

Otorhinolaryngology and Head and Neck Cancer

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DESCRIPTION

Our group is dedicated to research related to Otorhinolaryngology and Head and Neck tumors, both at a clinical and translational level.

The main area of research of our group is Head and Neck Cancer. In this field, we have a large database of all Head and Neck Cancers treated in our Hospital since 1985. We research on clinical aspects, as well as the study of genetic, molecular, or inflammatory factors that are relevant to prognosis and/or response to different treatments. In recent years we also focused on the use of nanoparticles in the treatment of head and neck cancer. In this field, we have permanent and strong collaborations. Inside the IR we collaborate with two groups mainly: Oncogenesis and antitumour drugs (Dr. Ramon Mangues) and Genomics of Complex Diseases (Dr. Mercedes Camacho). Outside our institution we also have permanent collaborations with national and international groups.

Also, we are dedicated to clinical studies in endoscopic nasal and skull base surgery. Finally we work also on different otological problems, mainly genetic deafness with strong collaboration with the Genetic Department.

MAIN LINES OF RESEARCH

- Head and Neck Cancer.
- Endoscopic nasal and skull base surgery.
- Otologic genetic disorders.

ACTIVE GRANTS

- Leon Vintro, Xavier. Evaluación de nanopartículas para la entrega dirigida de fármacos contra células tumorales CXCR4+ en modelos in vitro y murinos.



05.1.2 Oncohematologic Diseases Area

nos de Carcinoma Escamoso de Cabeza y Cuello. PI19/01661. Instituto de Salud Carlos III (ISCIII). Duration: 2020-2023. 125.840,00 €.

- Quer Agustí, Miquel. Nanopartículas dirigidas al estroma tumoral como nuevo tratamiento para el cáncer escamoso de cabeza y cuello. PI21/00232. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2024. 159.720,00 €.

DOCTORAL THESES DEFENDED

- Bagué Rosell, Sílvia. Capacitat pronòstica de l'expressió de gens relacionats amb el metabolisme de la glucosa en el control local dels pacients amb carcinoma de cap i coll. 17/02/2023. Universitat Autònoma de Barcelona. Supervisors: Avilés Jurado, Francesc Xavier; Camacho Perez de Madrid, Mercedes; León i Vintró, Xavier. <http://hdl.handle.net/10803/688678>.
- Casamitjana Claramunt, José Francisco. Detecció del carcinoma de laringe mitjançant videolaringoscopia amb imatge d'autofluorescència AFI. 25/04/2023. Universitat Autònoma de Barcelona. Supervisors: Quer Agustí, Miquel; Roca-Ribas Serdà, Francesc. <http://hdl.handle.net/10803/690354>.
- Ramírez Ruiz, Rosa Delia. La electromiografía laríngea en las alteraciones del movimiento de las cuerdas vocales. 10/02/2023. Universitat Autònoma de Barcelona. Supervisors: Quer, Miquel; Sandoval Puig, Marta. <http://hdl.handle.net/10803/688681>.

SCIENTIFIC PRODUCTION

- Chiesa CM, González JA, Genden EM, Piazza C, Guntinas O, Vander V, Kowalski LP, López F, Quer M, Rodrigo JP, Sanabria Á, Fernández V, Suárez C, Cohen O, de Bree R, Shaha AR, Makitie AA, Ferlito A. Complications related to the Cook-Swarz implantable Doppler probe use in head and neck microvascular reconstruction: a systematic review. EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY. 2023; 280(1)DOI:10.1007/s00405-022-07577-3. PMID:35941283. IF:2,600 (Q2/3D). Document type: Review.
- Chiesa CM, González JA, Larruscain E, Sistiaga JA, Quer M, León X, Martínez P, López C, Mayo M, Medela A. Facial nerve palsy following parotid gland surgery: A machine learning prediction

outcome approach. World Journal Of Otorhinolaryngology - Head And Neck Surgery. 2023; 9(4) DOI:10.1002/wjo2.94. Document type: Article.

- Holgado A, León X, Quer M, Camacho V, Fernández A. Association between maximum standardized uptake value (SUV) and local control in patients with oropharyngeal carcinoma treated with radiotherapy. Acta Otorrinolaringologica Española. 2023; 74(4)DOI:10.1016/j.otorri.2022.05.004. PMID:37149130. Document type: Article.
- Laccourreye O, Mirghani H, Guiquerro S, Quer M, Giraud P. Perception of survival/laryngeal preservation trade-off in advanced T-stage laryngeal cancer. European Annals of Otorhinolaryngology-Head and Neck Diseases. 2023; 140(2) DOI:10.1016/j.anorl.2022.12.008. PMID:36642664. IF:2,500 (Q2/4D). Document type: Review.
- León X, Bague S, Holgado A, Quer M, Terra X, Camacho M, Aviltes FX. Relationship between transcriptional expression of pyruvate dehydrogenase and local control of disease in patients with oral cavity carcinomas. Acta Otorrinolaringologica Española. 2023; 74(6)DOI:10.1016/j.otorri.2023.05.001. Document type: Article.
- León X, Farré N, Montezuma L, Holgado A, Vázquez R, Neumann E, Quer M. Results of radiotherapy in oropharyngeal carcinomas. Acta Otorrinolaringologica Española. 2023; 74(3)DOI:10.1016/j.otorri.2022.04.002. PMID:37149134. Document type: Article.
- León X, Gimenez A, de Juan J, Rodríguez C, Quer M, Pujol A. Is long-term screening for lung cancer justified in patients with head and neck carcinoma?. Acta Otorrinolaringologica Española. 2023; 74(5)DOI:10.1016/j.otorri.2022.05.005. PMID:36241026. Document type: Article.
- León X, Llansana A, Pérez L, García J, Valero C, Quer M, Camacho M. Predictive capacity of FAT1 transcriptional expression in patients with head and neck squamous cell carcinomas treated with radiotherapy. Acta Otorrinolaringologica Española. 2023; 74(6)DOI:10.1016/j.otorri.2023.03.003. PMID:37931687. Document type: Article.
- León X, Pujals G, Sauter B, Neumann E, Pujol A, Quer M. Differential characteristics of patients with squamous cell carcinoma of the head and neck with no history of tobacco or alco-



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hol use. *Acta Otorrinolaringologica Española*. 2023; 74(1)DOI:10.1016/j.otorri.2022.02.003. PMID:36709798. Document type: Article.

- Puiggrós IV, Moreno EG, Dotu CO, Agustí M, Díaz FL. Diagnostic Efficacy of High-Resolution Computed Tomography Densitometry for Diagnosing Otosclerosis. *OTOLOGY & NEUROTOLOGY*. 2023; 44(10)DOI:10.1097/MAO.0000000000004012. PMID:37733986. IF:2,100 (Q3/6D). Document type: Article.
- Pujol A, Llansana A, Pérez L, Sauter B, Quer M, León X. Second esophageal neoplasms after head and neck index tumor: Incidence, risk factors and prognosis. *Acta Otorrinolaringologica Española*. 2023; 74(6)DOI:10.1016/j.otoeng.2022.10.009. PMID:37149128. Document type: Article.
- Pujol A, Llansana A, Pérez L, Sauter B, Quer M, León X. Second esophageal neoplasms after head and neck index tumor: Incidence, risk factors and prognosis. *Acta Otorrinolaringologica Española*. 2023; 74(6)DOI:10.1016/j.otorri.2022.10.005. Document type: Article.
- Rodrigo JP, Sánchez M, Triantafyllou A, de Bree R, Mäkitie AA, Franchi A, Hellquist H, Saba NF, Stenman G, Takes RP, Valero C, Zidar N, Ferlito A. Neutrophil to Lymphocyte Ratio in Oropharyngeal Squamous Cell Carcinoma: A Systematic Review and Meta-Analysis †. *Cancers*. 2023; 15(3):802. DOI:10.3390/cancers15030802. PMID:36765760. IF:5,200 (Q2/3D). Document type: Review.
- Sansa A, Valero C, Holgado A, Vásquez R, Quer M, Patel SG, León X. External validation of the H-index (host index) in patients with head and neck squamous cell carcinomas. *HEAD AND NECK- JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK*. 2023; 45(1) DOI:10.1002/hed.27224. PMID:36225167. IF:2,900 (Q1/2D). Document type: Article.