

Clinical Research in Transfusion Medicine

Group leader

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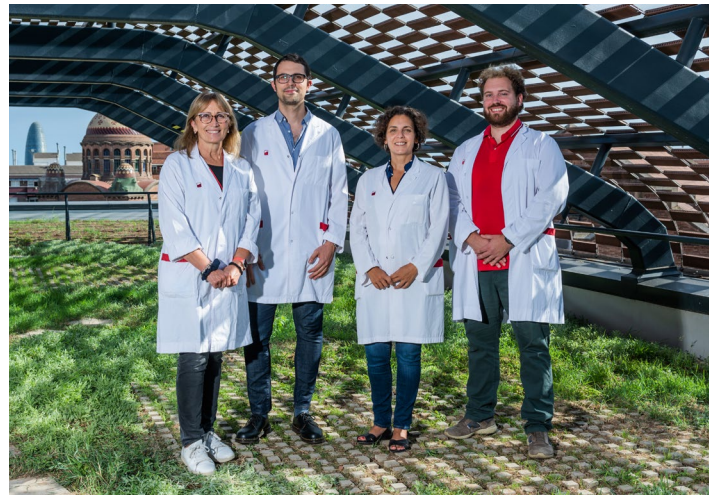
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DESCRIPTION

This group has moved to the Onco-Hematologic Diseases Area because of our sense of belonging and daily clinical work, procedures and projects.

Key highlights are directed towards developing strategies to assess and improve Patient Blood Management, encourage novel Cellular Therapy projects like CAR-T lines, and approach collaborations with other departments or research groups in therapeutic apheresis issues.

Our knowledge dissemination spirit has been shown throughout an increasingly active participation at the Transfusion Hospital Commission, communications to congresses, and accredited courses.

MAIN LINES OF RESEARCH

The objectives of this group will focus on the following fields of study:

- Coagulation disorders and bleeding, especially those involving platelets and coagulation factors.
- Blood transfusion and haemovigilance.
- Good use and efficiency of blood components: patient blood management, product quality, patient safety, etc.
- Therapeutic apheresis: replacement of blood components, extracorporeal photopheresis, and therapeutic cytopheresis.

SCIENTIFIC CHALLENGES

Among the challenges and study proposals planned for the achievement of the objectives, it is worth noting:



05.1.2 Oncohematologic Diseases Area

- Cooperation with other groups within the framework of transfusion and cell therapy research, such as the CAR-T group (Dr. Javier Briones).
 - Progress as a productive group of translational research in the fields of blood transfusion and cell therapy, it is intended to be carried out by analyzing the impact of therapeutic plasma exchange in autoimmune diseases of the neurology service (Dr. Luis Querol).
 - Analyzing the effective use of blood transfusion and the main causes of its variability, is done with the collaboration of the massive transfusion subcommittee (Dr. Pilar Paniagua).
 - Recent enrollment from members of the group in research training projects such as master's or doctoral thesis, will also have a positive result in our research group, encouraging us to achieve new goals and generate scientific impact with them.
- PMID:37986640. IF:2,700 (Q3/7D). Document type: Article.
- Pascual C, Salmeron PP, Ruiz FT, Ferreiras DV, Hernandez SJ, Argente RS, Galan CD, Comos JD. Immune thrombotic thrombocytopenic purpura: clinical suspicion and basic management in emergency departments - an expert review and consensus statement from the Spanish societies of hematology and hemotherapy (SEHH) and emergency medicine (SEMES). *Emergencias*. 2023; 35(1)PMID:36756916. IF:5,500 (Q1/2D). Document type: Review.
 - Regalado I, García M, Medina L, Fernández J, Esquirol A, García I, Martino R, Briones J, Sierra J, Novelli S. Age, CD34+cell dose, conditioning, and pre-transplant cytopenias can help predict transfusion support in lymphoma patients undergoing autologous stem cell transplantation. *VOX SANGUINIS*. 2023; 118(8)DOI:10.1111/vox.13486. PMID:37356813. IF:2,700 (Q3/7D). Document type: Article.

DOCTORAL THESES DEFENDED

- Medina Marrero, Laura. Proposal for a new consensus on the administration of Plerixafor, to decrease the percentage of failures of mobilization of hematopoietic progenitors. 12/06/2023. Universitat Autònoma de Barcelona. Supervisors: Querol Giner, Sergi; Sierra Gil, Jordi.

SCIENTIFIC PRODUCTION

- Fernández J, Delgadillo J, Vives J, Rodríguez L, Mendoza A, Azqueta C, García A, Valdivia E, Martorell L, Rubio N, Linares M, Alonso S, Ancochea A, Garcfa E, García N, Medina L, Querol S. A hub-and-spoke model to deliver effective access to chimeric antigen receptor T-cell therapy in a public health network: the Catalan Blood and Tissue Bank experience. *CYTOTHERAPY*. 2023; 25(1) DOI:10.1016/j.jcyt.2022.07.011. PMID:36041984. IF:4,500 (Q2/3D). Document type: Article.
- Martínez IR, Avendaño C, Da CV, Llobet AB, Erce J, Fraile M, Domínguez LG, Andrés IV, Velasco JA, Rodríguez VPG, Contreras E, Uranga SU, Herraiz A, Jimenez T, Pérez A, Rodríguez J, Pérez M, Ramos A, Velasco A, Cabrera JLB, Duarte RF. Factors related to the development of high antibody titres against SARS-CoV-2 in convalescent plasma donors from the ConPlas-19 trial. *VOX SANGUINIS*. 2023; 119(1)DOI:10.1111/vox.13561.