



# 4<sup>th</sup> MEETING OF NOBEL LAUREATES AND TALENTED STUDENTS IN SZEGED

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## 30 hours continuous laboratory practice for secondary school students

Friday and Saturday, 12–13 June, 2015

### FINAL PROGRAMME



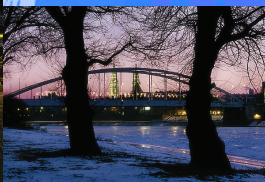
**Organized by the:**

Foundation for the Future of Biomedical Science in Szeged  
Biological Research Centre of the Hungarian Academy of Sciences the University of Szeged

**Venue:**

HOTEL NOVOTEL SZEGED\*\*\*\*

1 Maros utca, H6721 Szeged, Hungary



## MAIN SPONSOR:



## OTHER SPONSORS:



## KEYNOTE LECTURES BY:

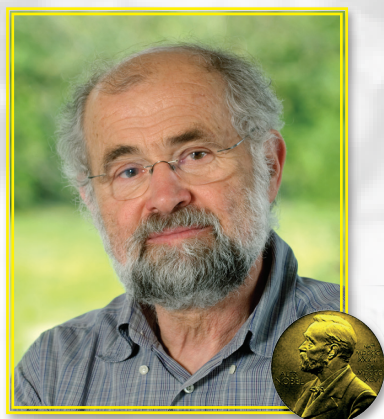
**the Nobel Prize-winning biochemist**

**ERWIN NEHER**

*The Nobel Prize in Physiology or Medicine 1991*

**and the X-LAB founder and director**

**EVA-MARIA NEHER**



**Erwin Neher**



**Eva-Maria Neher**

## VENUE PLACES

### Venue for the **PRESENTATIONS**

#### **HOTEL NOVOTEL SZEGED\*\*\*\***

1 Maros utca, H6721, Szeged, Hungary

### Venue for the **LABORATORY EXPERIMENTS IN BIOMEDICAL SCIENCES**

#### **MIKLÓS RADNÓTI SECONDARY SCHOOL – Laboratory for Life Sciences**

6-8 Tisza Lajos krt, H6720, Szeged, Hungary

### Venue for the **GALA**

#### **SZEGED NATIONAL THEATRE**

1 Vaszy Viktor ter H6720, Szeged, Hungary

## PRESENTATIONS

### FRIDAY

## ARRIVING TO THE MEETING VENUE

**8:00–12:00**

Sandwiches and refreshments will be served continuously

**12:00**



### **OPENING OF THE MEETING AND PRESS CONFERENCE**

**13:00**

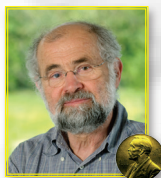


### **KEYNOTE LECTURE I.**

Chairs: **Pál Ormos, András Varró**

Introduction by: **Ferenc Bari**

Presentation by **Erwin NEHER**





# DETAILED PROGRAMME

14:00



## PRESENTATION BY THE 2<sup>nd</sup> YEAR SZENT-GYÖRGYI STUDENTS

Chairs: **Pál Ormos, András Varró**

14:00–14:05

**László Vécsei** (*Szent-Györgyi Mentor*)

Introduction of the Neurology Research Laboratory

14:05–14:15

**Márton Szentírmái** (*2<sup>nd</sup> year Szent-Györgyi Student*)

Central nervous system-specific alterations in the tryptophan metabolism in the 3-nitropropionic acid model of Huntington's disease

14:15–14:20

**Lajos Haracska** (*Szent-Györgyi Mentor*)

Introduction of the Mutagenesis and Carcinogenesis Laboratory

14:20–14:30

**Tímea Óvári** (*2<sup>nd</sup> year Szent-Györgyi Student*)

Analysis of the regulation of DNA damage tolerance

14:30–14:35

**Imre Boros** (*Szent-Györgyi Mentor*)

Introduction of the Epigenetics and Chromatin Research Laboratory

14:35–14:45

**Petra Éva Szili** (*2<sup>nd</sup> year Szent-Györgyi Student*)

The background of collateral sensitivity in human uterine sarcoma cell lines



## COFFEE BREAK

15:15



## PRESENTATION BY THE 1<sup>st</sup> YEAR SZENT-GYÖRGYI STUDENTS

Chairs: **Márta Széll, Tamás Martinek**

15:15–15:20

**István Andó** (*Szent-Györgyi Mentor*)

Introduction of the Laboratory of Immunology

15:20–15:30

**Dávid Jász Kurszán** (*1<sup>st</sup> year Szent-Györgyi Student*)

Drosophila as a model organism to study granuloma formation; definition of molecular markers to start with

15:30–15:35

**Zoltán Rakonczay** (*Szent-Györgyi Mentor*)

Introduction of the Pancreatic Research Group

15:35–15:45

**Andrea Molnár** (*1<sup>st</sup> year Szent-Györgyi Student*)

The effect of opioids on experimental acute pancreatitis.

15:45–15:50

**Lajos Mátés** (*Szent-Györgyi Mentor*)

Introduction of the Laboratory of Cancer Genome Research

15:50–16:00

**Réka Karkas** (*1<sup>st</sup> year Szent-Györgyi Student*)

In vivo gene therapy in the mouse model of tyrosinaemia type I.

16:00–16:05

**Eszter Farkas** (*Szent-Györgyi Mentor*)

Introduction of the Cerebrovascular Research Laboratory

16:05–16:15

**Réka Tóth** (*1<sup>st</sup> year Szent-Györgyi Student*)

Optical imaging of tissue pH and blood flow changes in the ischemic rat brain.

# DETAILED PROGRAMME

## 16:30–17:15 INTRODUCTION OF THE FUTURE PLANS OF THE SZEGED SCIENTISTS ACADEMY

Chairs: **Ferenc Bari, Béla Gál**

**Péter Hegyi** (*Secretary of the Foundation*)

**Sándor Bán** (*Head of the Research lab at RMG*)

## FREE LATE AFTERNOON PROGRAMME (optional guided tour in Szeged)



20:00



**BUFFET DINNER**

## SATURDAY

9:00



### KEYNOTE LECTURE II.

Chairs: **László Vígh, László Dux**

Introduction by: **Sándor Bán**

Presentation by **Eva-Maria NEHER**



10:00



### PRESENTATION BY THE 1<sup>st</sup> YEAR SZENT-GYÖRGYI STUDENTS

Chairs: **László Vígh, László Dux**

10:00–10:05

**Mihály Boros** (*Szent-Györgyi Mentor*)

Introduction of the Surgical Research Group

10:05–10:15

**Anna Nászai** (*1<sup>st</sup> year Szent-Györgyi Student*)

In vitro effects of methane on xanthine oxidase activity-linked elements of oxidative and nitrosative stress.

# DETAILED PROGRAMME

- 10:15–10:25** **Liliána Kiss** (*1<sup>st</sup> year Szent-Györgyi Student*)  
In vivo effects of methane inhalation on oxidative and nitrosative stress response in hypoxic rats.
- 10:25–10:30** **Mária Deli** (*Szent-Györgyi Mentor*)  
Introduction of the Biological Barriers Research Group
- 10:30–10:40** **Dóra Hantosi** (*1<sup>st</sup> year Szent-Györgyi Student*)  
Study of nanoparticles for drug delivery to the brain on culture models
- 10:40–10:45** **Lajos Kemény, Márta Széll** (*Szent-Györgyi Mentor*)  
Introduction of the Immunology Research Group
- 10:45–10:55** **Benjámín Papp** (*1<sup>st</sup> year Szent-Györgyi Student*)  
HLA-II epitope prediction for the Candida albicans proteome revealed important aspects of adaptive anticandidal immunity
- 10:55–11:00** **József Mihály** (*Szent-Györgyi Mentor*)  
Introduction of the Laboratory of Actin Cytoskeleton Regulation
- 11:00–11:10** **Mihály Újházi** (*1<sup>st</sup> year Szent-Györgyi Student*)  
Studying DAAM gene functions in Drosophila melanogaster with CRISPR system
- 11:30–12:00** General Introduction from the Faculty of Medicine  
**Márta Széll**
- 12:00–12:30** General Introduction from the BRC  
**György Pósfai**
- 12:30** Closing of the scientific presentations  
**András Varró**



**LUNCH**

## TOUR TO THE ÓPUSZTASZER NATIONAL PARK



# DETAILED PROGRAMME

## EXPERIMENTS IN BIOMEDICAL SCIENCES

### FRIDAY

8:30–11:30

12:00–14:00

14:00–17:00

17:00–20:00

20:00–23:00

23:00–2:00

Group I.

**EVERYONE IS AT THE KEYNOTE PRESENTATION**

Group II.

Group III.

Group IV.

Group V.

### SATURDAY

2:00–5:00

5:00–8:00

8:00 – 10:00

10:00–13:00

13:00–16:00

16:00–19:00

Group VI.

Group VII.

**EVERYONE IS AT THE KEYNOTE PRESENTATION**

Group VIII.

Group IX.

Group X.



### GALA EVENING

20:00–22:00

#### **National Theatre Szeged**

Intoduction of career perspetieeves for secondary school students.

Presentation of the Szent-Györgyi Talent Award

Established by the Foundation for the Future of Biomedical Sciences in Szeged

**Péter Hegyi & Zsolt Juhász:** Traditional Folkdance Evening delivered by the Szeged Folkdance Ensemble and the Duna Folk Ensemble

## SUNDAY

**Departure from the Hotel**

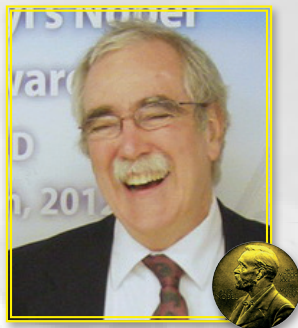
## FUTURE MEETINGS FIX THE DATES!



**Tim Hunt**

**1 September, 2015**

**Nobel Prize in  
Physiology or Medicine – 2001**



**Eric Wieschaus**

**5–7 November, 2015**

**Nobel Prize in  
Physiology or Medicine – 1995**

## FOUNDATION FOR THE FUTURE OF BIOMEDICAL SCIENCES IN SZEGED

**Chairman, Board of Governors:** András Varró

**Members of the Board:** Péter Hegyi (Secretary),

Lajos Kemény, Szilvia Krizsó

Ferenc Bari, Pál Ormos, László Vécsei, and László Vígh

**Nobel programme organizer:** Klára Szentgyörgyi

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**SZÉCHENYI** 2020



HUNGARIAN  
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**INVESTING IN YOUR FUTURE**