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5.1.5 Translational Medicine Area

Advanced Medical Imaging, Artificial Intelligence, and **Imaging-Guided Therapy**

Group leader

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MAIN LINES OF RESEARCH

- · Artificial Intelligence.
- Quantitative Medical Imaging Advances and Radiomics.
- Innovative Imaging Technologies.
- Image-Guided Therapy 3D Imaging and Surgical Planning.
- Design and Testing of Medical Devices.

SCIENTIFIC CHALLENGES

- Increasing knowledge in the implementation of digital technologies in healthcare through the design and testing of tools supporting clinical and radiological decision-making, based on Artificial Intelligence and Robotics.
- Promoting the development and use of advanced biomarkers in medical imaging, including new acquisition methods, techniques, or procedures, especially quantitative and omics biomarkers.
- Encouraging the use of advanced imaging technologies and 3D printing for the enhancement of educational resources and clinical-surgical planning.
- Enhancing participation in national and international research networks focused on diagnostic imaging, as well as fostering collaboration in multidisciplinary research teams.

DOCTORAL THESES DEFENDED

· Guisado-Alonso, Daniel. Estratègies per optimitzar el tractament endovascular en l'ictus agut: anàlisi dels criteris de selecció i de la relació



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5.1.5 Translational Medicine Area

entre la circulació col·lateral i la pressió arterial. 28/04/2023. Universitat Autònoma de Barcelona. Supervisors: Martí Fàbregas, Joan; Delgado Mederos, Raquel; Granell Moreno, Esther. http:// hdl.handle.net/10803/690489.

