 NEUROTROPHIN RECEPTOR
Carlos Ibanez, Karolinska Institute, Sweden

11:20 – 13:00 Session I – From Transport to Migration
Chair – Eran Perlson, Tel-Aviv University

HARNESSING AXONAL RETROGRADE TRANSPORT IN
 HUMAN THERAPY
Giampietro Schiavo, Cancer Research UK

DRIVING LOGS DOWN THE AXON: DRAG OF THE CYTOSOL
 AS A TRANSPORT MACHANISM IN NERVE CELLS
Uri Nevo, Tel Aviv University, Israel

MOLECULAR MECHANISMS INVOLVED IN REGULATION OF
 NEURONAL MIGRATION
Orly Reiner, Weizmann Institute of Science, Israel

13:00 – 14:00 *Lunch*

14:00 – 16:00 Session II – Synapses
Chair – Izhak Michaellevski, Tel-Aviv University

TRANS-SYNAPTIC REGULATION OF ANTEROGRADE AND
 RETROGRADE SIGNALING BY EXOSOME TRANSMISSION
Vivian Budnik, University of Massachusetts Medical School, USA

VISUALIZING SINGLE CIRCUITS AND SYNAPSES IN LIVE
 MODEL ANIMALS FOR BRAIN DISORDERS
Lior Appelbaum, Bar-Ilan University, Israel

DYNAMIC SPATIAL AND FUNCTIONAL ORGANIZATION OF THE
 SYNAPTIC VESICLE CLUSTER WITHIN CENTRAL NERVOUS-
 SYSTEM PRESYNAPTIC TERMINALS
Daniel Gitler, Ben Gurion University, Israel

EXCHANGE AND TURNOVER OF SYNAPTIC PROTEINS:
 DYNAMICS FAST AND SLOW
Noam Ziv, Technion – Israel Institute of Technology

16:00 *Coffee Break*

For further information and registration - reut.hershenhoren@weizmann.ac.il



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16:30 – 18:30

Session III – Disease Models and Mechanisms
Chair – Eran Hornstein, Weizmann Institute of Science

IS HUNTINGTON DISEASE A DEVELOPMENTAL DISORDER?

Sandrine Humbert, Institut Curie, France

ASTROGLIOSIS INDUCED BY BRAIN INJURY IS REGULATED BY
SEMA4B PHOSPHORYLATION

Oded Behar, Hebrew University, Israel

AGING-ASSOCIATED DECLINE IN FOLDING ACTIVITY ENABLES
THE ONSET OF FAMILIAL PRION DISORDER AND ALZHEIMER'S
DISEASE LATE IN LIFE

Ehud Cohen, Hebrew University, Israel

INITIATION OF ALZHEIMER'S DISEASE: FROM AMYLOID-BETA
PRODUCTION TO SYNAPTIC DYNAMICS

Inna Slutsky, Tel Aviv University, Israel

19:00

Reception and Light Dinner

MONDAY, 29 APRIL, 2013

08:00 – 08:30

Coffee and Light Breakfast

08:30 – 10:30

Session IV – From Guidance to Remodeling
Chair – Avi Hu Klar, Hebrew University of Jerusalem

AXON GUIDANCE AND THE LOCAL TRANSLATOME

Christine Holt, University of Cambridge, UK

MANIPULATING NEURONAL MORPHOLOGY – DOES IT
AFFECT FUNCTION?

Orit Shefi, Bar-Ilan University, Israel

HOW JNK FACILITATES NEURONAL REMODELING

Oren Schuldiner, Weizmann Institute of Science, Israel

MECHANISMS OF AXONAL PRUNING IN THE PERIPHERAL
NERVOUS SYSTEM

Avraham Yaron, Weizmann Institute of Science, Israel



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MONDAY, 29 APRIL, 2013 (continued)

10:30 *Coffee Break*

11:00 – 12:30 Session V – From Signaling to Axonal Physiology
Chair – Shelly Tzlil, Technion

SPATIAL-TEMPORAL CONTROL OF PTEN SIGNALING IN NEURONS

Britta Eickholt, Charité – Universitätsmedizin Berlin, Germany

DRIVING AXONAL REGENERATION THROUGH REGULATION OF LOCAL MRNA TRANSLATION

Jeffery L. Twiss, Drexel University, USA

SIZE-SENSING AND STRUCTURAL MEMORY BY REGENERATING NEURONS AFTER AXOTOMY

Micha Spira, Hebrew University, Israel

12:30 – 13:20 Plenary Lecture - *Chair – Shelly Tzlil, Technion*

FAST AXONAL TRANSPORT, ENERGY SUPPLY AND HUNTINGTIN

Frédéric Saudou, Institut Curie, France

13:20 – 14:30 *Lunch*

14:30 – 16:00 Scientific Publishing from an Editor's Viewpoint
Chair – Mike Fainzilber, Weizmann Institute of Science

THE EMBO JOURNAL – A BEHIND THE SCENES LOOK AT SCIENTIFIC PUBLISHING

Karin Dumstre, The EMBO Journal

NAVIGATING THE PEER REVIEW PROCESS: A VIEW FROM CELL PRESS

Katja Brose, Neuron