



Nombre: Jesús Ruiz-Cabello Osuna

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Posición y cargo: Catedrático de Universidad

Grupo de Investigación: Grupo de Aplicaciones de la Imagen Biomédica

Docencia: Master

Área de Conocimiento: Química Física

SCOPUS: ORCID: Researcher ID:

ORCID: 0000-0001-8681-5056

Research ID: A-9570-2012

Scopus ID: 7003625720

[Web](#)

Biography:

Jesús Ruiz-Cabello is an expert in the fields of pulmonary and cardiovascular imaging, having made significant contributions to these areas through his involvement in critical articles introducing new functional and molecular imaging biomarkers (e.g., ventilation, perfusion, etc.) in top-tier journals. He has been involved in over 60 competitively-funded projects, 44 of which he served as IP (7 of them European) and seven as coordinator (including one European project in the field of pulmonary imaging). He has co-authored over 237 articles and book chapters and currently chairs the cardiovascular category of the European Society of Molecular Imaging since 2020. He has been the head of the Advanced Imagign Unit of the Spanish National Centre for Cardiovascular Research and currently hold an Ikerbasque Professorship at CIC biomaGUNE. He has been scientific Director of the Spanish Network Centre for Biomedical Research in Respiratory Diseases of the last 10 years.

Research Interest:

His group works in Pulmonary hypertension and other vascular diseases and pulmonary fibrosis. We develop different imaging biomarkers (MRI, PET) and use molecular imaging and multiomics in the discovery phase of these biomarkers. Some recent publications:

1. Martínez-Parra, L.; Piñol-Cancer, M.; Sanchez-Cano, C.; Miguel-Coello, A. B.; Di Silvio, D.; Gomez, A. M.; Uriel, C.; Plaza-García, S.; Gallego, M.; Pazos, R.; Groult, H.; Jeannin, M.; Geraki, K.; Fernández-Méndez, L.; Urkola-Arsuaga, A.; Sánchez-Guisado, M. J.; Carrillo-Romero, J.; Parak, W. J.; Prato, M.; Herranz, F.; Ruiz-Cabello, J.; Carregal-Romero, S. A Comparative Study of Ultrasmall Calcium Carbonate Nanoparticles for Targeting and Imaging Atherosclerotic Plaque. *ACS Nano* **2023 (in press)**.
<https://doi.org/10.1021/acsnano.3c03523>.
2. Aiestaran-Zelaia, Irati; Jesus Sanchez-Guisado, Maria; Villar-Fernandez, Marina; et al; Ruiz-Cabello, Jesus (AC); Holt, Ian J.(11/12). 2022. 2 deoxy-D-glucose augments the mitochondrial respiratory chain in heart SCIENTIFIC REPORTS. 12.
<https://doi.org/10.1038/s41598-022-10168-1>
3. Carregal-Romero, Susana; Groult, Hugo; Canadas, Olga; et al; Ruiz-Cabello, Jesus (AC). (11/11). 2022. Delayed alveolar clearance of nanoparticles through control of coating composition and interaction with lung surfactant protein A BIOMATERIALS ADVANCES. 134. <https://doi.org/10.1016/j.msec.2021.112551>
4. Lechuga-Vieco AV; Latorre-Pellicer A; Calvo E; et al; Ruíz-Cabello J; Enríquez JA. (17/18). 2022. Heteroplasmy of Wild-Type Mitochondrial DNA Variants in Mice Causes Metabolic Heart Disease With Pulmonary Hypertension and Frailty.CIRCULATION. 145, pp.1084-1101.
<https://doi.org/10.1161/CIRCULATIONAHA.121.056286>
5. Carregal-Romero, Susana; Beatriz Miguel-Coello, Ana; Martinez-Parra, Lydia; et al; Ruiz-Cabello, Jesus (AC). (20/20). 2022. Ultrasmall Manganese Ferrites for In Vivo Catalase Mimicking Activity and Multimodal Bioimaging SMALL.
<https://doi.org/10.1002/sml.202106570>