



4th MEETING OF NOBEL LAUREATES AND TALENTED STUDENTS IN SZEGED

+

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



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KEYNOTE LECTURES BY:

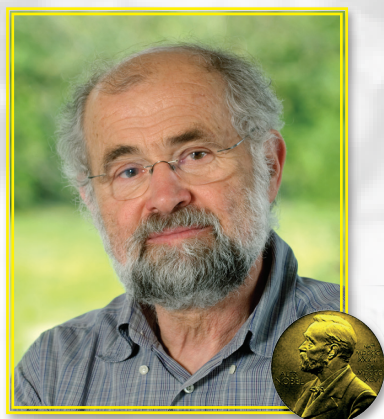
the Nobel Prize-winning biochemist

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

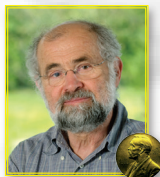


KEYNOTE LECTURE I.

Chairs: **Pál Ormos, András Varró**

Introduction by: **Ferenc Bari**

Presentation by **Erwin NEHER**



DETAILED PROGRAMME

14:00



PRESENTATION BY THE 2nd 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 (*2nd 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 (*2nd 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 (*2nd year Szent-Györgyi Student*)

The background of collateral sensitivity in human uterine sarcoma cell lines



COFFEE BREAK

15:15



PRESENTATION BY THE 1st 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 (*1st 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 (*1st 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 (*1st 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 (*1st 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 1st 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 (*1st 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** (*1st 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** (*1st 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** (*1st 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** (*1st 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

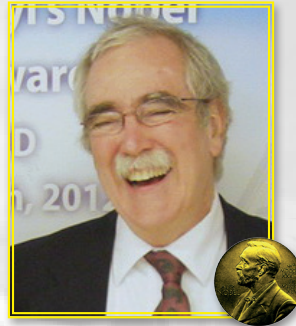
FUTURE MEETINGS FIX THE DATES!



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

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SZÉCHENYI 2020



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INVESTING IN YOUR FUTURE