

The 1<sup>st</sup> international meeting on:  
**NERVE-DRIVEN IMMUNITY:  
NEUROTRANSMITTERS AND  
NEUROPEPTIDES IN THE  
IMMUNE SYSTEM**

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**RECEPTORS, POTENT EFFECTS, ENDOGENOUS PRODUCTION  
AND INVOLVEMENT IN DISEASE**

**VIENNA, MARCH 9-10, 2012**

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**ORGANIZER**

**Mia Levite, Israel**

**CO-ORGANIZER**

**Amos Korczyn, Israel**

**SCIENTIFIC COMMITTEE**

**Mia Levite, Israel**

**Amos Korczyn, Israel**

**Marco Cosentino, Italy**

**Claudia Panuschka, Austria**

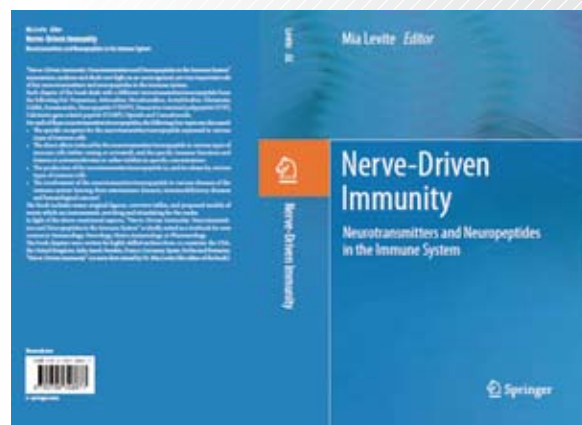
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The meeting is based on  
Springer's new book entitled:

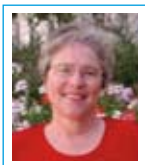
**NERVE-DRIVEN IMMUNITY:  
NEUROTRANSMITTERS AND  
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IMMUNE SYSTEM**

The book's webpage:

[http://www.springer.com/biomed/  
immunology/book/978-3-7091-0887-1](http://www.springer.com/biomed/immunology/book/978-3-7091-0887-1)



## THE SPONSORS OF THE MEETING



**Prof. Marta Weinstock Rosin, Israel**  
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האוניברסיטה העברית בירושלים   
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**SCIENTIFIC PROGRAM**  
**FRIDAY, MARCH 9, 2012**

**HALL E**

**SESSION 1**

Chairpersons: **Sabita Roy**, USA; **Cris Constantinescu**, UK

- 09:00-09:45 Adrenergic and Noradrenergic modulation of immune cells: an update  
**Marco Cosentino and Franca Marino**, Italy
- 09:45-10:30 Acetylcholine receptors and effects in the immune system  
**Talma Brenner and Eran Nizri**, Israel

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10:30-11:00 *Coffee break*

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**SESSION 2**

Chairpersons: **Mario Delgado**, Spain; **Marco Cosentino**, Italy

- 11:00-11:45 Dopamine in the immune system: Dopamine receptors in immune cells, potent effects, endogenous production and involvement in diseases  
**Mia Levite**, Israel
- 11:45-12:30 Role of the mu Opioid receptor in Opioid modulation of immune function  
**Sabita Roy**, USA

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13:00-14:00 *Lunch*

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**SESSION 3**

Chairpersons: **Razvan Arsenescu**, USA; **Mia Levite**, Israel

- 14:00-14:45 GABA is an effective immunomodulatory molecule  
**Bryndis Birnir**, Sweden
- 14:45-15:30 Dendritic cells secrete GABA, possess GABA receptors, and are activated by GABA resulting in increased migration - A mechanism hijacked by intracellular pathogens?  
**Antonio Barragan**, Sweden

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16:00-16:30 *Coffee break*

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**SESSION 4**

Chairpersons: **Talma Brenner**, Israel; **Mario Delgado**, Spain

- 16:30-17:15 The receptors and effects of the neuropeptides cortistatin, urocortin and adrenomedullin in the immune system, and their therapeutic applications in inflammatory, autoimmune, and infectious diseases  
**Elena González-Rey**, Spain

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## SCIENTIFIC PROGRAM

### SATURDAY, MARCH 10, 2012

#### HALL E

##### SESSION 5

Chairpersons: **Talma Brenner**, Israel; **Mirjana Dimitrijevic**, Serbia

- 09:00-09:45 The Endocannabinoid system: a revolving plate in neuro - immune interaction in health and disease  
**Cris Constantinescu**, UK
- 09:45-10:30 Vasoactive Intestinal Peptide (VIP): a neuropeptide with pleiotropic immune functions  
**Mario Delgado**, Spain

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10:30-11:00 *Coffee break*

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##### SESSION 6

Chairpersons: **Bryndis Birnir**, Sweden; **Elena González-Rey**, Spain

- 11:00-11:45 The intriguing mission of Neuropeptide Y in the immune system  
**Mirjana Dimitrijevic and Stanislava Stanojevic**, Serbia
- 11:45-12:30 Substance P receptors and effects in the immune system  
**Razvan Arsenescu**, USA

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13:00-14:00 *Lunch*

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##### SESSION 7

Chairpersons: **Stanislava Stanojevic**, Serbia; **Sabita Roy**, USA

- 14:00-14:45 Rivastigmine, a cholinesterase inhibitor, reduces intestinal inflammation by indirect activation of  $\alpha 7$  cholinergic receptors  
**Helena Shifrin and Marta Weinstock**, Israel
- 14:45-15:30 Somatostatin, Cortistatin and Somatostatin Receptors : Novel Emerging Players in Immune Cell Function in Health and Disease  
**Virgil Dalm**, The Netherlands

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16:00-16:30 *Coffee break*

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##### SESSION 8

Chairpersons: **Talma Brenner**, Israel; **Marco Cosentino**, Italy

- 16:30-17:20 GLUTAMATE IMMUNITY AND AUTOIMMUNITY  
Topic 1: Glutamate receptors, potent effects and production in the immune system;  
Topic 2: Glutamate receptor antibodies in 'Autoimmune Epilepsy' and encephalitis: presence in patients, activation of glutamate receptors, killing neurons and association with neuropsychiatric impairments in mice and human  
**Mia Levite**, Israel

##### SESSION 9

Chairperson: **Claudia Panuschka**, Austria

- 17:20-18:00 Concluding remarks, open discussion by the speakers and chairpersons, future plans
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