January 4, 2016

9.15 Opening remarks Prof. Steven J.D.Karlish

9.20 Tribute to Haim by Prof. Daniel Zajfman, President of the Weizmann Institute

Session 1: Hormonal and Genetic Control of Sodium Transport in Epithelia
Chairs: Michael Eisenbach (WI), Aaron Hanukoglu (TAU)

9.30 Dr. Carol Asher (WI)
Haim Garty’s Legacy: A Summary of Thirty Years Investigating the Regulation of Epithelial Ion Transport

10.00 Prof. Larry Palmer (New York, NY)
Movements of Na channels in kidney cells: Wailing Wall or Trail of Tears?

10.30 Prof. Tom Kleyman (Philadelphia, Pa)
Regulation of epithelial sodium channels by external cues

11.00 Coffee break

11.30 Prof. Nicolette Farman (Paris, France)
Mineralocorticoid effects beyond renal sodium transport: retinal and skin homeostasis

12.00 Prof. Zvi Farfel (TAU)
Mineralocorticoid effects beyond renal sodium transport: retinal and skin homeostasis

12.30 Prof. Giuseppe Bianchi (Milano, Italy)
Mineralocorticoid effects beyond renal sodium transport: retinal and skin homeostasis

13.00 Lunch

Session 2: Regulation of Active Na, K Transport
Chairs: Kathleen Sweeney (Boston, MGH), Steve Karlish (WI)

14.00 Prof. Kathleen Sweeney (Boston, Mass)
Unanticipated roles of FX1D proteins

14.30 Dr. Ira Lubarski (WI)
FX1D mediated mechanism of lung metastasis in 4T1 breast cancer model

15.00 Prof. Michael Shattock (St. Thomas, London)
Na/K ATPase and phospholemman in the heart

15.30 Coffee Break

16.00 Prof. Bente Vilsen (Arhus, Denmark)
Rescue of sodium affinity by secondary mutation

16.30 Prof. Hans Juergen Apell (Konstanz, Germany)
Molecular mechanism of sodium transport by the Na,K-ATPase

17.00 Prof. David Lichtstein (HU)
Involvement of Na+, K+-ATPase and endogenous cardiac steroids in bipolar disorder

19.30 Meeting Dinner (by invitation)
Address by Dr. Nira Garty, Prof. Michal Neeman and Prof. Steven J.D.Karlish

January 5, 2016

Na Transport Systems – a Functional and Structural Perspective
Chairs: Eitan Reuveny (WI), Bernard Attali (TAU)

9.30 Prof. Baruch Kanner (HU)
Molecular Mechanism of Sodium-Coupled Neurotransmitter Transport

10.00 Prof. Etana Padan (HU)
Structural and Functional Dynamics of NhaA Na+/H+ antipporter

10.30 Prof. Israel Sekler (BGU)
Mitochondrial Na+ and Ca2+ in Signaling Metabolism and Secretion and their breakdown in neurological disorders

11.00 Coffee break

11.30 Prof. Daniel Khananshvili (TAU)
Structure-dynamic basis of ion transport and regulation in the sodium-calcium exchanger (NCX) proteins

12.00 Prof. Steven Karlish (WI)
Development of isoform-selective digoxin derivatives as agents to reduce intra-ocular pressure

12.30 Lunch

ORGANIZING COMMITTEE
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REGISTRATION