

Cardiac Surgery

Group leader

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MAIN LINES OF RESEARCH

- Off-pump coronary artery bypass grafting surgery.
- Mitral repair surgery.
- Aorta pathology: aortic root surgery, aortic arch surgery (hybrid techniques).
- Follow-up of sutureless aortic valve prosthesis: Perceval S.
- Follow-up of surgical checklist implementation.
- Risk scores.
- Cardiac protection: Del Nido cardioplegia.
- Mini-invasive techniques: mini-sternotomy, mini-thoracotomy, MIDCABG surgery.
- Total arterial graft revascularisation.
- New valvular transcatheter prosthesis: TAVI transaxillary approach (Portico), TAVI transapical approach (Accurate).
- Aortic valve repair.

SCIENTIFIC CHALLENGES

- Consolidation as a research group in different cardiac surgery-related fields, specific sutureless valve prosthesis, radial artery in myocardial revascularisation, Different TAVI approaches...
- Participation in the assessment and validation of new products employed in cardiac surgery: haemostatics, sutures...
- Collaboration with different national and international research teams involved in our lines of study: epicardic fat study

(Endocrinology), calcium channels in auricular myocytes (ICCV).

SCIENTIFIC PRODUCTION

- Aceituno C, Revuelta D, Jiménez V, Ginel A, Molina CE, Hove L. Impact of Overnight Storage of Human Atrial Myocytes on Intracellular Calcium Homeostasis and Electrophysiological Utility. *Biomolecules*. 2024; 14(11):1415. DOI:10.3390/biom14111415. PMID:39595591. IF:4,800 (Q1/3D). Document type: Article.
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- Ballester C, Cañes L, Alonso J, Puertas L, Vázquez P, Taurón M, Roselló E, Marín F, Rodríguez C, Martínez J. Upregulation of NOR-1 in calcified human vascular tissues: impact on osteogenic differentiation and calcification. *Translational Research*. 2024; 264DOI:10.1016/j.trsl.2023.09.004. PMID:37690706. IF:6,400 (Q1/1D). Document type: Article.
- Moliner C, Calvo M, Solé E, Martín AB, Fluvià P, Sánchez J, Vime J, Vallverdu MF, Ferrer MT, Tobias PE, Mancera JCD, Vilardell P, Vila R, Díez C, Bayés A, Aizpurua DA, Ferreira I, Pérez SM. Revascularization and outcomes in ischaemic left ventricular dysfunction after heart failure admission: The RevascHeart study. *EUROPEAN JOURNAL OF HEART FAILURE*. 2024; DOI:10.1002/ehhf.3463. PMID:39359034. IF:16,900 (Q1/1D). Document type: Article.
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- Soriano M, Sionis A, Rodríguez E, Bonet A, Soto L, Tauron M, Belmar D, Arakama S, Mayol J, Rodríguez L. Amiodarone triggered Kounis syndrome complicated by refractory cardiac arrest rescued with VA-ECMO. *Clinical Case Reports*. 2024; 12(5):e8712. DOI:10.1002/ccr3.8712. PMID:38765612. Document type: Article.