

Cardiac Surgery

Group leader

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Researchers

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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 revascularization.
- 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 revascularization, Different TAVI approach.
- 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: epicardial fat study (Endocrinology), calcium channels in auricular myocytes (ICCV).



5.1.6 Associated Groups

SCIENTIFIC PRODUCTION

- Ballester C, Alonso J, Cañes L, Vázquez P, Puertas L, Fernández A, Taurón M, Rodríguez A, López N, Rodríguez C, Martínez J. Lysyl oxidase-dependent extracellular matrix crosslinking modulates calcification in atherosclerosis and aortic valve disease. *BIOMEDICINE & PHARMACOTHERAPY*. 2023; 167:115469. DOI:10.1016/j.biopha.2023.115469. PMID:37729730. IF:7,500 (Q1/1D). Document type: Article.
- Corominas L, Tauron M, Molina M, Tabilo JF, Leta R, Ginel A. Isolated congenital mitral leaflet perforation in a young adult: A case report. *Cirugia Cardiovascular*. 2023; 30(1)DOI:10.1016/j.circv.2022.06.010. Document type: Article.
- Godoy H, Jimenez V, Tarifa C, Ginel A, Dos JL, Bentzen BH, Hove L, Ciruela F. Increased Density of Endogenous Adenosine A(2A) Receptors in Atrial Fibrillation: From Cellular and Porcine Models to Human Patients. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. 2023; 24(4):3668. DOI:10.3390/ijms24043668. PMID:36835078. IF:5,600 (Q1/3D). Document type: Article.
- Jimenez V, Casabella S, Llach A, Gich I, Casellas S, Ciruela F, Chen SRW, Guerra JM, Ginel A, Benitez R, Cinca J, Tarifa C, Hove L. Beta-blocker treatment of patients with atrial fibrillation attenuates spontaneous calcium release-induced electrical activity. *BIOMEDICINE & PHARMACOTHERAPY*. 2023; 158:114169. DOI:10.1016/j.biopha.2022.114169. PMID:36592495. IF:7,500 (Q1/1D). Document type: Article.
- Rodríguez A, Tello C, Vergara AC, Fernández C, Moustafa AH, Pinilla CA, Ginel A, Barros AJ, Dilme JF. Case Report: Kommerell's diverticulum and left aberrant subclavian artery stenosis hybrid treatment with branched aortic stent-graft. *Frontiers in Cardiovascular Medicine*. 2023; 10:1309839. DOI:10.3389/fcvm.2023.1309839. PMID:38155991. IF:3,600 (Q2/5D). Document type: Article.
- Rufa M, Ursulescu A, Baumann P, Ferrer MT. A prospective, international, bicentric study to evaluate PremiCron suture material for cardiac valve surgery - PREMIVALVE a cohort study. *Annals Of Medicine And Surgery*. 2023; 85(4)DOI:10.1097/MS9.0000000000000442. PMID:37113912. Document type: Article.
- Tarifa C, Jimenez V, Franco R, Montiel J, Guerra J, Ciruela F, Hove L. Expression and Impact of Adenosine A(3) Receptors on Calcium Homeostasis in Human Right Atrium. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. 2023; 24(5):4404. DOI:10.3390/ijms24054404. PMID:36901835. IF:5,600 (Q1/3D). Document type: Article.
- Tarifa C, Vallmitjana A, Jiménez V, Marchena M, Llach A, Herraiz A, Godoy H, Nolla C, Ginel A, Viñolas X, Montiel J, Ciruela F, Echebarria B, Benítez R, Cinca J, Hove L. Spatial Distribution of Calcium Sparks Determines Their Ability to Induce Afterdepolarizations in Human Atrial Myocytes. *Jacc-Basic To Translational Science*. 2023; 8(1) DOI:10.1016/j.jacbts.2022.07.013. PMID:36777175. IF:9,700 (Q1/1D). Document type: Article.