



HUNGARIAN SCIENCE FESTIVAL



THE HUNGARIAN ACADEMY OF SCIENCES
KINDLY INVITES YOU TO ATTEND THE EVENT OF
THE HUNGARIAN SCIENCE FESTIVAL
WITH THE TITLE
**BÉKÉSY SYMPOSIUM: MECHANISMS OF HEARING ALONG THE FOOTSTEPS
OF GEORG VON BÉKÉSY**

Date and time of venue:

30th of November 2022. [Wednesday] 3:00 PM

Address:

HAS Main Building Conference room

9. Széchenyi István square, 1051 Budapest

PROGRAM

- 15.00–15.05: **INTRODUCTION**
György Panyi, Miklós Kellermayer and Peter Dallos
- 15.05–15.15: **THE HERITAGE OF GEORG VON BÉKÉSY**
Mariann Békésy
- 15.15–15.45: **PRESTIN CONFORMATIONAL DYNAMICS AND THE MOLECULAR BASIS OF THE COCHLEAR AMPLIFIER**
Eduardo Perozo, Ph.D. (Professor, Biochemistry & Molecular Biology, Institute for Biophysical Dynamics; Pritzker Fellow, The University of Chicago)
- 15.45–16.15: **MOLECULAR COMPOSITION OF THE MECHANOTRANSDUCTION CHANNEL COMPLEX OF COCHLEAR HAIR CELLS** (online)
Ulrich Mueller, Ph.D., (Bloomberg Professor of Neuroscience, Johns Hopkins University)
- 16.15–16.45: **MECHANICAL GATING OF THE TMC1 TRANSDUCTION CHANNEL IN HAIR CELLS** (online)
David Corey, Ph.D. (Bertarelli Professor of Translational Medical Science, Harvard Medical School)



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- 16.45–17.15: **CRITICAL BEHAVIOR IN THE ACTIVE PROCESS OF COCHLEAR HAIR CELLS** (online)
James Hudspeth, MD., Ph.D. (E.M. Kirby Professor of Neuroscience, Rockefeller University)
- Break
- 17.30–18.00: **SENSITIVITY AND TUNING IN HAIR CELLS OF THE INNER EAR** (online)
Dolores Bozovic, Ph.D., (UCLA Center for Biological Physics)
- 18.00–18.30: **SEEKING DRUG THERAPY FOR SENSORINEURAL HEARING LOSSES**
Tibor Zelles, M.D., Ph.D. (associate professor, Dept. Oral Biology and Dept. Pharmacology & Pharmacotherapy, Semmelweis University, Budapest; Laboratory of Molecular Pharmacology, Institute of Experimental Medicine, Budapest)
- 18.30–19.00: **THE FIRST ARTIFICIAL SENSORY ORGAN - COCHLEAR IMPLANT**
József Géza Kiss, Ph.D. (professor of audiology, University of Szeged, Albert Szent-Gyorgyi Medical Center, Department of Otolaryngology and Head & Neck Surgery)
- 19.00-19.15: **CONCLUSIONS AND CLOSING**
György Panyi and Miklós Kellermayer