Animal models of cardiovascular pathology.

NOMBRE DE LA TECNOLOGÍA/SERVICIO OFERTADA/O

Animal models of cardiovascular pathology

DESCRIPCIÓN Y CARACTERÍSTICAS FUNDAMENTALES DE LA TECNOLOGÍA/SERVICIO

Our laboratory is focused in the study of atherothrombotic and cardiac diseases including atherosclerosis, vascular hypertension, abdominal aortic aneurysms, and acute myocardial infarction. In order to translate our research to the patient, our studies are based on animal models for each pathology to mimmick as much as possible the pattern of disease.

ASPECTOS INNOVADORES DE LA TECNOLOGÍA/ SERVICIO

To better understand the molecular pathways involved in the onset and progression of the diseases meantioned above, we perform our investigation in vivo, evaluating the contribution of specific pathways by using animals knockout or knockin for the selected genes.

VENTAJAS COMPETITIVAS/TÉCNICAS DE LA TECNOLOGÍA/SERVICIO

The main advantage of this approach is a better translation to humans the scientific results generated as result of doing in vivo studies of disease.

PALABRAS CLAVE DE LA TECNOLOGÍA/SERVICIO

In vivo surgery procedures, atherosclerosis, acute myocardial infartion, aneurysms, cardiovascular disease, neointimal formation, restenosis, angioplasty, nitric oxide, matrix metalloproteinases

EXPERIENCIA RELEVANTE

Dr. Carlos Zaragoza is staff scientist at the Spanish National Centre for Cardiovascular Research (CNIC), and associate professor in the department of Physiology, at the School of Medicine, University Francisco de Vitoria, Madrid. Since 1996 as investigator of Cardiology at the Johns Hopkins School of Medicine, his research is focused in understanding the signaling mechanisms leading to cardiovascular remodeling associated to different cardiovascular pathologies. Dr. Zaragoza is author of more than 40 research papers, 5 book chapters, and reviews in topics related to cardiovascular research. He is currently, peer-reviewer member of several journals in the field (ATVB, Circulation, Circulation Research, Plos ONE, etc), and associate editor of ISRN Vascular Medicine. Dr. Zaragoza is evaluation committee member of the Ministries of Science and Health of Spain. He is leading five National Research Grant Projects, and participates on 7th Frame Work EU funded projects, related with biomedical imaging.

ÁREA TECNOLÓGICA

Sanidad y biomedical translational research.

DESTINATARIOS DE LA TECNOLOGÍA/SERVICIO OFERTADA/O

Laboratories involved in cardiovascular translational research.

Contacto comercial:

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