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Place of Birth: Roma, Italy

Languages: Italian (mother language), English (C1 speaking and writing), French (C1 speaking, B2 writing)

Research expertise: Neuro-Oto-Audiology and Neuroinflammatory/Neurodegenerative diseases

National Academic Certification and Qualification: qualified as Associate Professor in Audiology and Neuro-otology, qualified as Ordinary Professor in Otolaryngology

Education

09/2021-09/2024 “*Master of Science in Clinical Neurology*”, UCL Queen Square Neurology, London, UK

01/2021-12/2021 “*Master in Implantable hearing prosthesis*”, University La Sapienza, Rome, Italy

9/2016-7/2017 “*Master in Applied Biostatistic*” Harvard Medical School Boston, MA, USA

1/2003-01/2007 “*PhD -Advanced Audiology Technologies*” La Sapienza University, Rome, Italy

1992-1999 “*MD – Medicine*” La Sapienza University, Rome, Italy

Post-doctoral training

03/2015-02/2017 “*Senior Research Fellow Otology and Laryngology*” Harvard Medical School, Boston, MA

09/2012-06/2014 “*Clinical Fellow Facial Plastic and Reconstructive Surgery*” Segalen University, Bordeaux, France

09/2009-06/2011 “*Clinical Fellow Microsurgery*” Paris 13 University, Paris, France

05/2008-05/2009 “*Clinical Fellow European Academy of Facial Plastic Surgery*”

10/1999-11/2003 “*Resident (summa cum laude) Otolaryngology*” La Sapienza University, Rome, Italy

Additional Course

2017 “*Medical writer in Science*” (Two Months course with final exam: achieved) Stanford University, CA, USA

2016 “*DNA replication and Repair*” (Three months course) MIT, Boston (MA), USA

2016 “*Precision Medicine*” (Two months on line course) George Town University, Washington DC, USA

2016 “Useful in GENETIC” (Four months course with final exam: achieved) British Columbia University, Vancouver (CA)

Faculty Academic Appointments

01/2024- Current “*Clinical Research Fellow*”, UCL Queen Square Neurology, UCL, London, UK

01/2022- current “*Associate (rtdB) Professor of Otolaryngology*”, University of Catania, Catania, Italy

12/2021- 07/2022 “*Visiting Professor Otolaryngology Department*”, University of Tor Vergata, Rome, Italy

01/2021-07/2022 “*Adjoint Professor Master of Auditory Science in Pediatric*”, University of Perugia, Perugia, Italy

01/2021-current “*Adjoint Professor Master of Practice Vestibology*”, University La Sapienza, Rome, Italy

10/2020-12/2021 “*Adjoint Professor of Audiology and Hearing Rehabilitation*”, University of Perugia, Perugia, Italy

2019- current “*Honorary Research Associate*”, Neuroinflammation Laboratory, UCL, London, UK

2018- 2021 “*Coordinator Research activities of the Otolaryngology Department (Associate professor rank)*” University of Perugia, Perugia, Italy

2017- 2018 “*Temporary Assistant Professor (Research Assistant)*” University of Padua, Padua, Italy

2006-2007 “*Coordinator of the Audiology & Speech Language*” Therapy Program, Audiometric Techniques Graduate School La Sapienza University, Rome, Italy

2003-2007 “*Adjunct professor, Image Elaboration and Laboratory I*” School of Information Science, University of Bologna, Cesena campus, Italy

Appointments at Hospitals

29/02/2024- 30/06/2024 *Honorary Clinical Assistant*, University College London Hospital, London, UK

09/12/2020-8/12/2021 *Neurotology-Audiology Assistant Physician (Otolaryngologist)*” University Hospital Santa Maria della Misericordia, Perugia, Italy

05/ 2017- 07/2018 “*Assistant Physician (Otolaryngologist) and Responsible Otolaryngology Research Line*” IRCCS San Camillo, Venice, Italy

01/2013-06/2013 “*Investigator, Head and Neck Oncology*” Maxillo-Facial Surgery Department, Pitié-Salpêtrière Hospital, Paris, France

04/2012-07/2012 “*Assistant Physician*” Head and Neck Oncology Department, Centre Médical de Forcilles, Férolles-Attilly, France

12/2011-03/2012 “*Consultant, ENT and Microsurgery*” HUDERFF Children University Hospital, Brussels, Belgium

06/2009-09/2011 “*Consultant, Facial Nerve Disorders*” Head and Neck Neuroscience Department, San Camillo-Forlanini Hospital Rome, Italy

09/2007-05/2008 “*Consultant, Facial Nerve Disorders*” Otolaryngology Center (Mario Sanna, MD, director), Rome, Italy

01/2007-05/2008 “*Consultant, Facial Nerve Disorders*” Head and Neck Neuroscience Department, San Camillo-Forlanini Hospital Rome, Italy

08/2004-12/2006 “*Assistant Physician*” Facial Paralysis Center Otolaryngology Department, Policlinico Umberto I University Hospital, Rome, Italy

09/2004-12/2006 “*Consultant for Facial Nerve Disorders*” Infective Disease Department, Policlinico Umberto I University Hospital, Rome, Italy

Major Administrative Leadership Positions

2014-2016 “*Director, Facial Palsy Center*” ArsMedica Clinic, Rome Italy

2004-2006 “*Director, Facial Palsy Center*” Policlinico Umberto I University Hospital Rome, Italy

Committee Service

2013- 2016 “*Member of French National Agency of Health (ANSM) Agence National Santé Medicale*”, Paris, France

2008- “*Member expert in Otolaryngology, Facial Plastic and Audiology*” Guide Point Global USA

2016- “*Member expert in Otolaryngology,*” M3 Global Research, Italy

Professional Societies

2017- *Full-Member* European Academy of Otolaryngology & Neuro-Otolaryngology (EAONO)

2016- *Full-Member* International Otopathology Schuknecht Society

2014- *Member* Association for Sleep Disorders (ASSIREM)

2008- *Full-Member* European Academy Facial Plastic Surgery (EAFPS)

Invited Grant Review Activities

2014- *Ad Hoc Reviewer* Italian Association for Multiple Sclerosis, Rome, Italy

2013-2016 *Temporary Reviewer the Evaluation of National Research Protocols*, ANSM Agence National de Santé Medicale, Paris, France

HONORS and AWARDS:

2008 European Academy of Facial Plastic Surgery (EAFPS) Fellowship

2022 Lencioni Prize (First ex-quo) for best experimental work in Otolaryngology – Italian Society of Otorhinolaryngology

2022 Winner Lecco prize for best work in salivary glands- Italian Society of Otorhinolaryngology

2023 First classified Prize Calicetti-Citelli-Pietrantonio advance in Otolaryngology - Italian Society of Otorhinolaryngology

2024 Winner Lecco prize for best work in salivary glands- Italian Society of Otorhinolaryngology

Report of Funded and Unfunded Projects

Current Funded Projects

Santa Lucia IRCSS, Rome, Italy

Co-PI: Iole Indovina e Arianna Di Stadio *Total amount for project: 1.000.000 euro*

2024- current: **Novel rehabilitation protocol for patients with persistent postural perceptual dizziness (PPPD)**. The study aims to evaluate the possible treatment for PPPD, including but not exclusively new physical rehabilitation protocol.

UCL Queen Square Neurology, UCL, London, UK

Co-PI: Arianna Di Stadio and David Werring *Total amount for project: to define*

2024- current: **Brain atrophy and hearing loss in Hemosiderosis**. This study aims to evaluate the findings related to the progression of brain and cerebellar atrophy (ie CSF changes) and the relation between cerebellar atrophy and sensorineural hearing loss.

Hannover University ENT Department

PI: Arianna Di Stadio and Athanasia Warnecke

2023- current: **Subclinical Hearing loss and Multiple Sclerosis**

This study aims to investigate the subclinical prevalence of auditory disorders the early onset of multiple sclerosis (MS). Using a battery of auditory test, including DPOAE, we are investigating the hearing capacity. All patients undergo to CSF sampling and analysis of inflammatory markers, to identify a correlation between MS and inner ear alterations.

University of Catania, GF Ingrassia Department, Otolaryngology Unit, Catania, Italy

PI: Arianna Di Stadio *Total amount for project: 80.000 euro; Industry funds*

2022- current: **Treatment of tinnitus and sensory disorders of central and peripheral origin: multicentric study.**

This study aims at identifying new treatment for tinnitus, hearing loss and sensory disorders both related to central origin, as for example arising from COVID, or caused by vascular peripheral disorders. Different molecules are used, and patients are investigated by audiological, electrophysiological test, blood test MRI and functional MRI.

University of Perugia, Otolaryngology Department, Perugia, Italy

PI: Arianna Di Stadio *Total amount for project: 150.000 euro; Industry funds*

2020- current: **Treatment of post Covid-19 anosmia: multicentric National clinical trial**

This study aims to identify the treatment for anosmia post-Covid19. Because anosmia is due to olfactory bulbs inflammation, we are combining an anti-neuroinflammation treatment to olfactory rehab (modified scheme) to support the recovery of smell. Patients are randomized, clinically studied by endoscopy and Sniffin' test at different follow-up to understand the efficacy of different treatments.

UCL, Queen Square Neurology and Neuroinflammation Laboratory, London UK

PI: Arianna Di Stadio and Professor Kennet Smith

2019-current: Cause of Hearing loss in EAE rats' model and its treatment

This study aims to investigate the causes of hearing deficit in EAE rats to understand if the origin of the disease is in the peripheral (inner ear) or in the central auditory pathways. Furthermore, I am investing if it is possible to polarize microglia in its good state by using different drugs. The study combines electrophysiology and analysis of the animal tissue.

University of Perugia, Otolaryngology and Neurology Department and University La Sapienza of Rome, Organ of sense Department

PI: Arianna Di Stadio *Total amount for project: 30.000 euro; University funds*

2018- current: Hearing loss and Multiple Sclerosis

This study aims to investigate the prevalence of hearing loss (HL) in the early onset of multiple sclerosis (MS) and to identify if the symptom arises from a central or a peripheral involvement of hearing pathways. In the same time, we evaluated the prevalence of HL in patients affected from different forms of MS. We collect audiological and radiological data.

2017: Perilymph and Cochlear Implants

Aim of this study is to identify the different content in human perilymph and to correlate it to the performance after cochlear implantation. The perilymph will be collected before electrode' insertion and analyzed by biomolecular techniques. Author hypothesis is that perilymph component has a role to determine hearing performance after implantation. The incidence of vertigo after surgery will be evaluated correlating it with perilymph contents.

Past funded and unfunded Projects

University of Perugia, Otolaryngology Department, Meyer Hospital of Florence and Referent Center of Deafness of Naples

PI: Arianna Di Stadio *Total amount for projects: 80.000 euro; Industry funds*

2017-2019: Brain Connection and Cochlear Implant

This study wants to evaluate the modification in brain connection before and after cochlear implant. The study is conducted on two different population –adults and children-. We will match the results of neuropsychological test and speech/audiology evaluation with the answers obtained by Electroencephalography, functional MRI and FDG PET.

IRCCS San Camillo, Neuroscience Department, Venice Lido, Italy

PI: Arianna Di Stadio *Total amount for projects: 30.000 euro; from private foundations*

2017: Hearing loss and mitochondria disease

Aim of this study is to identify a molecular biomarker in patients affected from mitochondria disease and Hearing Loss (HL) that can be used as monitor of problem progression or as indicator of improvement after drugs treatment.

2017: Central damage and SensoriNeural Hearing loss

This a comparative study to evaluate the correlation between brain lesion in patients affected from MIC and Alzheimer and their hearing thresholds. The identification of the lesions in different area of the hearing pathways can explain the correlation within hearing loss and memory loss increasing in these diseases.

Laboratory of Bioacoustics Engineering, Neuroscience Department, University of Padua, Padua, Italy

PI: Arianna Di Stadio and Laura Astolfi

Total amount for projects: 20.000 euro; University and foundation funds

2017: Otoage and antioxidant proprieties

This study on OCK3 cells, is focused on the evaluation of abilities of Otoage to increase the vitality and improve the metabolic conditions in cells. We utilize OCK3 due to the previous preliminary results from clinical study showed an improvement of high frequency SNHL and a reduction of tinnitus in subject within 55 and 70 years using this oral supplement.

2017: Microglia, diabetes and hearing pathways

This study on rats wants to evaluate the microglia in any part of hearing pathways to identify its role in determining hearing disease. It is a case control study comparing rats affected from diabetes with healthy control. The presence and the state of microglia will be looked for in brain and in the cochlea.

University of Perugia, Otolaryngology Department, Meyer Hospital of Florence and Referent Center of Deafness of Naples

PI: Arianna Di Stadio *Total amount for 1year project: 18.000 euro; Industry funds*

2017: Single Side Deafness and brain development in children

The study compared the brain function in children affected from Unilateral Hearing Loss (UHL) with hearing aids, bone anchorage prosthesis and without. Aim of the study is to understand the variation in working memory and logic-mathematical abilities in subjects with bilateral hearing (hearing aids, bone anchorage and normal) compared with subjects affected from UHL but without treatment.

Otolaryngology department, University of Padua

Co-PI: Arianna Di Stadio and Elisabetta Zanoletti

Total amount for both projects: not applicable because found from clinical departments

2017: Surgical treatment of tinnitus due to loop of Internal Auditory Canal

Aim of this study was to evaluate the long-term results using a retro-sigmoid approach to decompress auditory nerve.

Otolaryngology department, University of Padua and Wayne state University

Co-PI: Arianna Di Stadio, Rosario Marchese Ragona and Evanthia Bernitsas

2017: Spasmodic Dysphonia treatment in patients with Multiple Sclerosis

Aim of this study was to evaluate the long-term effect of botulin toxin A in patients affected from multiple sclerosis that present spasmodic dysphonia disease related. Spasmodic dysphonia was identified as very rare symptom of Multiple Sclerosis.

IRCCS San Camillo, Neuroscience Department, Venice Lido, Italy

PI: Arianna Di Stadio *Total amount for project: 8000 euro; private foundation*

2017: Dysphonia and Multiple sclerosis

Aim of this study was the identification of particular parameters as speech time, breath expiration time, loudness, pitch in patient with Multiple sclerosis to evaluate if a evidence difference in those parameters where comparing it with normal subjects and not degenerative disease it is present.

University of Perugia, Otolaryngology Department, Meyer Hospital of Florence and Referent Center of Deafness of Naples

2017 Endoscopic approach to the Internal Auditory Canal and nerves decompression

Co- PI: Arianna Di Stadio and Jean Paul Yves Magnan

Total amount for project: not applicable because found from clinical departments

Aim of this study was to evaluate the results of a fully endoscopic approach to the Internal auditory Canal (IAC) in term of clinical recovery, recurrence and complication. The study was conducted on patients affected from facial hemispasm, tinnitus and vertigo.

Massachusetts Eye and Ear Infirmary, Otolaryngology Department, Boston (MA), USA.

Co-PI: Konstantina Stankovic and Arianna Di Stadio

Money came from residual of NIH grants: amount not available

2016 Correlation between Temporal bone findings, hearing loss threshold and White Matter Hyperintensities

Aim of this study was to evaluate if the audiometric threshold and the results of the word recognition test are directly linked to a cochlear damage only or, if a central component represented by white matter hyper intensities in the area of speech and hearing can modify these results reducing the word recognition percentage and increasing the audiometric threshold. The study correlates the cochlea damage to the relative frequency to identify a correlation or not between the lost cells and the findings.

Co-PI: Arianna Di Stadio Charles Guttmann and Konstantina Stankovic

2016 Is speech discrimination related to white matter hyperintensities in the elderly brain?

Aim of this study was to investigate the role of white matter lesions in the auditory cortex, temporal, parietal and frontal lobe and if they have a role in the ability of speech perception in elderly patients. The study conducted on MRI has evaluated the hyperintensities in T2-weighted images.

PI: Arianna Di Stadio MD, PhD

2016 Identification of the correct method to count the spiral ganglion in the human temporal bone

Aim of the study tried to identify which is the easier, more reproducible and at the same time more precise method to count the spiral ganglion in the human temporal bone. The study has been conducted on human temporal bone with normal hearing threshold and normal speech perception test.

Massachusetts Eye and Ear Infirmary, Otolaryngology Department, Boston (MA), USA.

Co-PI: Arianna Di Stadio and Felipe Santos

Amount for project: 6000 dollars; funds from MEE Otology Department

2016_Hearing loss findings in patients affected by Loop of Internal Auditory Canal

Aims of this study, conducted analyzing MRI in T2, audiometric test and Word Recognition test, was the identification and the consequence on the cochlear nerve determinate by the presence with contact between vessel and cochlear nerve in the IAC.

Cochlear Europe Project –Hospital Circolo Fondazione Macchi, Varese, Italy.

PI: Arianna Di Stadio *Amount for project: 12000 euro; private industry*

2016 Retrospective study of speech prosody in deaf pre-lingual children undergoing cochlear implant

Aims of this study was as first to investigate the improvements of bilateral implantation vs Unilateral Implantation, in the prosodic ability in normal condition (in quiet and noise) and then to compare the prosodic ability of CI subjects and normal hearing subjects' age matched and second to evaluate the influence on prosody acquisition of early age of implantation and Electrode Array position. This is a clinical study involving human. We studied the prosody variations using DAAR (R) software.

Massachusetts Eye and Ear Infirmary, Otolaryngology Department, Boston (MA), USA.

PI: Felipe Santos

2015-2016 Prevalence of Internal Auditory Canal Arachnoid Cyst

The aim of this study was to find the presence of Arachnoid Cyst IAC and evaluate the effects of its presence on the nerve' function. This study was conducted by analyzing MRI in 3 D look for the Cyst in IAC, and a microscopic study of the nerve tissue using HIC look for a nerve demyelization.

PI: Michael McKenna and Felipe Santos

2015-2016 Retrospective qualitative and quantitative facial nerve microglia evaluation in patients affected by Wegener's disease, Multiple Sclerosis and Bell palsy.

The aim of this study conducted on temporal bone was to show the pathological presence of microglia in facial nerve. We evaluated the microglia states (active or not) and the number of cells. The study wanted to correlate the presence and the quantity of microglia with different pathological setting to understand which condition activates the strongest microglia response.

PI: Arianna Di Stadio

Amount for project: 6000 dollars; funds from MEE Otology Department

2015- 2016 New parameters to identify the loop position relatives to the nerve in Internal

Auditory Canal (IAC). The aim of this retrospective blinded study on MRI, was to find the relation between loop of internal auditory canal and ear symptoms. To identify this relationship, we

standardized new parameter of analysis based on loop and its relative nerve position. In this study we were going to find not only new parameters but also a new method to analyze the IAC.

2015-2016 Retrospective qualitative and quantitative study of cochlear, vestibular and facial nerve for microglia evaluation in patients affected by Multiple Sclerosis (MS).

The aim of the study was to analyze the presence of microglia in the IAC's nerves. Facial palsy, hearing disorders and vertigo are quite common symptoms in MS and current literature link these symptoms to CNS damages determinate from MS. We looked for the presence of microglia in the nerves because we'd like show that the symptoms were not related to CNS only but also to a direct microglia action on peripheral nerve.

Pitié-Salpêtrière Hospital, Maxillo-Facial Surgery Department, Paris, France.

PI: Patrick Goudot, MD and Chloe Bertolus MD

2013-2104 Objective criteria for oral squamous cell carcinoma evaluation in patients over 70.

The aim of this national multi-centric study was defining objective evaluation criteria to properly manage oral squamous cell carcinoma in individuals over 70.

2013-2014 Malignant transformation of oral lichen planus

The aim of this study was to understand which factors lead to the transformation of lichen ruber planus into carcinoma. We have evaluated habit, age, oral pattern and intraoral pH.

Research Coordinator and Principal Investigator

2013- 2015

Santo Spirito Hospital, ENT Department, Rome, Italy

PI: Arianna Di Stadio

Otoage: a new antioxidant cocktail for the treatment of tinnitus.

The aim of this study was the evaluation of an antioxidant cocktail (OTOAGE) on tinnitus and age-related hearing loss disease. Collaborator: Lino Di Rienzo Businco, MD.

2009-2011

Ecole de Chirurgie et Microchirurgie de Paris, Paris, France

PI: Arianna Di Stadio

Experimental protocol of microsurgery: flap facial reconstruction of the thigh, after removal of emiface with preservation of the facial nerve in mice Vistar.

Study of a surgical technique, mimic facial cancer in mice, able to preserve facial nerve and to evaluate the effects of re-anastomosed carotid-jugular flap, in function of time life and quality of mice.

2006-2009

Department of ENT Prof. R. Filipo, La Sapienza University of Rome, and Department of Head and Neck/Neuroscience. Prof G. Bellocchi, Hospital St. Camillus / Forlanini of Rome, Rome, Italy

PI: Arianna Di Stadio

1) New methods for the evaluation of facial paralysis.

The study was performed to look for a new assessment in clinical evaluation of Facial Palsy. The new assessment (ADS scale) was created to find a solution for synkinesis evaluation and for enrich the assessment of nuances able to understand specific muscle motility.

2) Rehabilitation techniques in facial paralysis. Multidisciplinary approach. Center for the treatment of facial paralysis (Dr D. Ingletto, Dr C. Pianura) Department of Head and Neck/Neuroscience Prof G.Bellocchi, Hopital St. Camillus / Forlanini de Rome.

This study evaluated the different approaches in treatment of facial palsy (General Medicine, Neurology and ENT) and which was the best therapy linked to physiopathology of facial palsy disease. In our study, we made a correlation between the effect of pharmacologic therapy only, the effect of laser therapy, and also the rehabilitation with Kabat.

Prof R. Filipo, La Sapienza University of Rome. University of Bologna-Cesena, Faculty of Computer Prof. L. Montefusco. Italy

Co-PI: Arianna Di Stadio Damiana Lazzaro and Laura Montefusco

During PhD: **DAAR: new software voice analysis in patients undergoing cochlear implant deaf. Inter-University Centre for research on the problems of deafness**

The aim of this study was to find a digital system able to analyze the prosody in patient undergoing CI. We created specific software able to conduct this research. The DAAR was patented in 2007 at the end of a preliminary study.

Report of Local Teaching and Training

Teaching of students in courses

2022- “*Otolaryngology: The Ear*”, V year Medical Student, University of Catania, three lesson 3 hours each

2022- “*Audiology and Otology basic*” Audio Prothesis course Medicine, University of Catania, full course 15 lessons 2 hours each

2022- “*Audiology and Otology basic*” Audio Prothesis course Medicine, University Tor Vergata of Rome, 8 lessons 2 hours each

2022- “*Management and Coordination*” Neurophysiology Technique, full course 10 lessons 2 hours each

2006-2007 “*Speech and language pathology*” II year Audiometric course Medicine, three lessons a week each semester, University La Sapienza of Rome, Rome, Ital

2003-2007 “*Phoniatic patterns*”, III year Informatic course, two lessons for semester Faculty Bologna Alma Studiorum, Bologna Italy

Formal teaching of residents, Clinical fellows and research Fellows

01/2022- “*Neuro-otolaryngology and Biostatistic*”, ENT residents III, IV and V years and PhD students, 8 lessons 2 hours each

2012 “Daar New digital software”, ENT residents III, IV and V years, 2 hours magisterial lecture, University Catholique Luen Bruxelles Belgium

2012 “*New Assessment in Facial Palsy*”, ENT residents III,IV and V year , one hour magisterial lecture University Catholique Luen, Bruxelles Belgium

2003-2006 “*Facial Palsy Disease*” III year ENT Resident, six hours lecture University La Sapienza, Rome, Italy

2006 “*Facial Palsy Disease*” IV-V year Maxillo facial Surgeon resident and clinical and research Fellows, 4 hours lecture , University La Sapienza, Rome, Italy

Clinical Supervisory and training Responsibilities

2021-2022 Professor Master Auditory Science in Childhood, University of Perugia, Italy

2020- 2021 Professor Master Clinical Vestibology, University La Sapienza, Italy

2018- Tutor Master in Temporal Bone Dissection, University of Perugia, Perugia, Italy

2018- Supervise, instruct, and train residents in operating room, emergency room at ENT Department, Silvestrini University Hospital, Perugia Italy

2003-2006 Supervise, instruct and train residents in operating room, emergency room at ENT Division, Policlinico Umberto I hospital, Rome, Italy

Trained junior residents in:

- General otolaryngology -Otorhinolaryngology emergency -Basic ENT surgery
- General concept in audiology

Trained senior resident in:

- Hearing disorders and rehabilitation techniques (hearing aids, BAHI and CI)
- Speech and language disorders
- Basic technique in facial plastic surgery
- Management facial paralysis

Thesis supervision and tutoring of PhD and post-doc

2003-2006: tutoring and supervision of medical students and ENT residents

2018- : Tutoring and supervision of medical students, ENT residents, PhD students and post-doc.

Report of Technological and other Scientific Innovation

Research Look on line platform October 2015

DAAR Patent application IT 0001379177, 1 august 2007

In collaboration with Dr Damiana Lazzaro of Bologna University Created this software able to analyze the prosody signal in the voice.

Report of Scholarship

Peer Reviewed Publications

Otology and Neurotology

1. **Di Stadio, A.**; Ralli, M.; Kaski, D.; Koohi, N.; Gioacchini, F.M.; Kysar, J.W.; Lalwani, A.K.; Warnecke, A.; Bernitsas, E. Exploring Inner Ear and Brain Connectivity through Perilymph Sampling for Early Detection of Neurological Diseases: A Provocative Proposal. *Brain Sci.* 2024, 14, 621. <https://doi.org/10.3390/brainsci14060621>
2. **Di Stadio A**, Ralli M, Kaski D. Multisensory Rehabilitation in Elderly to Improve Longevity. *JAMA Otolaryngology -Head and Neck* in press
3. **Di Stadio A**, Greene Jacqueline, Michael J Brenner. Assessing Facial Nerve Function After Salvage Microsurgery for Vestibular Schwannoma. *JAMA Otolaryngology -Head and Neck* in press
4. **Di Stadio A**, De Luca,P, Ippolito V, Vedova P, Garofalo S, Turchetta R, Ferlito S, della Volpe A. Comparative Analysis of Intellectual Quotient in Developmental Population with Severe Hearing Loss: Hearing Aids vs. Cochlear Implant Users. *Life* 2024, 14, 12. [h>ps://doi.org/10.3390/life14010012](https://doi.org/10.3390/life14010012)
5. **Di Stadio A**, De Luca P, Koohi N, Kaski D, Ralli M, Giesemann A, Hartung H-P, Altieri M, Messineo D, Warnecke A, Frohman T and Frohman EM (2023) Neuroinflammatory disorders of the brain and inner ear: a systematic review of auditory function in patients with migraine, multiple sclerosis, and neurodegeneration to support the idea of an innovative ‘window of discovery’. *Front. Neurol.* 14:1204132. doi: 10.3389/fneur.2023.1204132
6. Ricci G, Ferlito S, Gambacorta V, Faralli M, De Luca P, Di Giovanni A, **Di Stadio A**. Treatment of Far-Advanced Otosclerosis: Stapedotomy Plus Hearing Aids to Maximize the Recovery of Auditory Function-A Retrospective Case Series. *Healthcare (Basel).* 2023 Feb 24;11(5):676. doi: 10.3390/healthcare11050676.
7. Warnecke A, Staecker H, Rohde E, Gimona M, Giesemann A, Szczepek AJ, **Di Stadio A**, Hochmair I, Lenarz T. Extracellular Vesicles in Inner Ear Therapies-Pathophysiological, Manufacturing, and Clinical Considerations. *J Clin Med.* 2022 Dec 15;11(24):7455. doi: 10.3390/jcm11247455.
8. Ferlito, S.; La Mantia, I.; Merlino, F.; Cocuzza, S.; **Di Stadio, A.**; Cammaroto, G.; Bartel, R.; Fadda, G.; Iannella, G.; Mat, Q.; Gargula, S.; Michel, J.; Fakhry, N.; Maniaci, A. Long-Term Anatomical and Hearing Outcomes of Canal Wall down Tympanoplasty for Tympano-Mastoid Cholesteatoma: A 20-Year Retrospective Study. *Life* **2022**, *12*, 1745.
9. Matteo Cavaliere , Pietro De Luca , Alfonso Scarpa, Adriano Maciej Strzalkowski , Massimo Ralli Matteo Calvanese , Luisa Savignano , Pasquale Viola , Claudia Cassandro , Giuseppe Chiarella and **Arianna Di Stadio**. Combination of Hyperbaric Oxygen Therapy and Oral Steroids for the Treatment of Sudden Sensorineural Hearing Loss: Early or Late? *Medicina* 2022, 58, 1421.
10. Ricci Giampietro, Gambacorta Valeria, Lapenna Ruggero, della Volpe Antonio, Ignazio La Mantia, Ralli Massimo and **Di Stadio Arianna**. The effect of female hormone in otosclerosis. A comparative study and speculation about their effect on the ossicular chain based on the clinical results. *Eur Arch Otorhinolaryngol.* 2022 Feb 21. doi: 10.1007/s00405-022-07295-w.

11. Pietro De Luca, **Arianna Di Stadio**, Vito Colacurcio, Pasquale Marra, Alfonso Scarpa, Filippo Ricciardiello, Claudia Cassandro, Angelo Camaioni, and Ettore Cassandro. Audiovestibular Disorders and Persistent Chemosensory Dysfunction in SARS-CoV-2 Infection: Systematic Review of the Current Evidence. *Acta Ital Otol* in press
12. Maria Albanese, Stefano Di Girolamo, Lorenzo Silvani, Eleonora Ciaschi, Barbara Chiaramonte, Matteo Conti¹, Francesco Maria Passali, Battista Di Gioia, Nicola Biagio Mercuri¹ and **Arianna Di Stadio**. Distortion Product Otoacoustic Emissions and Their Suppression as Predictors of Peripheral Auditory Damage in Migraine: a Case-control Study. *J Clin Med*. 2021 Oct 27;10(21):5007. doi: 10.3390/jcm10215007.
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Miscellaneous

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7. **Arianna Di Stadio**, Reuven Ishai, Valeria Gambacorta, Fiammetta Korsch, Giampietro Ricci, Antonio della Volpe, and Evanthia Bernitsas Nutraceuticals as immune-stimulating therapy to fight COVID-19. Combination of elements to improve the efficacy. *Eur Rev Med Pharmacol Sci*. 2020 Sep;24(17):9182-9187
8. **Arianna Di Stadio**, Giampietro Ricci, Antonio Greco, Marco de Vincentiis and Massimo Ralli Mortality rate and gender differences in COVID-19 patients dying in Italy: A comparison with other countries. *Eur Rev Med Pharmacol Sci* 2020; 24 (8): 4066-4067.
9. Saponara M., **Di Stadio A**. et al “Morphological and functional alteration of facial muscle and temporomandibular joint due to OSAS”; *Nuova rivista Di Neurologia* 11(1); Feb. 2001:14-16
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Non Peer-Reviewed publications (BOOK Chapter)

- 2024 **Di Stadio A** , Hamiter MJ, Roccamatysi D and Lalwani AK Hearing Loss and Alzheimer disease. *Neurobiology of Alzheimer Disease*. Newhouse P and Kidd E. Springer
- 2024 De Luca and **Di Stadio A**. Sensory disorders, neuroinflammation and COVID-19: smell, taste and hearing. *Thematic approaches to COVID-19*. Vinood B Patel.Elsevier
- 2022 Guerrieri MP, Di Mauro R, Di Girolamo S, **Di Stadio A**. Hearing Aging. *Biochemistry and Cell Biology of Ageing: Part IV, Clinical Science*. Harris R. Springer

- 2020 **Di Stadio A**, Ralli M, Brenner MJ, Greco A. Autoimmune Inner ear disease. Translational Autoimmunity (volume 4): Autoimmune Disease in Different Organs. Rezaei N. Elsevier
- 2019 Ricci G, **Di Stadio A**, della Volpe A. Congenital Aural Atresia: hearing rehabilitation by bone anchored hearing implant (BAHI) in the book “Advance in rehabilitation of hearing loss”.
- 2019 **Di Stadio A**, De Lucia A, Ippolito V and Della Volpe A “Single Side Deafness in children: up to date” in the book “Sensorineural Hearing Loss: Pathophysiology, Diagnosis and Treatment”
- 2015 Di Stadio A. “Speedy and Easy technique in facial palsy Surgery” in the book “Facial Paralysis: Clinical Features, Management and Outcomes”.
- 2000 Mattioni A, Rinaldi M., **Di Stadio A.**, Germano F., Sitzia E. “Auditory evoked potential” in the book “Hearing loss: medical-legal aspect”.

Clinical Guidelines and Reports

Authorization of clinical protocols addressed to “Receivers human body products” and to “Innovative therapies” like member of France National Agency for Health safe (ANSM).

PATENTS and DESIGNS:

2015 Research Look online Platform

2013 OTOAGE and MY FACE COMPLEX oral supplements, creator of the formulations and holder of the registrations.

August 2007 Patent holder of “DAAR: New Digital software for the studies of vocal parameters in implanted children” (0001379177) Italy

INSCRIPTION MEDICAL ORDERS:

GMC- London (UK) 2019- : number 7635965 full registration with license to practice

Rome (Italy) 2001-present: number 50530 full registration with license to practice

Paris (France) 2009-2018 (9 years) full registration with license to practice

Bruxelles (Belgium) Dec 2011-Dec 2012 (1 year) full registration with license to practice