CV Date	21/01/2023

Part A. PERSONAL INFORMATION

First Name	Jose Antonio		
Family Name	Lopez Escamez		
Sex	Male	Date of Birth	25/08/1966
ID number Social Security, Passport	27514338J		
URL Web			
Email Address	jalopezescamez@ugr.es		
Open Researcher and Contributor ID (ORCID)	0000-0002-8583-1430		

A.1. Current position

Job Title	Profesor Contratado Doctor con plaza vinculada		
Starting date	2019		
Institution	Universidad de Granada		
Department / Centre	Cirugia y sus Especialidades / Facultad de Medicina		
Country		Phone Number	
Keywords			

A.3. Education

Degree/Master/PhD	University / Country	Year
Doctor en Neurociencias	Universidad de Granada	1993
Licenciado en Medicina y Cirugía	Universidad de Granada	1990

Part B. CV SUMMARY

Jose Antonio López Escámez is Associate Professor of Otorhinolaryngology at the Department of Surgery, Division of Otorhinolaryngology, Hospital Virgen de las Nieves, Universidad de Granada since October 2019. I am also a Senior Researcher at the Centre for Genomics and Oncology Research (Genyo) since 2012, and member of the Royal Academy of Medicine in Eastern Andalusia since 2013. He is ranked in the Standford World Top 2% Scientists in 2022.

He has been serving as Scientific Director of the Instituto de Investigación Biosanitaria de Granada (ibs.Granada) since May 2018 until December 2020. He is also professor in 3 Masters: Tissue Engineering and Advanced Therapies, Neurosciences and Pain and Genetics and Evolution at the University of Granada, having mentored 24 Masters students and 15 undergraduate students. Since 2013, he has been professor in the Doctorate Programme in Biomedicine (UGR), being director of 9 Doctoral Theses and currently supervising another 8 PhD students.

His research activity focuses on genomics of vestibular disorders, aiming the identification of genes and alterations of the immune system in Meniere disease (MD), a rare disease of the inner ear that causes vertigo, neurosensorial hearing loss and tinnitus, as well as on the genetic basis of tinnitus. He has received funding from Instituto de Salud Carlos III and H2020 MSC-ITN European School for Tinnitus Research (http://www.esit.tinnitusresearch.org), Gender-NET plus (TIGER) and H2020 Unified treatments for tinnitus UNITI (https://uniti.tinnitusresearch.net). He has been awarded with 3 six-years periods of research in 2021.

His training includes a degree in Medicine and Surgery (1984-90), continued as a pre-doctoral researcher (1991-93), including a Master's degree in Clinical Genetics at UGR (1991) and a doctoral thesis on aminoglycoside-induced ototoxicity in the otolytic membrane of the vestibular system (director, Antonio Campos). His pre- and post-doctoral training was completed at the Dept Physiology, St. Thomas Hospital, London (supervisor, Alice Warley; 1991, 1994) and at Kresge Hearing Research Institute, Ann Arbor, Michigan (supervisor, Jochen Schacht; 1992 and 1993) where I performed isolation of vestibular hair cells to investigate the transport of Ca2+.

I completed my training as an ENT resident at the Hospital Virgen de las Nieves (1995-1999), starting to work at the Hospital de Poniente in 1999 where I remained until 2015, being coordinator of the Research Department during 2008-9. I have a solid experience in clinical otoneurology with advanced training in vestibular neurophysiology and expertise in genomics of vestibular disorders. In 2002, I founded the Otology and Neurotology Group, which has consolidated itself as the European leader in Ménière's disease genetics. I started at Genyo in 2011 as Associate Researcher, being appointed PI in 2012. He was visiting researcher at the Centre for System Biomedicine in Luxembourg to design a molecular map of Meniere's disease in 2017-18.

As a PI in several multicentre projects in Spain, he has organized an international collaboration network for the study of MD (Meniere's disease Consortium) and he has also participated in 6 clinical trials in patients with acute vertigo and tinnitus, being national coordinator in 2 of them. His CV includes >152 publications in journals, with more than 6500 total citations and H index= 32 (web of Science) 43 (Google Scholar). He has published 4 books in otoneurology and registered 5 patents.

Part C. RELEVANT ACCOMPLISHMENTS

C.1. Most important publications in national or international peer-reviewed journals, books and conferences

AC: corresponding author. (nº x / nº y): position / total authors. If applicable, indicate the number of citations

1 **Scientific paper**. Lidia Frejo; Teresa Requena; Satoshi Okawa; et al; (AC). (24/24). 2017. Regulation of Fn14 receptor and NFkB underlies inflammation in Meniere disease Frontiers in Immunology. Frontiers. doi: 10.3389/fimmu.2. ISSN 1664-3224. https://doi.org/10.3389/fimmu.2017.01739

2 **Scientific paper**. Maas IL; Brüggemann P; Requena T; et al; Cederroth CR (AC). (11/11). 2017. Genetic susceptibility to bilateral tinnitus in a Swedish twin cohort Genetics in Medicine. Nature Publishing Group. 19-9, pp.1007-1012. ISSN 1098-3600. https://doi.org/10.1038/gim.2017.4

3 **Scientific paper**. Carmen Martin Sierra; Teresa Requena; Lidia Frejo; Steven Price; Alvaro Gallego Martinez; Anna Lysakowski; (AC). (7/7). 2016. A novel missense varint in PRKCB segregates low-frequency hearing loss in an autosomal dominant family with Meniere's disease Human Molecular Genetics. Oxford Journals. 25-16, pp.3407-3415. ISSN 0964-6906. https://doi.org/10.1093/hmg/ddw183

4 **Scientific paper**. Pablo Román Naranjo; Alberto M. Parra Perez; Alba Escalera Balsera; et al;. 2022. Defective α-tectorin may involve tectorial membrane in familial Meniere disease Clinical and Translational Medicine. Clinical and Translational Medicine.

5 **Scientific paper**. MDC Moleon; Torres Garcia; Batuecas Caletrio; et al;. 2021. A Predictive Model of Bilateral Sensorineural Hearing Loss in Meniere Disease Using Clinical Data.Ear Hearing. Ear Hearing. https://doi.org/10.1097/AUD.0000000000001169

6 **Scientific paper**. P Roman Naranjo; MDC Moleon; Aran; et al;. 2021. Rare coding variants involving MYO7A and other genes encoding stereocilia link proteins in familial meniere disease.Hearing Research. Hearing Research. https://doi.org/10.1016/j.heares.2021.108329

7 **Scientific paper**. Sana Amanat; Alvaro Gallego Martinez; Joseph Sollini; et al;. 2021. Burden of rare variants in synaptic genes in patients with severe tinnitus: An exome based extreme phenotype study EBioMedicine. 66-103309. https://doi.org/10.1016/j.ebiom.2021.103309

8 **Scientific paper**. Shoujun Gu; Rafal Olszewski; Lacey Nelson; Alvaro Gallego-Martinez; Jose Antonio Lopez-Escamez; Michael Hoa. 2021. Identification of Potential Meniere's Disease Targets in the Adult Stria Vascularis Frontiers in Neurology. Frontiers. 12-630561, pp.1-12. https://doi.org/10.3389/fneur.2021.630561

9 **Scientific paper**. Pablo Roman-Naranjo; Alvaro Gallego-Martinez; Andres Soto-Varela; et al;. 2020. Burden of Rare Variants in the OTOG Gene in Familial Meniere's Disease Ear and Hearing. Wolters Kluwer. X-X, pp.X-X. ISSN 0196-0202. https://doi.org/10.1097/AUD.0000000000000878

10 **Scientific paper**. Patricia Perez-Carpena; Jose Antonio Lopez-Escamez. 2019. Systematic review on the current understanding and clinical management of Meniere's disease Seminars in Neurology. Thieme Medical Publishers. XX-XX, pp.XX-XX. ISSN 0271-8235.

11 **Scientific paper**. Alvaro Gallego-Martinez; Jose Antonio Lopez-Escamez. 2019. Genetic architecture of Meniere's disease Hearing Research. Elsevier. ISSN 0378-5955. https://doi.org/10.1016/j.heares.2019.107872

12 **Scientific paper**. Patricia Perez-Carpena; Marta Martinez-Martinez; Ramon Angel Martinez-Carranza; Angel Batuecas-Caletrio; Jose Antonio Lopez-Escamez. 2019. A tinnitus symphony in 100 patients with Meniere's disease Clinical Otolaryngology. Wiley. 44-6, pp.1176-1180. ISSN 1749-4486. https://doi.org/10.1111/coa.13438

13 **Scientific paper**. Alvaro Gallego-Martinez; Teresa Requena; Pablo Roman-Naranjo; Patrick May; (AC). (5/5). 2019. Enrichment of damaging missense variants in genes related with axonal guidance signalling in sporadic Meniere's disease Journal of Medical Genetics. BMJ Group. ISSN 0022-2593. https://doi.org/10.1136/jmedgenet-2019-106159

14 **Scientific paper**. (AC); Arnaud Attyé. (1/2). 2019. Magnetic resonance imaging of endolymphatic hydrops: Controversies and common ground Journal of Vestibular Research. IOS Press. XX, pp.XX-XX. ISSN 1878-6464. https://doi.org/10.3233/VES-180663

15 **Scientific paper**. (AC); Lidia Frejo; Alvaro Gallego-Martinez; et al;. (1/14). 2019. Differential proinflammatory signature in vestibular migraine and Meniere disease Frontiers in Immunology. Frontiers. 10-1229, pp.1229. ISSN 1664-3224. https://doi.org/10.3389/fimmu.2019.01229

16 **Scientific paper**. (AC); Jose Antonio Lopez Escamez. (1/2). 2019. Systematic review of magnetic resonance imaging for diagnosis of Meniere disease Journal of Vestibular Research. IOS Press. 29, pp.121-129. ISSN 1878-6464. https://doi.org/10.3233/VES-180646

17 **Scientific paper**. Alvaro Gallego-Martinez; Teresa Requena; Pablo Roman-Naranjo; (AC). (4/4). 2019. Excess of rare missense variants in hearing loss genes in sporadic Meniere disease Frontiers in Genetics. Frontiers. ISSN 1664-8021. https://doi.org/10.3389/fgene.2019.00076

18 **Scientific paper**. Michael Strupp; Marco Mandala; (AC). (3/3). 2019. Peripheral vestibular disorders: an update Current Opinion Neurology. Wolters Kluwer. 32, pp.165-173. ISSN 1350-7540. https://doi.org/10.1097/WCO.0000000000000649

19 **Scientific paper**. Agnieska Szczepek; Lidia Frejo; Natalia Trpchevska; Christopher Cederroth; Helena Caria; (AC). (6/6). 2018. Recommendations on collecting and storing samples for genetic studies in hearing and tinnitus research Ear and Hearing. Wolter Kluwer. ISSN 0196-0202. https://doi.org/10.1097/AUD.0000000000000614

20 **Scientific paper**. Lidia Frejo; Alvaro Gallego-Martinez; Teresa Requena; et al; (AC). (13/13). 2018. Proinflammatory cytokines and response to molds in mononuclear cells of patients with Meniere disease Scientific Report. Nature Publishing Group. 8-Art.5974. ISSN 2045-2322. https://doi.org/10.1038/s41598-018-23911-4

21 **Scientific paper**. Frejo L; Martin-Sanz E; Teggi R; et al; Lopez-Escamez JA (AC). (20/20). 2017. Extended phenotype and clinical subgroups in unilateral Meniere disease: a cross-sectional study with cluster analysis Clinical Otolaryngology. Wiley Online Library. PMID: 28166395, pp.DOI: 10.1111/coa.12844. ISSN 1749-4486. https://doi.org/10.1111/coa.12844

22 **Scientific paper**. Teresa Requena Narraro; Sonia Cabrera; Carmen Martin Sierra; Steven Price; Anna Lysakowski; (AC). (6/6). 2015. Identification of two novel mutations in FAM136A and DTNA genes in autosomal dominant Meniere's disease Hum Mol Genet. Oxford University Press. 24-4, pp.1119-1126. ISSN 0964-6906. https://doi.org/10.1093/hmg/ddu524

C.3. Research projects and contracts

1 **Project**. H2020-848261, Unification of treatments and intervention for tinnitus patients (UNITI). EU H2020. Windried Schlee. (Hospital Universitario Virgen de las Nieves). 01/01/2020-31/03/2023. 5.989.343,75 €.

2 **Project**. In Vitro Clinical Trial with BIIB023 and monitoring of clinical response in Meniere Disease (CLINMON-MD). Jose Antonio Lopez Escamez. (Instituto de Investigacion Biosanitario de Granada ibs.GRANADA). 01/01/2019-30/12/2022. 176.487 €.

3 **Project**. The combined role of genetic and environmental risk factors in the gender-specific development of severe tinnitus. H2020 Gender-NET Plus. Christopher Cederroth. (Centre for Genomics and Oncological Research (Genyo)). 22/02/2019-21/02/2022. 1.000.000 €. Principal investigator.

4 **Project**. Papel de la variante reguladora rs4947296 y la respuesta proinflamatoria en la enfermedad de Meniere. Instituto de Salud Carlos III. Jose Antonio Lopez Escamez. (Centre de Genomica e Investigacion Oncologica GENYO). 01/01/2018-31/12/2020. 171.820 €.

5 **Project**. Validación de un marcador genético regulador de la inflamacion para el diagnostico de enfermedad de Meniere autoinmune (DIEMA). Teresa Requena Navarro. (Centro de Genomica e Investigacion Oncologica (Genyo)). 01/07/2017-31/05/2019. 14.000 €.

6 **Project**. Diseño de un mapa clínico-molecular para la enfermedad de Meniere (MD-CONNECT). Consejeria de Salud. Jose Antonio Lopez-Escamez. (Luxembourg Centre for System Biomedicine/Genyo). 01/11/2017-30/06/2018. 24.782,91 €.

7 **Project**. Genomic profiling for deep phenotyping in patients with early onset Meniere disease (Gen4Phen). Consejería de Salud de la Junta de Andalucía. Alvaro Gallego Martinez. (Instituto de Investigación Biosanitaria de Granada). From 01/03/2022. 92.908 €.

8 **Project**. Caracterización multiómica de modelos de herencia recesiva en pacientes con enfermedad de Ménière esporádico de inicio precoz (M3N-OMIC). Universidad de Granada. Jose Antonio Lopez Escamez. (Universidad de Granada). From 01/01/2022. 30.000 €.

9 **Project**. Papel de regulación epigenómica en la penetrancia y expresividad en la enfermedad de Meniere (EPIMEN). Universidad de Granada. Jose Antonio Lopez Escamez. (Universidad de Granada). From 01/10/2021. 153.170 €.

10 **Project**. Generation, Characterization and Differentiation of hiPSC derived from MD patients into 3D human inner ear organoids. Contrato Sara Borrell. Instituto de Salud Carlos III. Jose Antonio López Escámez. (Instituto de Investigación Biosanitaria de Granada). From 01/01/2021. 80.598 €.

11 **Project**. Modelo celular de enfermedad de Menière y mecanismos moleculares en la enfermedad autoinmune/autoinflamatoria del oído interno. Contrato postdoctoral. Consejeria de Economia, Conocimiento, Empresas y Universidad. Jose Antonio López Escámez. (Instituto de Investigación Biosanitaria de Granada). From 01/01/2021. 124.350 €.

12 **Project**. Perfil de citoquinas y analisis integrado multiomico para redefinir fenotipos clínicos en pacientes con enfermedad de Meniere, migraña y migraña vestibular (Cytomic-Phen). Instituto de Salud Carlos III. Jose Antonio López Escámez. (Instituto de investigación Biosanitaria de Granada). From 01/01/2021. 165.770 €.