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| 08:30 – 12:30| K1    | **WELCOME OF PARTICIPANTS**

**S01 Tinnitus**
Chairman: H. Aazh; M. Mielczarek, D. Raj-Koziak, E. Gos
1. H. Aazh  The Relationship between Severity of Hearing Loss and Tinnitus Loudness  R-166
2. N. Ferrazoli  Anterior Inferior Cerebellar Artery (AICA): Audiological Profile  R-011
3. S. W. Cheung  Phase I Trial of Caudate Deep Brain Stimulation for Treatment-Resistant Tinnitus  R-123
4. E. Gos  Skarzszyński Tinnitus Scale - a brief and robust tool for assessing tinnitus  R-141

**Keynote Lecture:** H. Kingma
Restoring quality of life in severe bilateral vestibular loss: The vestibular implant and the Balance Belt.
Chairman: D. Raj-Koziak  14:10 – 14:30

| 12:30 – 13:00 | K1    | Lunch |

**S02 Basic Research**
Chairmen: J. Stolovitzky, J. Oliszewski, M. Oldak, W. Świernicki
1. J.H. Lee  Applicability of vital staining and tissue clearing to vascular anatomy and melanocytes’ evaluation of temporal bone in six laboratory species.  R-012
2. W. Chien  Application of Gene Therapy to a Mouse Model of Usher Syndrome  R-013
3. K.W. Park  Changes of blood flow in the cochlea after noise exposure: an animal model  R-027
4. M. Cohen-Vaizer  Imaging tympanic membrane surface vibrations  R-085
5. E. Ocak  Intratympanic Administration of PLGA Nanoparticles to the Inner Ear: Histopathological and Electrophysiological Effects in a Rat Model  R-096
6. C.H. Jiang  Effect of direct current electrical stimulation on the recovery of facial nerve crush injury  R-054

| 13:30 – 14:30 | K1    | **Coffee Break** |

**S03 Tympanic Membrane Repair**
Chairmen: M. Atlas, L. Kishon-Rabin, A. Niedzielski, M. Matusiak
1. A.N. Bervinova  Autologous fibrin glue for the repair of Tympanic Membrane  R-018
2. M. H. Yoo  Extrusion rate and complications according to the type of ventilation tube: Multicenter registry study - Part II  R-064
3. K. Kina  Meatotympanoplasty for External auditory canal stenosis and Lateralized tympanic membrane  R-105
4. T. Tachibana  Spontaneous closure of traumatic tympanic membrane perforation following long-term observation  R-143
5. L. Zheng-Cai  The dose and commencement time-dependent manner of application of EGF on the regeneration of traumatic eardrum perforation  R-158
6. U. Katzenell  The EarWay™ PRO a novel device for evaluation of cerumen  R-159

| 14:30 – 15:00 | K1    | **Coffee Break** |

**Panel: Otolologic Issues of the Geriatric Patient**
Moderator: Y. Agrawal

**Keynote Lecture:** M.D. Atlas
Beating the Drum: A unique bioengineered tympanic membrane repair
Chairman: M.C. Liberman, M. Matusiak, T. Zhang  15:00 – 15:20

| 15:00 – 16:30 | K1    | **Coffee Break** |

**Temporal Bone Workshop**
Instructor: H. Skarzyński, P.H. Skarzyński, M. Mrówka, M. Porowski, R. Barylyak

**Workshop:** Behavioural Experiments in Cognitive Therapy for Hyperacusis
Instructor: H. Aazh  14:30 – 17:30

| 16:30 – 17:00 | K1    | **Coffee Break** |

**Advanced Bionics**

**Workshop:** Vestibular Evoked Myogenic Potentials (VEMPs)
Instructor: E. Papathanasiou

**Networking Mixer & Poster Reception**
29 May, Wednesday – World Hearing Center, Kajetany/Warsaw

Panel: Genetics in Hearing Loss: Orthologous gene wfs1 zebrafish knock
variants in families with low frequency hearing loss
Moderator: A. Sarosiak
Panelists: V. Topsakal, M. Wang

Panel: Panel: Genetics in Hearing Loss: First independent confirmation of STRC copy number variations in families with autosomal dominant hearing loss R-117
Moderator: M. Oldak
Panelists: M. Oldak, A. Sarosiak

Panel: Japan Otological Society Panel: Diagnosis and Treatment of PLF, Lessons from Dehiscence Syndrome Studies
Moderator: T. Ikezono
Panelists: T. Ikezono, E. Martin-Sanz, N. Donnelly, M. Caversaccio, B. Papsin, S. Marlin

Keynote Lecture: D.M. Kaplan
Management of infections developing in children with cochlear implants
Chairman: N. Donnelly, M. Caversaccio, B. Bunionska, M. Uszyńska-Tuzinek
11:00 – 11:20

304 Genetics & Congenital Hearing Loss
Chairmen:
V. Topsakal, S. Marlin, J. Markowski M. Oldak

1. A. Sarosiak Evidence for causative role of PTPRIQ gene in autosomal dominant hearing loss development R-061
2. D. Osieblo First independent confirmation of TBC1D24 as an autosomal dominant hearing loss gene and audiological characteristics of affected individuals R-066
3. A. Madejska First missense variant in N-terminal cytoplasmic region of KCNQ4: analysis of the genotype-phenotype correlation. R-067
5. B. Harasimowicz Important contribution of STRC copy number variations to the development of mild-to-moderate hearing loss R-086
6. M. Oldak Novel variants in known genes’ results of genetic testing in families with autosomal dominant hearing loss R-117
7. M. Oldak Overinterpretation of high throughput sequencing data in medical genetics: first evidence against TMPRSS3/GJB2 digenic inheritance of hearing loss R-120
8. A. Sarosiak Screening for WFS1 gene variants in families with low frequency hearing loss and development of zebrafish knock-down model of the orthologous gene wfs1 R-139
11:20-12:40
15:30 – 16:00  
Panelists:  
S-I. Usami  
S. Marlin  
D. Sieber  
V. Topsakal

16:00 – 17:00  
Coffee break

16:00 – 17:00  
Panel: Otology in Taiwan  
Moderators: A-S. Shiao, L. P-H. Li  
A. Updates on Cochlear Implantation in Taiwan  
1. L-P-H. Li Initial Mapping within 24 Hours and Others: An Evidence-Based Review of 500 Cochlear Implantations in Cheng Hsin General Hospital R-092  
2. C.M. Wu Bilateral Cochlear Implantation in Chang-Gung Memorial Hospital, Taiwan-Preliminary Report of 131 cases R-021  
3. C.C. Wu Precision Medicine in Cochlear Implantation: The Taiwan Experience R-126  
B. Middle Ear Surgery: Microscopic vs Endoscopic  
1. A-S. Shiao Minimally Traumatic Stapes Surgery for Otosclerosis R-108  
2. K-C. Chan The Experience of Bonebridge Implantation for Microtia patients at Chang Gung Memorial Hospital, Taiwan R-164  
3. C.K. Chen The cutting edge development of endoscopic ear surgery in Taiwan. R-155  
C. Updates on Basic Researches of Hearing Impairment in Taiwan  
1. Y. Tsao Noise Reduction based on Fully Convolutional Network to Enhance Speech Intelligibility for Hearing Aid Users R-116  
2. Y-H. Lai The deep learning-based noise reduction technology for cochlear implant recipients R-156

16:00 – 16:20  
Keynote Lecture: A. Szczepak  
Immunology of the Inner Ear  
Chairman: G. Miernik-Niedzielska, B. Krol, M.B. Skarzynska

16:20 – 18:00  
SOS Immunology & Infections  
Chairmen: A. Szczepak, G. Miernik-Niedzielska, M.B. Skarzynska, B. Krol  
1. M.B. Skarzynska Preservation of hearing in patients suffering from partial deafness following cochlear implantation R-128  
2. A. Jotic Biofilm formation and chronic otorrhea after cholesteatoma surgery R-023  
3. K. Kazuhiko Characteristics of the patients with labyrinthitis subsequent to purulent otitis media R-028  
4. Y. Morita Clinical features of otitis media with ANCA-associated vasculitis (OMAAV) showing hypertrophic pachymeningitis R-032  
5. M. Noda Microglial activation in the cochlear nucleus after early hearing loss in rats R-106  
6. A. Harguindey Antoli-Candela Myringoplasty with double medial-lateral graft: technique and results R-112  
7. E. Yoshihiko Myringoplasty with the patients with Eosinophilic Otitis Media R-113  
8. W. She Relationships between glucocorticoid sensitivity and prognosis of refractory sudden sensorineural hearing loss R-134  
9. A. Harguindey Antoli-Candela Revision Stapedectomy: Cement Fixation R-136

16:20 – 18:00  
Meeting of the Politzer Board of Directors

18:30 – 19:30  
SPECIAL CONCERT OF PATIENTS  
Atrium

19:30 – 21:00  
WELCOME RECEPTION  
Atrium & Park Kajetany
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<tr>
<th>Time</th>
<th>Panel/Session</th>
<th>Chairmen</th>
<th>Moderators/Panelists</th>
<th>Presentations/Abstracts</th>
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<tr>
<td>10:00 – 10:30</td>
<td>coffee break</td>
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</table>
5. M. Ilie  
Hearing recovery in advanced otosclerosis  
R-071  

6. H. Monobe  
Postauricular Periosteal/Pericranial Flap for Mastoid Obliteration  
R-125  

7. J.H. Lee  
Healing acceleration of mastoidectomy through the non-incision approach of external auditory canal: CASPER procedure.  
R-076  

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**Panel: Bone Conduction Implants**  
Moderator: P.H. Skarżyński  
Panelists:  
J. Gavillan  
E. Mylanus  
M. Zernotti  
R. J. Stokroos  
K. Cywka  

**Panel: Challenges in Cochlear Implantation**  
Moderator: L. Lustig  
Panelists:  
L. Lustig Cochlear Implantation in Single Sided Deafness  
B. McGrew Cochlear Implantation after Meningitis  
S. Marzo Cochlear Implantation in the Elderly  
S. Selesnick Cochlear Implantation in patients with vestibular schwannoma  
M. Luntz Challenges in Access to Cochlear Implantation Technology  

**Panel: Issues during the Lifetime of the Cochlear Implanted: Pain, Extrusion, Failures MRI**  
Moderator: D.M. Kaplan  
Panelists:  
S. O’Leary  
M. Barbara  
M. Kaufman Yecheskeli  
M. Bance  

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**Panel: S09 Vestibular dysfunctions**  
Chairmen:  
J. Magnan, G. Tacikowska, M. Sosna, K. Pietrasik  

1. S.E.J. Connor  
Asymmetric enlargement of endolymphatic structures on MRI improves sensitivity for unilateral Meniere’s disease  
R-015  

2. G. Tacikowska  
Discrepancies in vestibular organ function tests in patients with endolymphatic space disorders  
R-053  

3. S. Ohshima  
Endolymphatic hydrops: imaging analysis and its correlation with vestibular and cochlear findings  
R-056  

4. M. Kobayashi  
Influence of endolymphatic hydrops on acoustic energy absorbance  
R-090  

5. D. Zhang  
Long-term outcomes of triple semicircular canal plugging for the treatment of intractable Meniere’s disease: a single center experience of 361 cases  
R-100  

6. J. Wang  
Therapeutic effect of personalized vestibular rehabilitation training on refractory vertigo  
R-170  

7. B. Dobbels  
Vestibular testing and its relationship to symptoms and falls in 119 patients with bilateral vestibulopathy  
R-179  

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**Keynote Lecture: J. Magnan**  
Vestibular Neurotomy: 40 years’ experience  
Chairman: J. Rubinsten, M. Bance, G. Tacikowska  
15:10 – 15:30  

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**Coffee Break**
16:00 – 17:00

Keynote Lecture: L. Lassaletta
Facial Nerve Tumors: What you won’t find in the books
Chairman: L. Lustig, N. Özgirgin, R. Barylyak
16:00 – 16:20

Keynote Lecture: R. de Brito Neto
Jugular Foramen Surgery: pre-operative management and surgical advances
Chairman: S. Selesnick, P. Caye-Thomasen, M. Porowski
16:20 – 16:40

Keynote Lecture: C. F. Dai
The subgroups of paraganglioma in jugular foramen and bleeding control strategies of inferior petrous sinus
Chairman: J. Magnan, O. Adunke, B. Miaskiewicz
16:40 – 17:00

S07 Epidemiology Studies
Chairmen:
M. E. Zernotti, M. Sanfins, W. Katmierczak, W. Świerniak
1. W. Świerniak Comparison of the frequency of positive hearing screening outcomes in school-age children around the world: a telemedicine model R-044
2. B. Lee Epidemiology and prevalence of Vestibular Migraine in patients with dizziness symptoms presenting to an ENT clinic using 2018 ICHD-3b criteria R-058
3. Y. Ai Hearing Threshold Level in the Elderly of Northern China R-081
4. M. Gocel Influence of age on the results of Dichotic Digit Test (DDT) based on analysis of hearing screening in school-age children R-089
5. W. Świerniak Prevalence of hearing loss among Polish school-age children from rural areas - results of 10 years' experience hearing screening program R-129
6. S. Arslan Transcanal Pedicled Clip Tympanoplasty: A Novel Technique For Closure Of Central Tympanic Membrane Perforations R-173

S10 Cochlear Implants
Chairmen:
A. Ramos-Macias, P. Singhal, M. Durko, E. Włodarczyk
1. P. Singhal Hearing preservation in CI: A comprehensive review and meta-analysis for strategic planning R-079
2. J. Lavy Patterns of failure with different manufacturers implants: a 35 year retrospective R-122
3. M. Delwar Hossain Cochlear Implant program in Bangladesh Armed Forces R-034
4. M. Durko A case of cochlear implantation in 31 years old woman with Fahr's disease. R-003
5. D. Ozięblo Cochlear implantation outcome in patients with DFNB1 locus pathogenic variants R-037
7. E. Amilibia Cochlear implant in vestibular schwannoma surgery, How to assess acoustic nerve integrity with an intracochlear test electrode R-033

17:00 – 19:00

Politzer Society General Assembly
### 30 May, Friday – Hilton Warsaw Hotel & Convention Centre

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<tr>
<th>Room</th>
<th>WHI (430 seats)</th>
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<tr>
<td>1. M.E. Zernotti Audiological Outcomes in Children with Microtia/Atrioea Implanted with Transcutaneous Active Bone Conduction Hearing Implant R-016</td>
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<td>2. M. Mrówka Baha in various acquired and congenital ear malformations in children R-020</td>
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<td>3. K.W. Heo Causes and prevention of revision surgery for preauricular sinus: a histopathological analysis R-026</td>
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<td>4. K.M. Diab Experience in Surgical Treatment of Congenital Aural Atresia Combined with Microtia R-063</td>
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<td>5. E.K. Bhargava Friends, Romans, Countrymen, Lend me your Ears - A Novel Combined Approach to Prominent Ears R-069</td>
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<td>6. F. Hill Hearing outcomes of surgery versus implantable hearing devices in congenital aural atresia: a literature review and our experience. R-078</td>
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<td>7. C. Li Three-Stage Functional Ear Reconstruction for Microtia with Congenital Aural Stenosis R-171</td>
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<td>Keynote Lecture: A. Goyal Status of Otological Training in India</td>
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<td>Chairman: A. Lalwani, H. Sudhoff, A. Panasiwicz</td>
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### S11 Digital Telemedicine and Digital Health in Otology

**Chairmen:**
- W. Glinkowski, P.H. Skarżyński, E. von Wallenberg, N. Czajka

1. D. Cha - Automated diagnosis of an ear disease utilizing deep learning R-019


3. J. Kutyba - Mobile applications in teleaudiology - possibilities of application and their effectiveness. R-147

4. O. Yahav - Subjective Visual Vertical evaluation using a smartphone-based test R-147

5. O. Rosiak - Virtual Reality exercise program for Peripheral Vestibular Deficit R-180

### 12:00 – 14:00

**Advanced Bionics Satellite Symposium**
- **12:05 – 12:50**
  - Invited Lecture: D. B. Welling Innovations in Tinnitus
    - Chairman: S-H. Oh, N. Donnelly, D. Raj-Koziak
    - **14:00 – 14:30**
      - Panel: The Next Step in Treating Vestibular Disorders
        - Moderator: N. Özgirgin
        - Panelists:
          - M. Barbara
          - A. Ramos - Macias
          - J. Rubinstein

**Keynote Lecture:** P. Singhal
- A double blind randomized controlled study on comparison of conventional versus total annulus excision technique for tympanoplasty: a novel approach
- **14:00 – 14:20**
- Chairman: E. Offeziers, S. O’Leary, K. Łazęcka

**Panel: Tinnitus Measurement in Otological Diseases**
- Moderator: D. Raj-Koziak
- Panelists:
  - B. Welling
  - A. Szczepak
  - M. Mieczarek
  - K. Stefański

### 14:05 – 15:30

**Panel: Skul Base**
- **Chairmen:**
  - N. Ozgirgin, S. O’Leary, K. Łazęcka, M. Buksińska

1. H. Sugimoto - Combined microscopic/endoscopic approach for petrous apex cholesteatoma R-041

2. V. Sharma - Endoscopic approaches to the lateral skull base: A Review R-057

3. C.H. Nabuurs - Evaluation of the Modified Pittsburgh Classification for Predicting Disease-Free Survival of Squamous Cell Carcinoma of the External Auditory Canal R-080

4. A. Trinidade - Fulminant cervical spine metastasis and resulting quadriplegia following lateral temporal bone resection for auricular squamous cell carcinoma. R-072

5. K.M. Diab - Management and Surgical Outcomes in Patients with Lateral Skull Base Paragangliomas R-103


7. Y.B. Zhang - Predictors of distant metastasis and survival in adenoid cystic carcinoma of the external auditory canal R-127

8. V. Chrobok - Tumours of the ear and temporal bone with facial nerve paresis R-174

### 15:30 – 16:00

- **Coffee Break**
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| 16:00 – 17:30| Politzer Prize Session | Invited Lecture: M. Stewart  
Patient-based outcomes assessment in Otology/Neurotology  
Chairman: M. Kameswaran, W.W. Jędrzejczak, R. Milner  
16:00 – 16:30  
Panel: Current Challenges in Cochlear Implantation for Surgeons, Audiologists, and Patients  
Moderator: R. Perez  
Panelists: L. Kishon-Rabin, S. Saeed, M. Matusiak, J. Lavy  
16:30 – 17:00  
Keynote lecture: M. Barbara  
The Esteem invisible middle ear implant: 12 years’ experience,  
Chairman: J. Magnan, L. Śliwa, A. Szkiełkowska |
|              |                | 17:30 – 18:00  
P13 Patient-Based Outcomes Assessment  
Chairmen: M. Stewart, W.W. Jędrzejczak, M. Zgoda, D. Szuber  
1. J. Kobosko  
The subjective assessment of a cochlear implant benefit in adults with the prelingual deafness  
R-167  
2. J.J. Rajchel  
Adaptation of Nijmegen Cochlear Implant Questionnaire into Polish  
preliminary results  
R-009  
3. K. Pryztula-Kandzia  
Patients life quality after cochlear implantation  
R-121  
4. M. Kuszyszynska  
Self-reported benefit after cochlear implantation in patients with unilateral hearing loss and no tinnitus.  
R-140  
5. L. Guerzoni  
Socio-emotional adjustment of adolescents with cochlear: Loneliness, emotional autonomy, self-concept, and emotional experience at the hospital  
R-142 |
|              |                | 18:00 – 18:30  
P16 MEI  
Chairmen: M. Barbara, L. Lassaletta, L. Śliwa, B. Dziendziel  
1. A. Deveze  
An Adaptive Feedback Cancelling Algorithm for the Cochlear™ Carina® System:  
Experimental & Clinical Results  
R-010  
2. M. Mrówka  
Application of Vibrant Soundbridge in hearing restoration after modified radical mastoidectomies in children  
R-014  
3. U. Katzenell  
The Use Of The Vibrant Soundbridge With The Short Process Coupler In Patients With Hearing Loss And External Auditory Canal Pathologies  
R-169  
4. F. Denoyelle  
Use of IIOG classification to categorize middle ear surgery in children: evaluation after 3 months of use in 118 tympanoplasties  
R-176  
5. L. Śliwa  
Wideband absorbance in patients provided with middle-ear implants: A preliminary study  
R-182 |
|              |                | 19:30 – 00:30  
Park Kajetany NETWORKING PARTY (50 euro) |
1 June, Saturday – Hilton Warsaw Hotel & Convention Centre

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<th>Time</th>
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<tr>
<td>Panelists:</td>
<td>10:00 – 10:20</td>
<td>1. Y. Fu Postauricular abscesses resulting from cholesteatoma associated with congenital aural stenosis: The pathophysiology and</td>
<td>2. H. Yazama Relationship</td>
<td>2. H. Yazama Relationship</td>
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| 11:45 – 13:15 | Panel: Hearing Preservation Cochlear Implantation – Mechanisms and Strategies to Improve Results and Reasons for Hearing Loss  
Moderator: T. Lenarz  
Panelists: J. Patrick |

| 11:15 – 11:30 | CONFERENCE CLOSING CEREMONY |

| 11:30 – 11:40 | Keynote Lecture: A. Goyal  
Surgical management of Complicated Cholesteatoma  
Chairman: O. Adunka  
11:45 – 12:05 |

| S17 Advances in cochlear implantation  
Chairmen: T. Lenarz, J. Rubinstein, A. Walkowiak, M. Matusiak |

| 1. M. Luntz  
Active optimization of interaural matching between a CI and a contra-lateral HA ‘Naida Link Technology’ R-008 |
| 2. T. Thomas & S. Elituts  
Comparing hearing preservation and functional outcomes in Advanced Bionics perimodiolar vs. lateral wall electrode arrays R-043 |
| 3. F. Hill  
Outcomes of the Oticon Neuro 2ti EVO Electrode Insertion: Radiological perspectives R-119 |
| 4. R.H. Vithalani  
The Advanced Bionics Naida Link UP and CROS: our experience at a single United Kingdom Centre R-153 |
| 5. T. Lenarz  
Intraoperative ECochG Monitoring of the Slitcil Electrode Insertion in Patients with Low Frequency Residual Hearing R-094 |
| 6. S. Weder  
Towards a Better Understanding of Electrocochleography: Analysis of Real-time Recordings R-172 |
| 7. A. Kowalczyk  
Evaluation of ECochG for the monitoring of cochlear implant electrode insertion R-059 |
| 8. M. Cohen-Vaizer  
Use of Intraoperative ECochG in Hearing Preservation Cochlear Implant Surgery R-177 |

| S18 Difficult Ears  
Chairmen: M. Kameswaran, F. Denoyelle, S. Usami, J. Rostkowska |

| 1. A. Dhanasingsh  
Classification of Cochlear Hypoplasia based on 3D Images R-030 |
| 2. H.M. Khudhair  
Cochlear implant surgery in non-developed mastoid process R-035 |
| 3. K.M. Diab  
Cochlear Implantation Outcomes in Cases of Cochlear Malformations R-038 |
| 4. M. Mrowka  
Cochlear implants surgery in congenital middle and inner ear malformations in children R-040 |
| 5. M. Cohen-Vaizer  
Complicated acute mastoiditis: Is surgery always necessary? R-045 |
| 6. H.M. Khudhair  
Intraoperative surgical findings and difficulties of pediatric cochlear implantation R-095 |
| 7. A. Dhanasingsh  
Relevance of age on mastoid thickness and overall skull width in relation to CI including Inner-ear malformation cases R-135 |
| 8. M. Shimada Dias  
Surgical indications for the inner ear malformation associated with bacterial meningitis R-149 |

| 1.5 treatment R-124 |
| 2. S. Jesic  
Comparative Study of Predictors for Destructive capacity of Primary Acquired Cholesteatoma in Children and Adults R-042 |
| 3. M. Mrówka  
Congenital cholesteatoma in children – case presentations R-047 |
| 4. E.K. Bhargava  
It’s Cement to Be - Mastoid obliteration using injectable hydroxyapatite cement R-098 |
| 5. F. Denoyelle  
Malformations associated with congenital cholesteatoma of the middle ear R-101 |
| 6. C. Neumann  
Difficult bacterial malformation associated with congenital cholesteatoma in children: a learning curve and lessons learned through revision surgery R-104 |
| 7. Y. Yamamoto  
National Survey of Middle Ear Cholesteatoma using Staging and Classification Criteria Proposed by the Japan Otological Society R-114 |
| 8. M. Komin  
Safe Open Cavity Reconstruction Using a Sliced Cartilage Graft to Control Cholesteatoma Recurrence after Canal Wall-down Tympanoplasty R-117 |

| 524 CN VII & VIII Pathologies  
Chairmen: N. Ozgurgin, R. de Brito, M. Porowski, E. Wlodarczyk |

| 1. O. Yahav  
Hearing improvement after sudden sensorineural hearing loss as a predictor of vestibular schwannoma R-077 |
| 2. L. Li  
Case analysis for facial nerve paralysis in children R-025 |
| 3. T. Hasegawa  
Cochlear Implantation Outcomes of Cochlear Malformations R-038 |
| 4. K. Takahashi  
Functional surgical approach to the petrous apex cholesteatoma: a new surgical approach while referring to the patient-specific 3D-printed model R-073 |
| 5. K. Nishizaki  
MRI evaluation of endolymphatic hydrops: significance for stapes surgery R-110 |
| 6. L. Li  
The effect of surgical repair on facial nerve function reconstruction R-161 |

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