

Advances in Experimental Medicine and Biology 894

Pim van Dijk
Deniz Başkent
Etienne Gaudrain
Emile de Kleine
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Cris Lanting *Editors*

Physiology, Psychoacoustics and Cognition in Normal and Impaired Hearing



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Deniz Başkent
Etienne Gaudrain
Emile de Kleine
Anita Wagner
Cris Lanting

Department of Otorhinolaryngology / Head and Neck Surgery
University of Groningen
University Medical Center Groningen
Groningen, The Netherlands

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Preface

This volume constitutes the Proceedings of the 17th International Symposium on Hearing (ISH), held from 15 to 19 June 2015 in Groningen, The Netherlands. This meeting continued a great tradition of conferences that started in 1969 and has been held every 3 years. It was the second ISH meeting that took place in Groningen.

The emphasis for the ISH series has traditionally been on bringing together researchers from basic research on physiological and perceptual processes of the auditory system, including modeling. However, this tradition has also meant usually excluding great research on other topics related to hearing sciences, such as hearing impairment, hearing devices, as well as cognitive auditory processes. During the ISH 2015, we have aimed to expand to include such relatively new research, while still continuing with the ISH tradition of basic science. As a result, we had a great program that covered many exciting, and some contemporary, topics from a wide range of disciplines related to auditory sciences.

Following the format of the previous ISH meetings, all chapters were edited by the organizing committee, and these were made available to participants prior to the meeting. The timetable allowed ample time for discussions. The chapters are organized according to broad themes, and their order reflects the order of presentations at the meeting.

We would also like to acknowledge everyone who has contributed to ISH 2015. We would like to thank the Koninklijke Nederlandse Akademie van Wetenschappen (KNAW), Heinsius Houbolt Foundation, The Oticon Foundation, Cochlear Inc., Med-El, Phonak, the Gemeente Groningen, the Provincie Groningen and the Research Institute for Behavioral and Cognitive Neurosciences of the University of Groningen for the financial support. Also thanks to Jellemieke Ekens and Els Jans of the Groningen Congress Bureau for their logistic support. Thanks to Jeanne Clarke, Nawal El Boghdady, Enja Jung, Elouise Koops, Annika Luckmann, Jefta



Fig.1 Conference participants in front of the Familiehotel in Paterswolde

Saija and Mirjan van Dijk for their help during the meeting. Finally we would like to thank all authors and participants for their scientific contributions, and for the lively discussions.

Organising Committee

Pim van Dijk

Deniz Başkent

Emile de Kleine

Etienne Gaudrain

Anita Wagner

Cris Lanting

Ria Woldhuis

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- University of Groningen
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Previous ISH Meetings and Books

ISH 2012

Cambridge, United-Kingdom: *Basic Aspects of Hearing, Physiology and Perception*. Edited by B.C.J. Moore, R.D. Patterson, I.M. Winter, R.P. Carlyon, H.E. Gockel. Springer: New York.

ISH 2009

Salamanca, Spain: *The Neurophysiological Bases of Auditory Perception*. Edited by E.A. Lopez-Poveda, A.R. Palmer, R. Meddis. Springer: New York.

ISH 2006

Cloppenburg, Germany: *Hearing-From Sensory Processing to Perception*. Edited by B. Kollmeier, G. Klump, V. Hohmann, U. Langemann, M Mauermann, S. Uppenkamp, J. Verhey. Springer: New York.

ISH 2003

Dourdan, France: *Auditory signal processing: physiology, psychoacoustics, and models*. Edited by D. Pressnitzer, A. de Cheveigné, S. McAdams, L. Collet. Springer: New York.

ISH 2000

Mierlo, Netherlands: *Physiological and psychophysical bases of auditory function*. Edited by D.J. Breebaart, A.J.M. Houtsma, A. Kohlrausch, V.F. Prijs, R. Schoonhoven. Shaker Publishing: Maastricht.

ISH 1997

Grantham, United-Kingdom: *Psychophysical and physiological advances in hearing*. Edited by A.R. Palmer, A. Rees, A.Q. Summerfield, R. Meddis. Whurr Publisher: London.

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Carcans, France: *Auditory Physiology and Perception*. Edited by Y. Cazals, L. Demany and K. Horner. Pergamon: Oxford.

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Groningen, Netherlands: *Basic issues in hearing*. Edited by H. Duifhuis, J.W. Horst, H.P. Wit. Academic Press: London.

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Eindhoven, Netherlands: *Hearing theory*. Edited by B.L. Cardozo. IPO: Eindhoven.

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