

Genomics of Complex Diseases



Coordinator

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Members

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Soto Carricas, Begoña (FGS)
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Main Lines of Research

Angiology and Vascular Biology

- ▶ TAGA Project: Genomic basis of Abdominal Aortic Aneurysm.

Thrombosis and Thrombosis and Cancer

- ▶ GAIT Project: Genetic Analysis of Idiopathic Thrombophilia.
- ▶ RETROVE Project: Risk of Venous Thromboembolic Disease.
- ▶ OncoThromb Project: New biomarkers related with Thrombosis and Cancer.
- ▶ AIRTOP and MIRTO Projects: Assessment of the Individual Risk of Thrombosis in Oncology Patients.

Thrombosis and COVID-19

- ▶ PRECIS_COVID-19 Project
- ▶ SCOURGE_COVID-19 Consortium

- ▶ EASI_Genomics Consortium
- ▶ Host Genetic Initiative HG_Consortium

Genomics in Sport Medicine

- ▶ MMIT Project (Health in sport and its limits): Marathons and Ultra-trail races. Biological, genetic and clinical impact.
- ▶ SHERPA_Everest Project. Exposition to extreme environmental hypoxia and its effect on the inflammatory and cardiopulmonary response: Biological, genetic and clinical impact.
- ▶ Xtreme-Genetics K2 project. Expedition to K2 peak. Biological, genetic and clinical impact.

Interdisciplinary Research Areas

- ▶ Bioinformatics (Data Science)
- ▶ Personalized Medicine

Scientific Challenges

- ▶ Analysis of Omics data (Genomics, transcriptomics, epigenomics) in the field of complex diseases with a translational approach in cooperation with clinical groups.
- ▶ Identify new biomarkers (genetic, epigenetic and/or plasmatic) that determine susceptibility to complex diseases.
- ▶ Identify new mechanisms involved in the development and progression of complex diseases.
- ▶ Development of predictive algorithms that integrate the genetic, biological and clinical information of the patients (Personalized Medicine).

Collaborations

Collaborations with other IIB Sant Pau Groups

- ▶ Thrombosis and Haemostasis, Dr. J.C. Souto: GAIT, MIRTO, RETROVE Projects.
- ▶ Stroke Pharmacogenomics and Genetics, IR Sant Pau. "Effect of coagulation on recovery after stroke". Project. Dr. Israel Fernández Cadenas
- ▶ Neurology, Dr. J. Martí: MIRTO Project. Elena Jiménez: Lipoproteic biomarkers. ICTUS.
- ▶ Clinical Hematology, Dr. J. Sierra: MIRTO Project.
- ▶ Otorhinolaryngology. Dr. M Quer and Dr. X Leon. Prediction of response to head and neck cancer.
- ▶ Regulatory Mechanisms of Cardiovascular Remodeling. Dra. C Rodríguez. and Dra. Maria Galán
- ▶ Participation in CIBERCV, CIBER de Enfermedades Cardiovasculares. Dr. J González
- ▶ General and Digestive Surgery. Dra C. Balaguer.

- ▶ Clinical Pharmacology, Dra. M.A. Mangues, Mar Gomis: Cancer and Thrombosis Projects.

External Collaborations

- ▶ Clinical Oncology Department, Hospital Gregorio Marañón, Madrid. Dr. A. Muñoz: ONCOTROMB, AIRTOP Projects.
- ▶ Clinical Department of Hematology and Hemostasis. University of Wien, Austria. Dra. Ingrid Pabinger. ONCOTROMB, MIRTO Projects.
- ▶ Jochen Schwenk, SciLifeLab, Sweden: GAIT Project.
- ▶ Department of Genetics, University of Genève, Switzerland, Dr. M. Dermitzakis and Dr. Ana Viñuela: GAIT Project.
- ▶ Institute of Biological Psychiatry, Sankt Hans Hospital. Roskilde, Denmark, Dr. A. Buil: Bioinformatics of Complex diseases, GAIT Project.
- ▶ INSERM UMR_S1219 - Bordeaux Public Health Center. Bordeaux, France. Dr. D.A. Tregouet: GAIT, VEREMA Projects.

- ▶ Laboratory Haematology, Hospital Timone Marseille, France, Dr. P. Morange: GAIT, VEREMA Projects.
- ▶ Haematology Department, Karolinska Hospital, Sweden, Dr. J. Odeberg: VEREMA Project.
- ▶ Hospital Clínic de Barcelona. Neumology Service. Dr. O. Sibila. SUMMIT and SHERPA Projects
- ▶ Hospital Clínic de Barcelona, Otorhinolaryngology service. Dr. Francesc Xavier Avilés-Jurado
- ▶ Hospital Vall d'Hebron. Barcelona. Vascular Surgery Service. Dr. S. Bellmunt.
- ▶ Unit of Biophysics. Dpt of Biochemistry and Molecular Biology. Faculty of Medicine, UAB. Dr. Ramón Barnadas Rodríguez.
- ▶ Banc de Sang i Teixits (BST). Dr. F. Vidal.
- ▶ Centre de Recerca en Enginyeria Biomèdica, Universitat Politècnica de Catalunya, Barcelona, Dr. A. Perera: SUMMIT Project.
- ▶ CAR, Centre d'Alt Rendiment, Sant Cugat. Dr. Franchek Drobnic: Sport Medicine Projects.
- ▶ CEGEN. Dr. Ángel Carracedo, Dra. Inés Quintela. SCOURGE COVID-19 Project
- ▶ CNAG. Dr. Ivo Gut. EASI COVID-19 Project
- ▶ National Institute of Bioinformatics. ISCIII. Madrid. Dr. Francisco Valencia
- ▶ Stanford University, School of Medicine. California. USA. HLA_COVID-19 Project
- ▶ Paul de Vries, Nicholas L Smith. Working Haemostasis Group in The Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium (US).
- ▶ Genetics Consortia GIANT: Global Lipids (GLGC) and AAAGEN.
- ▶ INVENT consortium of Venous Thrombosis. Nicholas L Smith, David Tregouet
- ▶ Dr. Sergi Bellmunt (Hospital Vall d'Hebron) and Dra. Laura Calsina (Hospital del Mar). Novel omics approach to predict abdominal aortic aneurysm growth and rupture (OMIC-AAA) Project.
- ▶ Dr. Rebecka Hultgren (KI), and Dr. Lars Maegdefessel (TUM), Karolinska Institutet, Stockholm and Technical University of Munich in the IDEA Project: Improving Diagnostic Efficiency in AAA Patients.
- ▶ Leo-Pharma Company. Prediction of Thrombosis Risk in cancer patients.
- ▶ GenIncCode Company. Development of Genetic Diagnostics in Thrombosis.

Active Grants

- ▶ Alba Rodríguez Rius. Identificación de Mecanismos de Regulación de la Expresión Génica (microRNAs) en la Enfermedad Tromboembólica Venosa. 2017 FI_B 00673. Agència de Gestió d'Ajuts Universitaris i de Recerca. Duration: 2017-2020. 68,913.59 €.
- ▶ José Manuel Soria Fernández. Validación del Proyecto MIRTO (Modeling the Individual Risk of Thrombosis in Oncology). PI17/00059. Instituto de Salud Carlos III. Duration: 2018-2021. 112,000 €.
- ▶ Maria Sabater Lleal. Identification of novel biomarkers and genetic pathways involved in Abdominal Aortic Aneurysm. CP17/00142(P). Instituto de Salud Carlos III. Duration: 2018-2021. 99,000 €.
- ▶ Maria Sabater Lleal. Contratos de investigadores Miguel Servet tipo I 2017. CP17/00142. Instituto de Salud Carlos III. Duration: 2018-2023. 202,500 €.
- ▶ María Mercedes Camacho Pérez de Madrid. Laboratorio de Angiología, Biología Vascular e Inflamación. 2017 SGR 01243. Agència de Gestió d'Ajuts Universitaris i de Recerca. Duration: 2017-2021.
- ▶ José Manuel Soria Fernández. Unitat de Genòmica de Malalties Complexes. 2017 SGR 01736. Agència de Gestió d'Ajuts Universitaris i de Recerca. Duration: 2017-2021.
- ▶ Josep Maria Romero Carro. Bases Genéticas de la Insuficiencia Venosa Crónica y su implicación en la Enfermedad Tromboembólica. FMM 2018. Fundación Mutua Madrileña. Duration: 2018-2020. 57,142.86 €.
- ▶ Maria Sabater Lleal. Population genomic variation, functional biology and the risk of venous thrombosis. HL134894. National Institute of Health (NIH). Duration: 2018-2021. 56,503.06 €.
- ▶ José Manuel Soria. KIR_HLA SARS-CoV-2_INM. HLA COVID-19 Consortium. Stanford University, School of Medicine (USA). Duration: 2020-2021. 18,835 \$.
- ▶ José Manuel Soria. European Advanced infrastructure for Innovative Genomics (EASI_Genomics) Consortium. Risk Prediction of Sepsis-Induced Coagulopathy in COVID-19 patients. H2020_EU. No 824110. EASI_19_P1012558. Duration: 2020-2021. 9,991,267 €.
- ▶ Mercedes Camacho. Biomarcadors lipoproteics per determinar la inflamació de la placa carotídia en l'ictus isquèmic. Fundació La Marató de TV3 201716. Duration: 2018-2020. 197,575 €.
- ▶ Mercedes Camacho. Nuevas estrategias terapéuticas en el manejo de la enfermedad arterial periférica y el aneurisma de aorta abdominal. PI18/00919 Instituto de Salud Carlos III. Duration: 2019-2021. 183,920 €.

Note: Total amount granted to PI. It does not include indirect costs.

Grants Awarded in 2020

- ▶ Maria Sabater Lleal. Nuevo enfoque ómico para predecir el crecimiento y la rotura del aneurisma aórtico abdominal. PID2019-109844RB-I00. Ministerio de Ciencia, Innovación y Universidades. Duration: 2020-2023. 110,000 €.
- ▶ José Manuel Soria Fernández, Un enfoque genómico de e-Health en la trombosis asociada al cáncer (Proyecto ONCOTHROMB_2). PI20/00325, Instituto de Salud Carlos III. Duration: 2021-2023. 132,000 €.
- ▶ José Manuel Soria. Programa de Medicina de Precisión (IMPACT). Data Science IMP/00019. ISCIII. Duration: 2021-2023. 4,549,380 €.
- ▶ Mercedes Camacho. Quantification of the interaction of mixed vesicles of phospholipids and a single chain metallosurfactant (with CO releasing properties) with cell cultures. CELLS - ALBA Synchrotron 2020074409. Duration: 2021.

Note: Total amount granted to PI. It does not include indirect costs.

Doctoral Theses

- ▶ Alba Rodríguez Rius. Estudio de los mecanismos de regulación génica (micro-RNAs) en la Enfermedad Tromboembólica Venosa. Universitat de Barcelona. Director: Soria Fernández, José Manuel. Date of defense: 30/10/2020.
- ▶ Efrén González Jabalera. Aplicación clínica de la angiografía de perfusión en la revascularización de la arteriopatía ocluyente. Universitat Autònoma de Barcelona. Director: Dilmé Muñoz, Jaume. Date of defense: 27/10/2020.
- ▶ Teresa Gallastegui Mozos. Expresión del CD146 en el AAA e identificación de su forma circulante como biomarcador diagnóstico de la enfermedad. Universitat Autònoma de Barcelona. Director: Camacho Pérez de Madrid, Mercedes. Date of defense: 27/11/2020.

Patents

- ▶ José Manuel Soria Fernández, Alba Rodríguez Rius, Juan Carlos Souto Andrés. MicroRNAs Markers of Thrombosis Conditions. EP20382151.7. European (UE). 02/03/2020.

Transfer Products

- ▶ José Manuel Soria (Co-founder y Chief Scientific Officer). Exheus (Expression in Health for Us). Programa ACCLó. Generalitat de Catalunya (ACE015/20/00034: (Exheus). 2020.

Scientific Production

Total Impact Factor: 171.521 · Mean Impact Factor: 11.435

Bennett J.A., Mastrangelo M.A., Ture S.K., Smith C.O., Loelius S.G., Berg R.A., Shi X., Burke R.M., Spinelli S.L., Cameron S.J., Carey T.E., Brookes P.S., Gerszten R.E., Sabater-Lleal M., de Vries P.S., Huffman J.E., Smith N.L., Morrell C.N., Lowenstein C.J., The choline transporter Slc44a2 controls platelet activation and thrombosis by regulating mitochondrial function (2020) NAT COMMUN, 11 (1). **IF: 12.1210**

Fité J, Gimenez E, Soto B, Artigas V, Escudero JR, Bellmunt S, et al. Systematic review on abdominal aortic aneurysm screening cost-efficiency and methodological quality assessment. INT ANGIOL 2020;39:000-000. DOI: 10.23736/50392-9590.20.04547-2. PMID: 33086780. **IF: 2.080**

Georgakis MK, Malik R, Gill D, Franceschini N, Sudlow CLM, Dichgans M; INVENT Consortium, CHARGE Inflammation Working Group. Interleukin-6 Signaling Effects on Ischemic Stroke and Other Cardiovascular Outcomes: A Mendelian Randomization Study. CIRC GENOM PRECIS MED. 2020 Jun;13(3):e002872. DOI: 10.1161/CIRCGEN.119.002872. Epub 2020 May 12. PMID: 32397738; PMCID: PMC7299212. **IF: 4.063**

Goumidi L, Thibord F, Wiggins KL, Li-Gao R, Brown MR, van Hylckama Vlieg A, Souto JC, Soria JM, Ibrahim-Kosta M, Saut N, Daian-Bacq D, Olaso R, Amouyel P, Debette S, Boland A, Bailly P, Morrison A, Mook-Kanamori DO, Deleuze JF, Johnson AD, de Vries PS, Sabater-Lleal M, Chiaroni J, Smith NL, Rosendaal FR, Chasman DI, Tregouet D, Morange PE. Association of ABO haplotypes with the risk of venous thrombosis: impact on disease risks estimation. BLOOD. 2020 Dec 22:blood.2020008997. DOI: 10.1182/blood.2020008997. Epub ahead of print. PMID: 33512453. **IF: 17.794**

Kim-Hellmuth S, Aguet F, Oliva M, Muñoz-Aguirre M, Kasela S, Wucher V, Castel S, Hamel A, Viñuela A, Roberts A, Mangul A, Wen X, Wang G, Barbeira A, Garrido-Martín D, Nadel B, Zou Y, Bonazzola R, Quan J, Brown A, Martínez-Pérez A, Soria JM, Getz G, Dermizakis E, Small S, Stephens M, Xi H, Kyung Im H, Guigó R, Segrè A, Stranger B, Ardlie K, Lappalainen T. Cell type specific genetic regulation of gene expression across human tissues. SCIENCE 2020 Sep 11;369(6509):eaaz8528. DOI: 10.1126/science.aaz8528. PMID: 32913075. **IF: 41.846**

Méndez-Lara KA, Letelier N, Farré N, Diarte-Añazco EMG, Nieto-Nicolau N, Rodríguez-Millán E, Santos D, Pallarès V, Escolà-Gil JC, Vázquez Del Olmo T, Lerma E, Camacho M, Casaroli-Marano RP, Valledor AF, Blanco-Vaca F, Julve J. Nicotinamide Prevents Apolipoprotein B-Containing Lipoprotein Oxidation, Inflammation and Atherosclerosis in Apolipoprotein E-Deficient Mice. ANTIOXIDANTS (BASEL). 2020 Nov 21;9(11):1162. DOI: 10.3390/antiox9111162. PMID: 33233455; PMCID: PMC7700561. **IF: 5.014**

Navas-Madroñal M, Castelblanco E, Camacho M, Consegal M, Ramirez-Morros A, Sarrias MR, Perez P, Alonso N, Galán M, Mauricio D. Role of the Scavenger Receptor CD36 in Accelerated Diabetic Atherosclerosis. INT J MOL SCI. 2020 Oct 5;21(19):7360. DOI: 10.3390/ijms21197360. PMID: 33028031; PMCID: PMC7583063. **IF: 4.556**

Oliva M, Muñoz-Aguirre M, Kim-Hellmuth S, Wucher V, Gewirtz A, Cotter D, Parsana P, Kasela S, Balliu B, Viñuela A, Castel S, Mohammadi P, Aguet F, Zou Y, Khramtsova E, Skol A, Garrido-Martín D, Reverter F, Brown A, et al. The impact of sex on gene expression across human tissues. SCIENCE 2020. Sep 11;369(6509):eaba3066. DOI: 10.1126/science.aba3066. PMID: 32913072. **IF: 41.846**

Permanyer E., Muñoz-Guijosa C., Padro J.-M., Ginel A., Montiel J., Sánchez-Quesada J.L., Vila L., Camacho M., Mini-extracorporeal circulation surgery produces less inflammation than off-pump coronary surgery (2020) EUR J CARDIO-THORAC, 57 (3), 496-503. **IF: 3.4860**

Permanyer E, Muñoz-Guijosa C, Padro JM, Ginel A, Montiel J, Sánchez-Quesada JL, Vila L, Camacho M. Mini-extracorporeal circulation surgery produces less inflammation than off-pump coronary surgery. EUR J CARDIOTHORAC SURG. 2020 Mar 1;57(3):496-503. DOI: 10.1093/ejcts/ezzz291. PubMed PMID: 31651944. **IF: 3.486**

Peypoch O, Paülis-Vergés F, Vázquez-Santiago M, Dilme J, Romero J, Giner J, Plaza V, Escudero JR, Soria JM, Camacho M, Sabater-Lleal M. The TAGA Study: A Study of Factors Determining Aortic Diameter in Families at High Risk of Abdominal Aortic Aneurysm Reveal Two New Candidate Genes. J CLIN MED. 2020 Apr 24;9(4). pii: E1242. DOI: 10.3390/jcm9041242. PubMed PMID: 32344696. **IF: 3.303**

Rodríguez-Rius A., López S., Martínez-Pérez A., Souto J.C., Soria J.M., Identification of a Plasma MicroRNA Profile Associated with Venous Thrombosis (2020) ARTERIOSCL THROM VAS, 1392-1399. **IF: 6.6040**

Rodríguez-Rius A., Martínez-Pérez A., López S., Sabater-Lleal M., Souto J.C., Soria J.M., Expression of microRNAs in human platelet-poor plasma: analysis of the factors affecting their expression and association with proximal genetic variants (2020) EPIGENETICS-US, 15 (12), 1396-1406. **IF: 4.2510**

Rykaczewska U., Suur B.E., Rohl S., Razuvaev A., Lengquist M., Sabater-Lleal M., van der Laan S.W., Miller C.L., Wirka R.C., Kronqvist M., Gonzalez Diez M., Vesterlund M., Gillgren P., Odeberg J., Lindeman J.H., Veglia F., Humphries S.E., de Faire U., Baldassarre D., Tremoli E., Lehtio J., Hansson G.K., Paulsson-Berne G., Pasterkamp G., Quertermous T., Hamsten A., Eriksson P., Hedin U., Matic L., PCSK6 Is a Key Protease in the Control of Smooth Muscle Cell Function in Vascular Remodeling (2020) CIRC RES, 126 (5), 571-585. **IF: 14.4670**

Small A.M., Huffman J.E., Klarin D., Sabater-Lleal M., Lynch J.A., Assimes T.L., Sun Y.V., Miller D., Freiberg M.S., Morrison A.C., Rader D.J., Wilson P.W.F., Cho K., Tsao P.S., Chang K.-M., Smith N.L., O'Donnell C.J., De Vries P.S., Damrauer S.M., Mendelian Randomization Analysis of Hemostatic Factors and Their Contribution to Peripheral Artery Disease - Brief Report (2020) ARTERIOSCL THROM VAS, 380-386. **IF: 6.6040**

Other Publications

- ▶ León X, García J, Farré N, Majercakova K, Avilés-Jurado FX, Quer M, Camacho M. Predictive capacity of IL-8 expression in head and neck squamous carcinoma patients treated with radiotherapy or chemoradiotherapy. Acta Otorrinolaringol Esp. 2020 Sep 21:S0001-6519(20)30146-1. English, Spanish. DOI: 10.1016/j.otorri.2020.05.003. Epub ahead of print. PMID: 32972719

Diffusion Activities

Congresses, Lectures and Conferences

- ▶ Muñoz Martín AJ, Ruiz Zamorano M, Ortega Morán L, Seguí Solís E, Rubio Pérez J, Martínez Galán J, Fernández Pérez, I, Ferrer Pérez A, Martínez de Castro E, García Escobar I, Salgado Fernández M, Pachón Olmos V, Quintanar Verdúñez T, Castellón Rubio V, Agraso Busto S, Moreno Lucente I, Cárdenas Yebra A, Gras Peral I, Salas Pérez-Rasilla E, Soria Fernández JM. Análisis comparativo de scores clínicos de predicción de riesgo de enfermedad tromboembólica venosa (estudio observacional prospectivo). Oral Communication. Virtual Congress SEOM 2020. October 2020.
- ▶ Ruiz M, Muñoz AJ, Ortega L, Font C, Rubio J, Martínez J, Fernández I, Ferrer A, Martínez E, García I, Salgado M, Pachón V, Quintanar T, Castellón V, Rupérez AB, Moreno Lucente I, Cárdenas A, Gras I, Salas E, Soria JM. Análisis comparativo de scores clínicos de riesgo en la predicción de trombosis incidental en pacientes en tratamiento quimioterápico ambulatorio: resultados de la segunda cohorte prospectiva oncothromb12-01. XXXVI Congreso Nacional de la SETH. Virtual Congress, October 2020.
- ▶ Ruiz M, Muñoz AJ, Ortega L, Font C, Rubio J, Martínez J, Fernández I, Ferrer A, Martínez E, García I, Salgado M, Pachón V, Quintanar T, Castellón V, Boix V, Seguí E, Cárdenas A, Gras I, Salas E, Soria JM. Análisis comparativo de scores clínicos de riesgo de etv sintomática en pacientes con tumores sólidos en tratamiento ambulatorio: resultados en la segunda cohorte prospectiva oncothromb12-01. XXXVI Congreso Nacional de la SETH. Virtual Congress, October 2020.
- ▶ Muñoz Martín AJ, Ruiz Zamorano M, Cárdenas Yebra A, Ortega Morán L, Ferrer Pérez AI, Rupérez Blanco AB, Rubio Pérez J, Martínez-Galán J, Font Puig C, Fernández Pérez I, Pachón Olmos V, Martínez de Castro E, Quintanar Verdúñez T, López Moreno S, Rubio Castellón V, Martínez-Pérez A, Seguí E, Salas E, Soria Fernández JM. Comparison of different clinical risk assessment models (RAMs) in ambulatory cancer patients receiving chemotherapy from Oncothromb-02 study. 10th International Conference on Thrombosis and Hemostasis issues in Cancer (ICTHIC). Bergamo 2020.
- ▶ Sabater-Lleal M, Ji Y, Temprano G, Wiggins K. L, Brown M, Desch KC, Martinez-Perez A, Kleber ME, Morange PE, Fuchsberger C, Chen MH, Cushman M, Tang W, de Vries PS, Huffman J. E, O'Donnell C. J, Morrison AC, Smith NL, CHARGE Consortium Hemostasis Working Group. Genome-wide association analyses of natural anticoagulants using TOPMED reference panel reveal novel loci associated with Antithrombin, Protein C and Protein S. American Society of Human Genetics Meeting. Virtual Meeting. 27-30 October 2020.
- ▶ Thibord F, Song C, Chen MH, Rodriguez B, Yanek L, Sabater-Lleal M, Carrasquilla GD, Hampton L, Rotter JI, Desch KC, Morange P, Kleber ME, Smith NL, Morrison AC, Johnson AD. Exome-array Analysis of Plasma Hemostatic Factors D-dimer, tPA and PAI-1 Identifies Novel Genes. American Society of Human Genetics Meeting. Virtual Meeting. 27-30 October 2020.
- ▶ PeyPOCH O, Pauls F, Dilme J, Romero J, Escudero JR, Soria JM, Camacho M, Sabater Lleal M. The TAGA Study: a study of factors determining aortic diameter in families at high risk of Abdominal Aortic Aneurysm. European Society of Vascular Surgery Meeting. 8-10th June 2020. Virtual meeting.
- ▶ Dilmé, Jaume. Speaker. Round table: Enfermedad aorto-iliaca oclusiva. Primer Congreso Virtual SEACV. 10-28 September 2020.
- ▶ Dilmé J. SITE Update, On-Air 2020 International Symposium on Endovascular Therapeutics. Sponsored Symposia. Type B Aortic treatment: from PETTICOAT to STABILISE using Medtronic Valiant NavionTM Thoracic stent graft System. Barcelona 18 September 2020.
- ▶ Dilmé, J. Patología del arco aórtico. Abordaje endovascular: ¿Cuándo y Cómo? VIII Jornada Multidisciplinar de Aorta. Hospital Vall d'Hebron, Barcelona. 25 June 2020.
- ▶ R. Guerrero, A.P. Corujo, J. Dilmé, B. Soto, J. Villaba Auñón, J. Hernández García, J.P. Martínez Gutiérrez, J. Branera Pujol. VBX stent graft: a new era for iliac endovascular treatment. Poster Online System on the occasion of the online CIRSE 2020 Summit.
- ▶ Rovira Safont R, Dilmé Muñoz JF, Arzamendi Aizpurua D, Moustafa AH, Moreno Molina JA, Escudero Rodríguez JR. Coartación aórtica crónica con pseudoaneurismas anastomóticos de bypass de subclavia izquierda a aorta descendente: tratamiento híbrido en unidad aórtica multidisciplinar. Poster. 1r Congreso Virtual de la Sociedad Española de Angiología y Cirugía Vascular 2020.
- ▶ Rovira Safont R, Dilmé Muñoz JF, Soto Carricas B, Moustafa AH, Montiel Serrano J, Escudero Rodríguez JR. Divertículos de kommerell: anatomía, presentación clínica, tratamiento y utilidad de los modelos 3d en la actualidad. Poster 1r Congreso Virtual de la Sociedad Española de Angiología y Cirugía Vascular 2020.

Dissemination to Society. Talks and Communication Media

- ▶ Maria Sabater-Lleal. "Genetics to study complex diseases". Project "Morning of Research 2020", organized by ISGlobal and ACCC. Institut Vdruna Gràcia, 27 November 2020.
- ▶ La Vanguardia: <https://www.pressreader.com/spain/la-vanguardia/20200331/282059099100939>
- ▶ "Tot es mou", TV3: <https://www.ccma.cat/tv3/alacarta/tot-es-mou/jose-manuel-soria-mentre-el-virus-estigui-en-lanimal-que-lha-transmes-hi-haura-un-reservori-i-pot-tornar/video/6036452/>
- ▶ <https://www.lavanguardia.com/vida/20200429/48819697501/sant-pau-identifica-elementos-reguladores-de-los-genes-que-provocan-trombosis.html>
- ▶ <https://www.ccma.cat/catràdio/alacarta/catalunya-migdia-cap-de-setmana/descobreixen-factors-de-risc-de-tenir-trombosi-una-complicacio-important-de-la-covid-19/audio/1069799/>
- ▶ "Planta Baixa" TV3 (TV programme): <http://www.recercasantpau.cat/wp-content/uploads/2020/05/050520-TV3-Planta-Baixa-Dr-Soria-1.mp4>
- ▶ Diario Médico: <https://www.diariomedico.com/investigacion/hay-que-estratificar-el-riesgo-de-trombosis-en-pacientes-con-covid-19.html>
- ▶ Diari Ara: https://www.ara.cat/societat/Busquen-biomarcadors-genetics-provoquen-covid-19-recerca-investigacio-trombosi-coronavirus_0_2456754464.html
- ▶ La Cope: https://www.cope.es/actualidad/sociedad/noticias/coronavirus-hospital-sant-pau-evalua-riesgo-trombosis-pacientes-con-covid-19-20200525_734558
- ▶ El Matins de TV3 (TV programme): <https://www.ccma.cat/tv3/alacarta/els-matins/biomarcadors-per-preveure-la-trombosi-en-malalts-de-covid-19/video/6046859/>
- ▶ <https://www.elperiodico.com/es/economia/20200626/the-collider-8015733>
- ▶ <https://www.lavanguardia.com/vida/20200910/483398262246/el-sexo-es-una-variable-biologica-a-tener-en-cuenta-en-los-estudios-geneticos.html>
- ▶ Més_324 (TV programme): <https://www.ccma.cat/tv3/alacarta/mes-324/entrevista-a-jose-manuel-soria-director-de-la-unitat-de-recerca-genomica-de-els-malalties-complexes-de-linstitut-dinvestigacio-de-sant-pau-la-recerca-no-es-una-despesa-es-una-inversio/video/6064086/>
- ▶ Canal Youtube de la Associació ActivaTT por la Salut: https://www.youtube.com/watch?v=LCExUV_sAg
- ▶ La Vanguardia: <https://www.lavanguardia.com/vida/20210312/6371215/foment-activatt-enfermedades-vasculares-alianza.html>