



DR. SÁNCHEZ MARGALLO

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SÁNCHEZ MARGALLO, Francisco Miguel

Dr. Sánchez is the **Scientific Director** at the Jesús Usón Minimally Invasive Surgery Centre (JUMISC) located in Cáceres, Spain.

The JUMISC is a multidisciplinary institution delivering excellence in research and training of minimally invasive surgical techniques. It promotes technological development and innovation applied to medicine and health, in close collaboration with companies around the world. Project Manager for minimally invasive techniques with particular responsibility regarding biomaterials, medical devices, new techniques, preclinical trials and imaging diagnosis in laparoscopic, endoscopic and other minimally invasive procedures and surgical technologies.

EDUCATION and TRAINING

1992 University of Extremadura. Degree in Veterinary Medicine.

1992 University of Extremadura. Chair of Surgery. Resident.

1994 University of Extremadura. FPI Scholarship. Chair of Surgery.

1999 University of Extremadura. PhD. (National Prize 2001)

1999 Official College of Technical Architects and Surveyors (Málaga). Master's Degree in Consultancy and Environmental Verification.

2000 East Carolina University. Postgraduate stay in the Telemedicine Center of the Brody School of Medicine. North Carolina University. USA.

PROFESSIONAL CERTIFICATIONS

1992-1997 Minimally Invasive Surgery Centre. Coordinator of the Endoscopy Unit.

1997-2007 Minimally Invasive Surgery Centre. Director of the Surgical Area and Coordinator of the Laparoscopy Unit.

2000 - Director of the Quality Assurance System (ISO 9001:2008).

2007- Director of the Contract Research Laboratory –CRO- (under GLP certification) for preclinical trials.

2014- Director of the Centre affiliated to the University of Extremadura (Fundación Centro de Cirugía de Mínima Invasión Jesús Usón).

2014- Director of the Singular Spanish Scientific and Technological Infrastructure (ICTS -Nanbiosis-).

CURRENT RESEARCH PROJECTS

- New approaches to MIS: NOTES and Laparoendoscopic Single-site Surgery (LESS)
- New devices for Minimally Invasive Surgery
- Minimally Invasive Surgical pedagogical model based on video Technology Enhanced Learning
- Online vocational Training on laparoscopy's ergonomics for surgeons and laparoscopic instruments' designers
- Testing validation of innovative surgical training concepts
- New osteoinductive biomaterials for bone regeneration
- Evaluation of bioactive dressing for treating skin ulcers
- Immunomodulatory Role of Exosomes Secreted From hASCs: An in vitro Analysis
- Development of new technologies to improve embryo implantation in IVF
- Physicochemical characterization in vivo of the oviductal environment by minimally invasive approaches
- Cardiovascular research (stem cell therapy and MIS in cardiovascular diseases)

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- System for improving the diagnosis and monitoring of neuropathic pain in patients with spinal cord injury: biometric records, questionnaires of pain and validation techniques
- e-Learning serious game for surgical skills training
- MIS in uterine transplantation
- Participation in more than 80 research projects financed by public and private entities.

TRAINING and EDUCATION ACTIVITIES

- **Director** and **lecturer** of more than 600 Hands-on Courses on Minimally Invasive Techniques (www.ccmijesususon.com/training)
- **Director of certified EAES Courses** on Laparoscopic Colorectal Surgery and Laparoscopic ERGE Surgery
- **Director of two University Masters** on Minimally Invasive Surgery (University of Extremadura)
- **Director of University Specialist Courses** on Minimally Invasive Surgery (University of Extremadura)
- **Lecturer of University Masters** (Universidad Complutense of Madrid - *Gynecology and Bioengineering*-, Universidad of Murcia -*Biology of Reproduction*-)
- **Director of the Centre affiliated to the University of Extremadura** (Fundación Centro de Cirugía de Mínima Invasión Jesús Usón)

PUBLICATIONS and SCIENTIFIC COMMUNICATIONS

- Author of 120 scientific articles published in journals with Impact Factor, and more than 160 articles related to Minimally Invasive Surgery (h index: 15)(References: 960)
- Author and co-author of 19 books, author and co-author of 55 chapters of books
- Author and co-author of 20 copyrights
- Author of 11 Utility Models, 10 Patents and 10 Community Industrial Designs
- Author of more than 290 scientific posters, more than 500 invited communications and free communications presented at National and International Congresses, 74 scientific videos and 13 interactive CD and DVD
- Author of 10 App related to Minimally Invasive Surgery and Health (for IOS and Android)

MEMBERSHIPS and AFFILIATIONS

- Member of the **Technological Committee** of the European Association of Endoscopic Surgeons (EAES)
- Member of numerous **International Scientific Committees** such as the First Medical Engineering Meeting, I Symposium of Cell Therapy and Regenerative Medicine, I Iberian International Course on Laparoscopic and Thoracoscopic Surgery, Conference of the Society for Medical Innovation and Technology (SMIT) 2012, 3rd International Symposium on Minimally Invasive Surgery in Veterinary and MEDICON 2013
- Member of the **National Scientific Committee** of the 1st, 2nd, 3rd and 4th Symposiums on Training Upgrading in Laparoscopic and Robotic surgery, across a multidisciplinary scope SECLA 2012-2013-2014-2015

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- Member of **CEBA (Spanish National Animal Welfare and Ethics Committee)** at the JUMISC
- Member of the **Expert Committee of the Health Plan for Extremadura**. Regional Autonomous Government of Extremadura.
- **Lecturer** on **Official University Masters** on Biology and Technology of the Reproduction of Murcia University, on Endoscopic Gynecology Surgery of the Autonomous University of Madrid and on Telemedicine and Bioengineering of the Polytechnics University of Madrid.
- Member of the **Honor Committee** of the VII National Congress on Informatics and Pharmacy and the XVIII National Congress of Blood Donors
- **Honorary Member** of the Sociedade Portuguesa de Cirurgia Minimamente Invasiva (2008)
- Full Membership of the Society for Medical Innovation and Technology (**SMIT**), of the European Association for Endoscopic Surgery and other interventional techniques (**EAES**), of the Spanish Urology Association (**AEU**) Spanish Society of Surgeons (**AEC**), Spanish Society of Surgical Research (**SEIQ**) and of the Spanish Society of Laparoscopic and Robotic Surgery (**SECLA**)
- Member of the **Board of Directors** of the Spanish Association for Surgical Research (SEIQ)
- Member of the **Scientific Committee** of the Spanish Society of Simulation and Patient Safety (SESSEP)

AWARDS AND HONORS

- **28 national and international prizes** related to research. Prize of the Royal Academy of Spanish Doctors (2001)
- **President** of the Organizing Committee of the XXIX Annual Congress of the Spanish Society of Biomedical Engineering. CASEIB2011
- **Reviewer** for **scientific international journals**:
 - Surgical Endoscopy
 - PLOS ONE
 - Catheterization and Cardiovascular Interventions
 - Open Access Surgery Journal
 - Research in Veterinary Science
 - Journal of Minimal Access Surgery
 - American Journal of Veterinary Research
 - Archives of Clinical and Experimental Surgery (ACES)
 - Hindawi Publishing Corporation
 - Contrast Media and Molecular Imaging
 - Journal of the American Veterinary Medical Association (JAVMA)
- Reviewer for **International Conferences**: the International Conference on Information and Communication Technologies and Applications and the International Conference on Complexity, Cybernetics, and Informing Science and Engineering
- **Member of the International Advisory Board** of ScopeMed and of the **Editorial Board** of ISRN Minimally Invasive Surgery, Science and Education Publishing (SciEP), Edorium Journal of Robotic Surgery and of Archives of Clinical and Experimental Surgery
- **Contributor** to Research Networks and Platforms:

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- Cross-border network Extremadura Centro Alentejo (**RITECA**)
- Managing bodies of Hospital and Biosanitary Clinical Research spanish network (**REGIC**)
- Plataform of **Biotechnological Markets**
- European and Spanish Plataform on Biomedical and Nanomedicine Research (**NANOTECHNOLOGY & NANOMED**)
- Spanish Technological Plataforms for **Animal Healthcare (Vet+i)**, for Integrated Intelligence Systems (**PROMETEO-ARTEMIS**) and robotics (**HISPAROB**)
- Platform **ITEMAS**, for **Innovation on Healthcare and Medical Innovation** of the ISCIII
- **Spanish Network for Cardiovascular Research (RIC)**
- Centre for Biomedical Cooperative Research: Bioengineering, Biomaterials and Nanomedicine (**CIBER-BBN**)
- Spanish Technological Plataform on Advanced Materials and Nanomaterials (**MATERPLAT**)

POSTGRADUATE COURSES AND THESIS

- **Director** of 21 **Doctoral Thesis** and 470 **postgraduate courses**
- **University Expert tutor** and **Director** of 6 **Master's Degrees**