100 Years Otorhinolaryngology

August 30th – September 2nd 2017

Grosser Hörsaal NORD 1
University Hospital Zurich
Cochlear congratulates University Hospital Zürich on 100 years ORL.

- Working together in partnership is how breakthroughs are achieved.
- USZ has helped countless people directly and indirectly through their commitment to always furthering ideas in research and surgery.
- Cochlear is proud to celebrate this achievement and looks forward to furthering research together in partnership for many years to come.
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Dear Friends

We are proud to announce the 100th anniversary of the Department of Otorhinolaryngology, Head and Neck Surgery in Zurich. The Department was separated from Internal Medicine in April, 1917. Since then, developments and innovations, especially in surgery of the skull base, ear, nose and head & neck, have evolved, enabling us to offer our patients the best possible care.

Our 100th anniversary is not only an occasion to review the past but also to take a look into future prospects. What is our discipline’s history and what does the future hold? Our symposium aims to discuss these questions. We will review current knowledge, explore modern technologies and new findings. Topics will be covered in lectures, round table discussions and scientific poster sessions. Numerous well-known international and domestic guests, both with clinical and scientific backgrounds, will join us in the celebration of our department’s anniversary.

It would be a pleasure and honor to welcome you to Zurich.
Alexander Huber, Professor and Chairman
Organization

Honorary advisory board
Professor Ugo Fisch (Chairman of the Department 1970 – 1999)
Professor Stephan Schmid (Chairman of the Department 1999 – 2006)
Professor Rudolf Probst (Chairman of the Department 2006 – 2015)

Organizing committee
Jörg Bohlender
Christof Buhl
Lorenz Epprecht
David Holzmann
Alexander Huber
Gerhard Huber
Bernhard Hutter
Tobias Kleinjung
Nicole Peter-Siegrist
Christof Röösli
Verena Seematter
Michael Soyka
Christian Thüring
Dorothe Veraguth
Claudia Weber
Vincent Wettstein
**General Information**

**When**
August 31st – September 2nd 2017

**Where**
University Hospital Zurich
Grosser Hörsaal NORD 1
Frauenklinikstrasse 10
8091 Zurich

**Venue**
Tramlines 6, 9, 10 to tram stop
ETH / Universitätsspital or Haldenbach

**Organization**
University Hospital Zurich
Department of Otorhinolaryngology Head and Neck Surgery

**Further information**
www.100yorl.org
Accreditation
We are happy to announce that the scientific program of the 100 years celebration was granted 24 credits SGORL.

Wifi-Login
User: 100yorl
Password: 100yorl

Congress fees

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<th>All days (31.08 – 02.09.)</th>
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Please be aware that registration after August 1st 2017 can only take place on site and must be paid in cash. Price: CHF 300 for August 31st – September 2nd, 2017 (CHF 50 surcharge) or CHF 150 (CHF 25 surcharge) for individual days or for those still in training.

Fees for off-site events

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Accreditation
We are happy to announce that the scientific program of the 100 years celebration was granted 24 credits SGORL.
Technical information for speaker and presenters
The lecture halls are equipped with laptop and beamer. We ask the speakers to save their presentation on a USB memory drive and deliver it to the organizers in good time (at latest one hour before the session) in the speakers ready room «AV Check».

Posters in the poster exhibition
Posters are displayed in the poster exhibition throughout the entire congress. Posters have to be in the format A0 portrait 118.9 cm x 84.1 cm (height x width). Posterboards and material/poster strips to hang up your poster will be at your disposal.
– Poster mounting: from Thursday, August 31st until Saturday, September 2nd

Posterviewing
The presenting authors are asked to be present at their posters during the official posterviewing time: from August 31st until Saturday, September 2nd, during lunchtime.
Social Events

Wednesday, August 30th
18.00 pm

Opening Ceremony an Historical Lecture
followed by Wine and Cheese
Zunfthaus zur Meisen
Münsterhof 20, 8001 Zurich

Friday, September 1st
19.00 pm

Gala Dinner
Baur au Lac
Talstrasse 1, 8001 Zurich
Post-congress tour

Sunday, September 3rd

Departure 8.30
Arrival in Zurich 15.30

The tour leads us to the picturesque village of Appenzell by bus. You will have time to stroll through the quaint pedestrian zone with its painted wooden houses.

We then drive to a cable car that takes us to the Säntis mountain. On the top we will have lunch and time to enjoy the view.

After lunch the cable car and bus takes us back to Zurich.
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Wednesday, August 30th

18:00 h  
**Opening Ceremony, Zunfthaus zur Meisen**

1917, Zurich: Establishment of the ORL department (30')
Albert Mudry, Lausanne

Thursday, August 31st

08:00 h  
Registration

09:00 h  
**Opening** (5')
Alexander Huber, Zurich
Gregor Zünd, Zurich
CEO of University Hospital Zurich

**History I**

09:05 h  
Temporal bone laboratory: a successful source of inspiration (10')
Christof Röösli, Zurich

**Chronic Otitis**

Chairs: Herman A. Jenkins, Denver / Daniel J. Lee, Boston

09:15 – 10:00 h  
Current status on middle ear pressure regulation in normal and diseased ears (10')
Michael L. Gaihede, Aalborg

The origin of cholesteatoma revised: Excessive selfhealing of a localized inflammation in the middle ear? (10')
Karl-Bernd Hüttenbrink, Cologne

Long-term effects of Eustachian tube balloon dilatation (10')
Saku Sinkkonen, Helsinki
Petrus bone cholesteatoma: Classification and management (10’)
Mario Sanna, Rome

10:00 h  Roundtable: Chronic otitis media (60’)
Moderator: Thomas Linder, Lucerne
Panelists:
– Naohito Hato, Matsuyama
– Furong Ma, Beijing
– Seiji Kakehata, Yamagata
– Matthew Yung, Ipswich
– Daniel Kaplan, Beer Sheva

11:00 h  Coffee Break I

Thyroid and Parathyroid Surgery

11:30 h  Roundtable: Pearls and pitfalls in thyroid/parathyroid surgery (60’)
Moderator: Gerhard Huber, Zurich
Panelists:
– Christian Simon, Lausanne
– Sandro Stöckli, St. Gallen
– Michael Hier, Montreal
– Joseph Clyde Dort, Calgary
– Cesare Piazza, Brescia
– John Chaplin, Auckland

History II

12:30 h  100 years ORL at the UniversityHospital Zurich – From 1917 to 2017 (10’)
Andreas Eckhard, Zurich

12:40 h  Lunch / Poster

Future Developments
Chairs: Gunesh Rajan, Perth / Sunil Puria, Boston

14:00 –  Molecular profiling and targeted therapeutics in thyroid cancer (10’)
Grégoire Morand, Zurich
Nanotechnology-based cochlear implant with gapless interface to auditory neurons (10’)
Pascal Senn, Geneva

Is the robot a big help or rather an expensive toy (10’)
Christian Simon, Lausanne

Hair cell protection: from bench to bedside (10’)
Daniel Bodmer, Basel

New concepts in middle ear surgery training (10’)
Thomas Zahnert, Dresden

Advances in intraoperative imaging (10’)
David Holzmann, Zurich

Malformation

15:00 h Roundtable: Malformation in otology (60’)
Moderator: Stephen P. Cass, Denver
Panelists:
– Dan Jiang, London
– Thianyu Zhang, Shanghai
– Levent Sennaroglu, Ankara
– Daniel J. Lee, Boston
– Thomas Linder, Lucerne

16:00 h Coffee Break II

Middle Ear Mechanics and Bone Conduction
Chairs: Thomas Zahnert, Dresden / John Rosowski, Boston

16:30 – Pathways contributing to bone conduction hearing in the human (10’)
Stefan Stenfelt, Linköping

Experimental exploration of bone conduction pathways and sound propagation (10’)
Ivo Dobrev, Zurich

Osseointegrated auditory prostheses: current indications and limitations (10’)
Herman A. Jenkins, Denver
BoneBridge – clinical results after six years (10’)
Georg Sprinzl, St. Pölten

Clinical study of the Bone Conduction Implant – results so far (10’)
Sabine Reinfeldt, Goteborg

The widebandwidth light driven contact hearing aid (10’)
Sunil Puria, Boston

Optical coherence tomography and high frequency ultrasound of the ear (10’)
Manohar Bance, Cambridge

Middle ear mechanics in normal and surgically-reconstructed ears (10’)
Jae Hoon Sim, Zurich
An intracochlear acoustic receiver for totally implantable cochlear implants (10’)
Flurin Pfiffner, Zurich

Roundtable: Clinical pitfalls in cochlear implantats (60’)
Moderator: Christof Röösli, Zurich
Panelists:
– Hubert Löwenheim, Tübingen
– Timo Stöver, Frankfurt
– Joseph M. Chen, Toronto
– Heidi Olze, Berlin
– Seung-Ha Oh, Seoul

10:15 h Coffee Break I

Central Skull Base
Chairs: Seung-Ha Oh, Seoul / Luca Regli, Zurich
10:45 – Endoscopic skull base surgery – what makes sense? (10’)
12:00 h David Holzmann, Zurich
Multiportal/multimodal approaches for complex skull base lesions (10’)
Sébastien Froelich, Paris
Alternative approaches to the central skull base (10’)
Kris Moe, Seattle
Roundtable: Challenging cases in skull base surgery (45’)
Moderator: David Holzmann, Zurich
Panelists:
– Joseph M. Chen, Toronto
– Sébastien Froelich, Paris
– Kris Moe, Seattle
– Christoph Schlegel, Lucerne
– Luca Regli, Zurich

12:00 h Lunch / Poster
Tinnitus

Chairs: John Dornhoffer, Little Rock / Tobias Kleinjung, Zurich

13:30 – The psychiatrist’s perspective: CBT, pharmacotherapy,
non-invasive neuromodulation (7’)
Berthold Langguth, Regensburg

14:30 h The ENT perspective: hearing improvement –
from otitis to cochlear implant (7’)
Paul van de Heyning, Antwerp

The neurosurgeon’s perspective: invasive neuromodulation
(DBS, VNS, epid. Stimulation) (7’)
Dirk de Ridder, Dunedin

The neuropsychologist’s perspective: non-invasive
neuromodulation (NFB, tDCS) (7’)
Martin Meyer, Zurich

Roundtable: Can there be a cure for tinnitus in the future? (30’)
Moderators: John Dornhoffer, Little Rock; Tobias Kleinjung, Zurich
Panelists:
– Berthold Langguth, Regensburg
– Paul van de Heyning, Antwerp
– Dirk de Ridder, Dunedin
– Martin Meyer, Zurich

Functional H&N Tumor Surgery

14:30 h Roundtable: Limits in functional tumor surgery (60’)
Moderator: Sandro Stöckli, St. Gallen
Panelists:
– Christian Simon, Lausanne
– Michael Hier, Montreal
– Cesare Piazza, Brescia
– John Chaplin, Auckland
– Gerhard Huber, Zurich
– Joseph Clyde Dort, Calgary
– Martina Broglie Däppen, St. Gallen

15:30 h Coffee Break II
Chronic Rhinosinusitis
Chairs: Christoph Schlegel, Lucerne / Martin Rücker, Zurich

16:00 – Influence of the microbiome on the airways (15’)
Liam O’Mahony, Davos

17:00 h Personalized medicine and targeted treatment in CRS (15’)
Cezmi A. Akdis, Davos

Future of CRS (10’)
Michael Soyka, Zurich

Roundtable: Chronic rhinosinusitis – tough cases (20’)
Moderator: Michael Soyka, Zurich

Panelists:
– Liam O’Mahony, Davos
– Cezmi A. Akdis, Davos
– Daniel Simmen, Zurich
– Urs Steiner, Zurich
– Basile Landis, Geneva

Minimal Invasive
Chairs: Daniel Kaplan, Beer Sheva / Seiji Kakehata, Yamagata

17:00 – Tympanic membrane grafts – printed with bio-compatible inks (10’)
John Rosowski, Boston

What harms more: nasoseptal flap or fascia (10’)
David Holzmann, Zurich

Feasibility and safety of transcanal endoscopic ear surgery: TEES (10’)
Tsukasa Ito, Yamagata

Computer-guided surgery: opening the black box of rhinoplasty (10’)
Kris Moe, Seattle

What shall we pursue in surgery of the neck:
Free flap – local flap or no flap (10’)
Callum Faris, Boston
08:00 h  Registration

**History III**
08:30 h  Internal auditory canal finally fully accessible (15’)
Albert Mudry, Lausanne

**Neurotology**
Chairs: Naohito Hato, Matsuyama / Claudine Gysin, Zurich

08:45 – Zurich interdisciplinary vertigo center:
The otologist’s perspective (10’)
Dominik Straumann, Zurich

Testing vestibular function – what we have learnt in the last 100 years (10’)
Gábor Michael Halmágyi, Sydney

Insights into semicircular canal dehiscence syndrome (10’)
Hideko Nakajima, Boston

Outcomes following transmastoid repair of superior semicircular canal dehiscence (10’)
Stephen P. Cass, Denver

Intraoperative monitoring of vestibular nerve function in otoneurosurgery (10’)
Arneborg Ernst, Berlin

**Standard of Care / How we do it**
09:45 – Intratympanic therapy (10’)
10:45 h  Vincent Wettstein, Zurich

Epistaxis (10’)
Michael Soyka, Zurich

Office based phonosurgery (10’)
Jörg Bohlender, Zurich
Interdisciplinary head and neck treatment (10’)
Gerhard Huber, Zurich

Contemporary management of the tinnitus patient in an interdisciplinary setting (10’)
Tobias Kleinjung, Zurich

10:45 h Coffee Break I

History IV

11:15 h Phoniatic traces in Zurich – development of a medical speciality dealing with communication disorders (15’)
Jörg Bohlender, Zurich

Standard of Care / Elderly Patient
Chairs: Martin Ptok, Hannover / Dorothe Veraguth, Zurich

11:30 – Aging and dementia (10’)
12:30 h Heike A. Bischoff-Ferrari, Zurich

Cochlear implants in the elderly patient (10’)
Norbert Dillier, Zurich

Dizziness in the elderly (10’)
Konrad Weber, Zurich

Chewing problems of the elder patient – the gerodontologist’s perspective (10’)
Julia Kunze, Zurich

Treatment options in elderly – voice problems of the aging voice (10’)
Martin Ptok, Hannover

12:30 h Lunch / Poster and Department Tour
Lateral Skull Base
Chairs: Joseph M. Chen, Toronto / Dirk Beutner, Cologne

14:00 – Epidemiology and natural history of vestibular schwannoma (10’)
Per Cayé-Thomasen, Copenhagen

Paraganglioma genetics, what’s in it for the clinician/surgeon? (10’)
Erik F. Hensen, Amsterdam

The management of ICA and the role of intra-arterial stenting in head and neck paragagliomas (10’)
Mario Sanna, Rome

Roundtable: Lateral skull base: Perspectives in clinical treatment and management (60’)
Moderator: Alexander Huber, Zurich
Panelists:
– Gunesh Rajan, Perth
– Arneborg Ernst, Berlin
– Michael Gleeson, London
– Thomas Klenzner, Dusseldorf
– Antonios Valavanis, Zurich
– Bruce J. Gantz, Iowa City

15:30 h Poster Ceremony

15:45 h Adjourn
1 Influence of prosthesis positioning after ossiculoplasty
   M Alshamani, I Dobrev, M Chatzimichalis, M Schör, C Röösli,
   A Huber, JH Sim, Zurich

2 The distal portion of the endolymphatic sac is a potential site for controlling endolymphatic calcium homeostasis
   D Bächinger, H Egli, S Wunderlin, A Monge Naldi, A Eckhard, Zurich

3 Foreign language education at school in children, adolescents and young adults (10-25 years old) with cochlear implant in the Swiss German Population: Chance or burden?
   R Beeres, C Candreia, C Ohnsorg, S Castellanos, N DeMin, T Linder, Lucerne

4 100 years of care at the clinic for ORL: The history of nursing during the last 100 years at the clinic for ORL
   H Berlepsch-Schreiner, Zurich

5 Evaluation of artifacts of intracochlear electrodes in cone-beam CT
   N Bevis, KB Hüttenbrink, C Güldner, Cologne

6 Occurrence of occult CSF leaks during standard FESS procedures
   S Bucher¹ & A Kugler¹ ², E Probst¹, L Epprecht¹, R Stadler¹,
   D Holzmann¹, M Soyka¹, ¹ Zurich, ² Salzburg

7 Assessment of Cochlear Function During Cochlear Implantation by Extra- and Intracochlear Electrocochleography
   A Dalbert, F Pfiffner, M Hoesli, D Veraguth, C Roosli, A Huber,
   Zurich

8 Bone conduction induced sound wave propagation on the human skull surface
   I Dobrev, JH Sim, St Stenfelt, S Ihrle, R Gerig, F Pfiffner, A Eiber,
   A Huber, C Röösli, Zurich
9 Effect of middle ear transfer function on stapes quasi-static stiffness induced by a novel 3-Axis Force Sensor
I Dobrev¹, C Röösli¹, JH Sim¹, T Linder², A Huber¹, ¹ Zurich, ² Lucerne

10 A 19 year old patient with dysphagia
J Fellmann, G Nikolaou, R Laske, U Steiner, T Kleinjung, G Huber, Zurich

11 Predictors of Cochlear Implants in the Patients With Cochlear Nerve Deficiency
JJ Han, MW Suh, MK Park, JH Lee, SH Oh, Seoul

12 Carcinoma ex Pleomorphic Adenoma in the Pterygopalatine Fossa: First Description and Literature Review after Endoscopic Resection
D Hinder, T Linder, C Schlegel-Wagner, Lucerne

13 Management of advanced otosclerosis with stapedectomy in conjunction with short process vibroplasty (Medel Vibrant Soundbridge)
D Jiang, H Ghulam, HRF Powell, T Nunn, I Pai, London

14 Bioprinting patient-specific cartilage grafts
M Kesti¹, P Fisch¹, M Harder¹, T Linder², D Simmen², M Zenobi-Wong¹, ¹ Zurich, ² Lucerne

15 100 years of care at the clinic for ORL: The history of nursing during the last 100 years at the clinic for ORL
R Kipp, Zurich

16 Association of Epistaxis with Atherosclerotic Cardiovascular Disease: Case-Control Study
S Kunz, D Holzmann, M Soyka, Zurich
17 Does administration of prophylactic antibiotics reduce infective complications in paediatric cochlear implantation?

18 The use of 3D printed external and internal templates for Bonebridge implantation
H Lancer, T Coward, P Torres, D Jiang, R Obholzer, I Pai, London

19 Cervical Spine Disability in Correlation with Subjective Voice Handicap in Patients with Voice Disorders: A Cross-Sectional Study
A Langenfeld, J Bohlender, J Swanenburg, M Brockmann-Bauser, Zurich

20 Correlation between electrically evoked auditory middle latency response (EMLR) and speech assessment
Z Lu, T Pan, F Ma, Beijing

21 Lin28 influences proliferation and cell fate of cochlear progenitor cells
N Luu, J Kempfle, M Petrillo, A Edge, Boston

22 The application of subtotal petrosectomy in cochlear implant for chronic suppurative otitis media suffers
F Ma, Z Lu, T Pan, Beijing

23 Functional partition of the middle ear based on the mucosal histo-morphology
S Padurariu¹, C Röösli², R Røge¹, A Stensballe¹, M Vyberg¹, A Huber², M Gaihede¹, ¹ Aalborg, ² Zurich
24 Sheep as a large animal model for experimental ear research: Transfer function of the middle ear and intracochlear pressure
D Péus, I Dobrev, L Prochazka, JH Sim, A Dalbert, C Röösli, A Huber, F Pfiffner, Zurich

25 A MEMS Condenser Microphone-Based Intracochlear Acoustic Receiver
F Pfiffner¹, L Prochazka¹, D Péus¹, I Dobrev¹, A Dalbert¹, JH Sim¹, R Kesterke¹, J Walraevens², F Harris², C Röösli¹, D Obrist³, A Huber¹, ¹ Zurich, ² Mechelen, ³ Bern

26 Gene expression, signal transduction pathways and functional networks associated with growth of sporadic vestibular schwannomas
H Sass, R Borup, M Alanin, FC Nielsen, P Cayé-Thomasen, Copenhagen

27 Effective Stimulus to the Cochlear: Intracochlear Pressure Measurement
JH Sim, F Pfiffner, L Prochazka, I Dobrev, D Péus, A Dalbert, C Röösli, A Huber, Zurich

28 Learning molecular imaging-based neurologic predictors of cochlear implant outcome in prelingually deaf children
JJ Song¹, J Park², EB Bae¹, I Choi³, H Kang¹, KJ Park², DS Lee¹, SH Oh¹, T Moon², ¹ Seoul, ² Daegu, ³ Iowa City

29 Myringoplasty simulation using a finite element method.
D Takagi, Hidayat, S Okamoto, N Hato, Matsuyama

30 Novel neurotrophin-bisphosphonate conjugates to promote spiral ganglion outgrowth and synaptogenesis in vitro
J Kempfle¹³, C Hamadani¹, K Nguyen², N Koen¹, B Kashemirov², A Edge¹, C McKenna², D Jung¹, ¹ Boston, ² Los Angeles, ³ Tübingen
Faculty List

Cezmi A. Akdis
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