*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)

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*