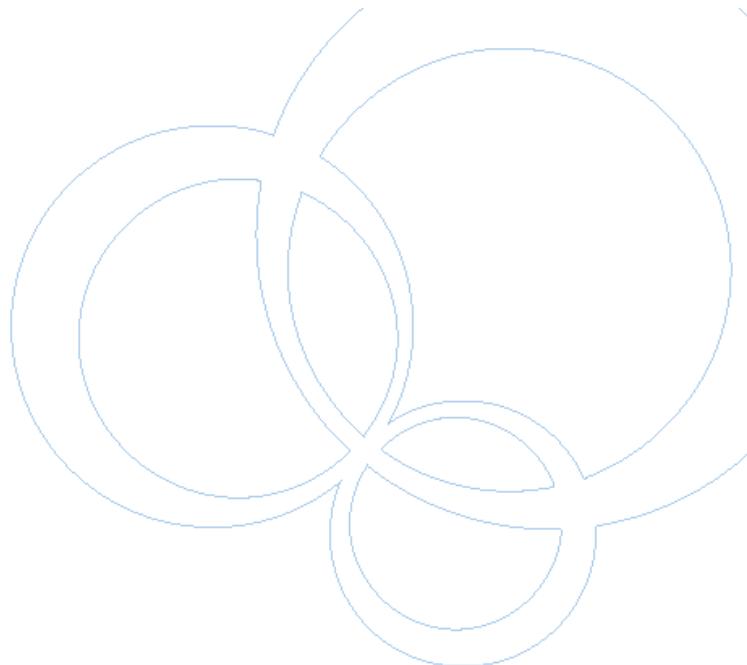




IISPV
INSTITUT
D'INVESTIGACIÓ
SANITÀRIA
PERE VIRGILI



MEMÒRIA CIENTÍFICA IISPV 2020

31.12.2020

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Pere Virgili (IISPV), 2020

Hospital Universitari Sant Joan de Reus
Avda. Josep Laporte, 2
Planta 0 - E2 color taronja
43204 Reus (Tarragona)

Hospital Universitari de Tarragona Joan XXIII
Edifici de Docència i Recerca
c/ Doctor Mallafrè, 4 – 1a planta
43005 Tarragona

www.iispv.cat

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1. Presentació

Benvolguts amics,

Des de la seva creació el 2005, l'IISPV ha estat treballant per garantir que la investigació biomèdica es tradueixi en una pràctica clínica de millor qualitat per al benefici dels pacients i una millor salut per a la nostra població. El nostre Institut dóna feina a més de 400 persones, entre investigadors, tècnics i personal de suport, que fan possible que els projectes arribin a temps. També cal esmentar tot el personal sanitari que, amb la seva tasca sanitària, forma part d'una estructura complementària que permet que la combinació d'atenció, docència i investigació sigui una realitat a les nostres institucions sanitàries.

Fem investigacions que cobreixen una àmplia gamma de malalties que combinen el coneixement fonamental de la ciència amb la investigació clínica, amb un alt component translacional, per arribar al pacient el més aviat possible. L'IISPV té un gran perfil entre les institucions de recerca del país i forma part de la institució CERCA (Fundació Institució de Centres de Recerca de Catalunya (I-CERCA) de Catalunya). No obstant això, els grups de recerca gaudeixen de prestigi internacional i pertanyen a diferents xarxes d'arreu d'Europa i de la resta del món.

La investigació realitzada a l'IISPV busca donar resposta a preguntes rellevants per a la salut de la població, mitjançant el mètode científic, la tecnologia més avançada i el talent de les persones que hi treballen. Escoltem pacients, busquem estratègies per desenvolupar projectes, busquem finançament per dur-los a terme i, finalment, transferim els nostres resultats a les persones. L'IISPV és un institut proper, arrelat al territori i, alhora, amb una important participació en xarxes d'excellència nacionals i internacionals. Realitzem investigacions d'alta qualitat en un sector productiu considerat d'alt valor afegit, rellevant per al territori, rellevant per a la societat i, sobretot, rellevant per a les persones que hi treballen, el nostre millor actiu.

Vull aprofitar aquesta memòria per animar-vos a continuar treballant com ho feu i fer-vos saber que és un orgull poder estar al capdavant dirigint la institució. Gràcies per la confiança i enhorabona a tothom.

Joan J. Vendrell
Director

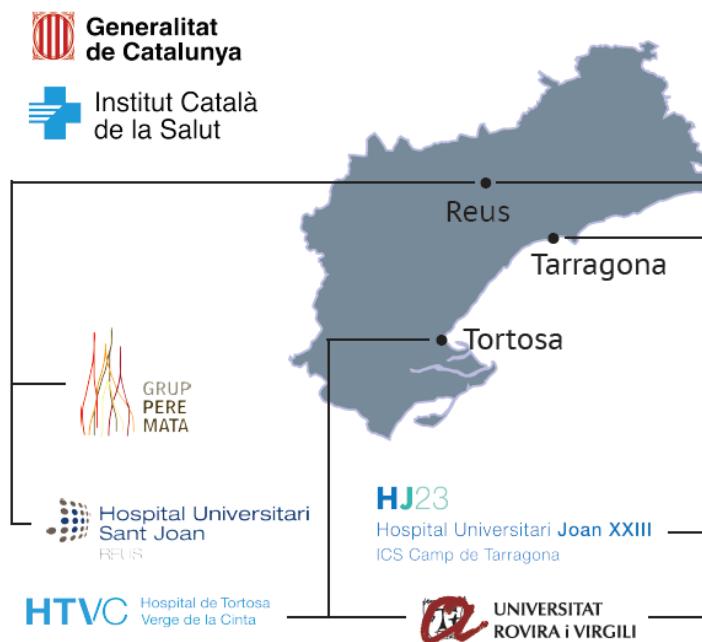
2. Què és l'IISPV?

L'IISPV és l'entitat que gestiona la recerca de l'àmbit biomèdic i sanitari de la Província de Tarragona.

L'Istitut creat l'any 2005 està integrat per: ICS Camp de Tarragona amb l'Hospital Universitari de Tarragona Joan XXIII, ICS Terres de l'Ebre amb l'Hospital Verge de la Cinta, pel Grup Sagessa amb l'Hospital Universitari Sant Joan de Reus, el Grup Pere Mata (Hospital Universitari Psiquiàtric Institut Pere Mata) i la Universitat Rovira i Virgili.

Missió:

La missió de l'IISPV és gestionar de forma eficient els recursos propis i aliens i donar el millor servei a l'abast de les seves possibilitats als professionals de la Salut, per a que mitjançant la promoció, la consolidació i la translació de la recerca en l'àmbit biosanitari es millori la salut i el benestar de la població.

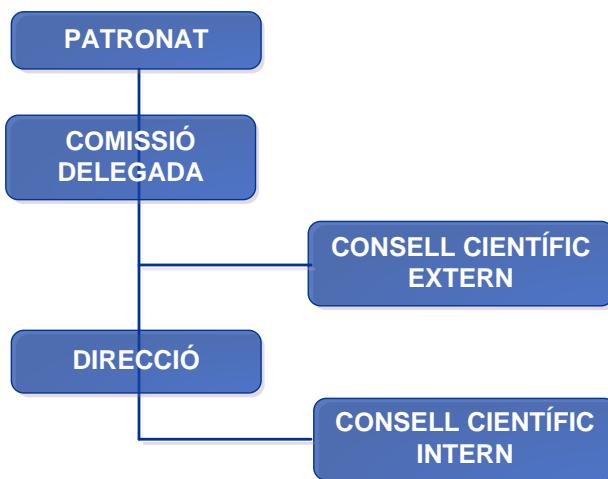


3. Organigrama

Òrgans de govern i de gestió

D'acord amb el que es detalla en els Estatuts vigents de l'IISPV (aprovats en sessió del Patronat 4/12 del 12 de desembre de 2012), l'Institut s'organitza en òrgans de govern i consultius, en els mateixos Estatuts s'hi detallen les seves funcions. L' estructura es mostra en la figura 1:

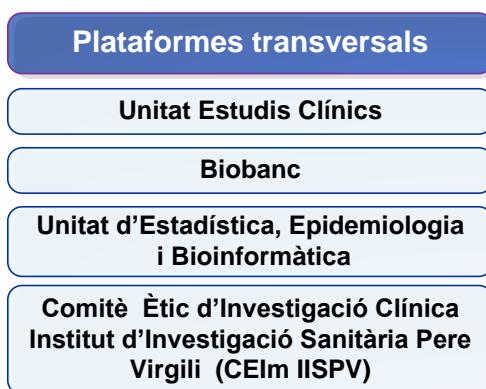
Figura 1. Composició dels òrgans de govern i els òrgans consultius de l'IISPV.



Àrea Científica

IISPV disposa de plataformes transversals de support a la recerca com el CEImIISPV (Comitè Ètic d'investigació Clínica) unitat d'Estudis Clínics Biobanc, Unitat d'Estudis Clínics diverses plataformes transversals de suport a la recerca¹ tal i com es mostren a la figura 2.

Figura 2. Estructura de recerca de l'IISPV (Comitès Ètics d'Investigació Clínica i Plataformes).

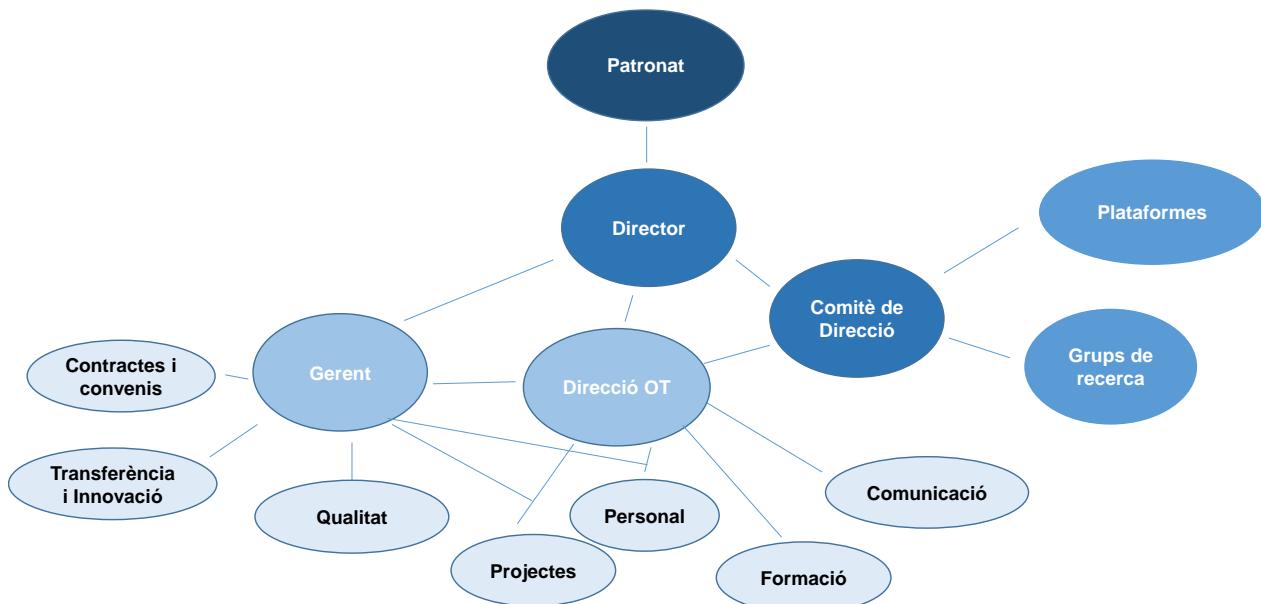


¹ Més informació: http://www.iispv.cat/plataformes_de_suport/index.html

Estructura de gestió

L'estructura de gestió de l'IISPV s'organitza de la manera següent:

Figura 3. Organigrama de l'IISPV.



Director

Dr. Joan Josep Vendrell Ortega

Direcció Econòmica i Financera - Gerència

David Martín Frígols

Direcció d'Administració i Operacions

Elisabet Galve Aixa

Innovació, Comunicació i Gestió de la Qualitat

Maria Jose Guilera Morilla

Projectes internacionals

Alba Martí

Joana Díaz

Projectes R+D+i

Neus Rodríguez Nogales

Gestió Econòmica

Elisabet Serralvo

Marta Valls March

Personal i Formació

Rebeca Bueno Palomares

CEIm IISPV

Meritxell Torres Paisal

4. Àrees i grups de recerca

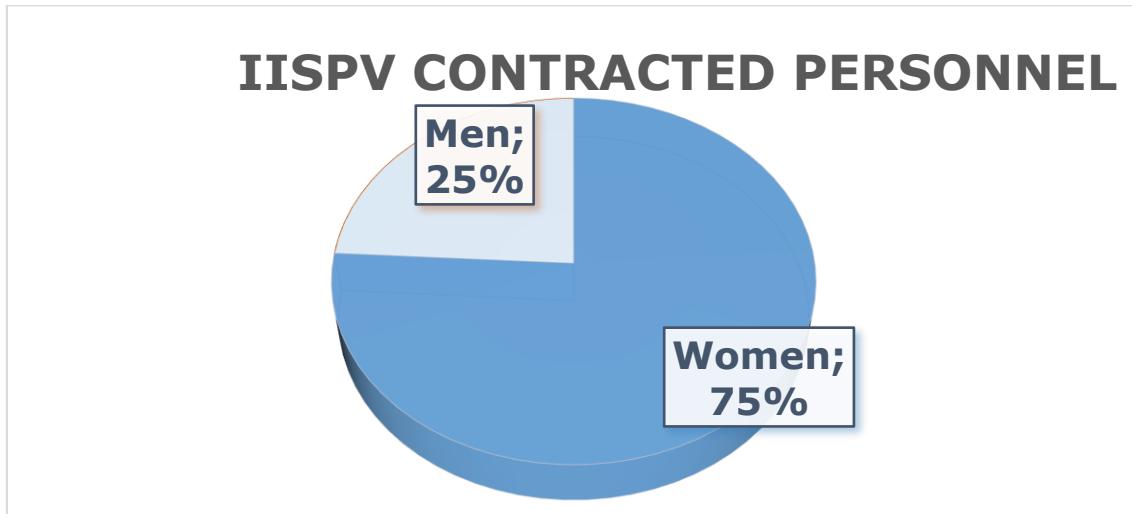
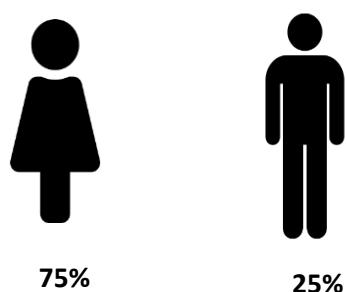
L'IISPV és competitiu en 3 àmbits estratègics de recerca:

- Nutrició i Metabolisme.
- Neurociències i Salut Mental
- Salut i Medi ambient:

L'IISPV compta amb 19 grups de recerca entre consolidats i emergents.

5. Personal de l'IISPV

L'IISPV està format per 410 persones entre investigadors adscrits i associat, personal en formació i tècnics de suport a la recerca. L'IISPV ha tingut relació contractual amb 112 persones durant l'any 2020, el 75% de les quals són dones i el 25% són homes.



Aquests 112 treballadors i treballadores estan classificats en els següents perfils professionals Euraxess: (Afegir gràfic R1-R4) Presentació site visit HRS4R



L'any 2017, l'IISPV va superar el procés d'avaluació de l'acreditació The Human Resources Strategy for Researchers de Recursos Humans (HSR4R).



Aquest reconeixement demostra que l'IISPV fa seus els principis generals de la Carta Europea de l'Investigador i el Codi de Conducta per a la Contractació d'Investigadors (Carta i Codi), i dona ple suport al seu compromís en la millora de les polítiques i procediments interns. Aquesta acreditació d'excel·lència és una oportunitat per establir una estratègia de recursos humans global, així com millors pràctiques internes i aconseguir visibilitat internacional.

6. Producció científica

Un objectiu estratègic de l'IISPV és millorar el posicionament dels àmbits estratègics i grups de recerca i del mateix Institut en els mapes bibliomètrics nacionals i internacionals, incrementant la qualitat alhora que la quantitat de la ciència (i, per tant, dels documents científics) produïda. Això ha d'anar acompanyat d'una progressiva transformació de la recerca en una activitat diferenciada, especialitzada i profundament professionalitzada.

Publicacions indexades amb factor d'impacte

Pel que fa a la producció científica, el nombre de publicacions totals indexades en el *Journal Citation Reports* ha estat de 492 el 2020. El factor d'impacte acumulat és de 2.145 punts, amb una mitja de 4,36 punts per publicació, tal i com es detalla en la taula següent:

Taula 1. Producció científica 2017.

Publicacions indexades	470
Factor d'impacte acumulat	2.039
Factor d'impacte mitjà	4,34
Q1	323 (69%)
D1	24%

El gràfic següent mostra l'evolució dels últims anys del factor d'impacte total i el nombre de publicacions indexades.

El gràfic 1. Evolució dels últims 6 anys de factor d'impacte i publicacions indexades.



La distribució de les publicacions indexades per quartils se'n deriva que un 69% d'aquestes es situen en el primer quartil fet que ens diu que la recerca que es publica és d'excel·lència, destacar que el 24% es situen en el primer decil.

Tesis doctorals

Durant aquest 2020 s'han defensat un total de 26 tesis doctorals.

7. Activitat de recerca

Projectes, contractes i convenis gestionats

Durant 2020, el nombre de projectes actius de recerca competitius ha estat de 71 i 39 ajuts competitius per a recursos humans (taula 3).

La gestió d'assaigs clínics i estudis observacionals durant l'any 2020 ha estat de 192 (95 assajos clínics i 97 estudis), dels quals 60 (26 assajos clinics i 34 estudis) són nous contractes.

L'IISPV i les Institucions constituents fomenten la col·laboració dels grups de recerca amb grups d'altres centres a través de la participació en xarxes temàtiques. Són 6 grups de recerca que pertanyen a estructures estables de recerca finançades, 14 són Grups de Recerca Reconeguts per l'AGAUR (SGR) i l'IISPV pertany a 2 plataformes de l'ISCIII:

Taula 1. Estructures estables de recerca finançades.

Estructures de recerca	Núm.
CIBERdem – Diabetes i Malalties Metabòliques Associades	3
CIBERRobn – Fisiopatologia de l'Obesitat i Nutrició	1
CIBERSam – Banc d'Instruments i metodologies en Salut Mental	1
RETIC de Sida (RIS ISCIII)	1
Plataformas ISCIII (Biobnacs; Itemas)	2
Grups de Recerca Reconeguts per l'AGAUR (SGR)	14
Total de grups	22

Pel que fa a l'import gestionat, durant 2020 per l'IISPV, de projectes de recerca públics competitius i no competitius és de 4.205.257 €, tal i com pot veure's en la taula 2. El finançament per la contractació d'investigadors de diferents programes competitius d'organismes oficials, els quals es detallen en la taula 6 (llistat obtinguts d'ajuts per a recursos humans per carrera investigadora).

Taula 2. Finançament gestionat per l'IISPV durant 2020.

CONCEPTE	2020
Fons públics competitius	2.340.568
Fons privats	1.204.699
Generalitat de Catalunya	659.990
Total gestionat	4.205.257 €

Taula 3. Nombre d'ajuts públics competitius per a Recursos Humans gestionats durant l'any 2020.

Projectes competitius actius de RRHH	2020
Miguel Servet	3
Miguel Servet II	1
Ramon y Cajal	2
Juan de la Cierva	2
Sara Borrell	1
Río Hortega	1
Predoctoral ISCIII	6
FI predoctorals AGAUR	3
PTA (AEI)	1
Empleo Joven (AEI)	5
Predoctorales (AEI)	2
Peris	4
Ajuts SOC	4
Boosting Talent / Arrela't	4
Total	39

8. Propietat industrial i intel·lectual

En la taula següent es detalla l'oferta tecnològica de l'Institut.

Taula 7. Oferta tecnològica gestionada per l'IISPV.

PORTFOLIO	
Patents	11
Software	13
Registres Propietat Intelectual	6

Noves	2020
Patents	3
Software	4
Registres Propietat Intelectual	1

9. Activitat de comunicació i formació

Un servei bàsic per enfortir la investigació en translació, valoritzar els resultats de la recerca i les notícies de l'Institut és comunicar els seus resultats a la població, mitjançant la comunicació i els plans de difusió.

Durant el 2020 l'IISPV ha dut a terme diverses accions de comunicació, les més destacades són:

Gener

- Investiguen a reus possibles tractaments per LAM una malaltia respiratòria ultra rara
- Lliurament del xec de la 5a Edició de la caminada solidària "Fem un pas contra la diabetis"

April

- Més de 4000 persones segueixen el repte esportiu solidari impulsat per l'Ajuntament de Reus
- L'IISPV engega una campanya de donacions per la lluita contra el coronavirus SARS-CoV-2
- CODITA dóna 3.000 euros a la campanya endegada per l'IISPV per la lluita contra el coronavirus

Maiq

Messer s'uneix a la lluita contra la Covid-19

Juny

- Lliurats a l'Institut d'Investigació Sanitària Pere Virgili els diners recaptats en la 1a Fira del Vi de Falset Online
- Iniciativa de recaptació de fons del Grup TransPal per fer front a la COVID-19
- Noves oficines de l'Institut d'Investigació Sanitària Pere Virgili
- Lliurament del xec solidari a l'Institut d'Investigació Sanitària Pere Virgili per fer recerca de la COVID-19

Setembre

- 'Què i com menjar durant el càncer'

Novembre

- La Nit Europea de la Recerca fa més propera la ciència amb més de 60 activitats divulgatives

Desembre

- 7è Seminari Científic IISPV

L'IISPV continua fent la seva activitat de difusió en les xarxes socials a través del compte de Twitter @IISPereVirgili.

La Unitat de Formació de l'IISPV aquest 2020 ha gestionat 6 seminaris.

10. Grups de recerca per àmbit estratègic

10.1. Nutrició i metabolisme

1) Grup de recerca en Cirurgia de l'Obesitat i Metabòlica



- Investigador/es sènior: Fàtima Sabench Perefrerer
- Investigador/a post-doctoral: Margarida Vives Espelta, Alicia Molina López
- Assistencial: Esther Raga Carceller, Joan Domènech Calvet, Antonio Sánchez Marín
- Inv. Predoctoral: Marta París Sans, Amada Culebradas Barrera

Responsable del grup: Daniel Del Castillo Déjardin

Línes d'investigació

- Cirurgia de l'obesitat i metabòlica clínica.
- Cirurgia de l'obesitat i metabòlica experimental (animals d'experimentació).
- Fisiopatologia quirúrgica de les hormones gastrointestinals.
- Esteatosi hepàtica no alcohòlica (NAFLD) i cirurgia bariàtrica.
- Canvis en la microbiota intestinal i cirurgia bariàtrica.
- Fisiopatologia de la absorció intestinal i cirurgia bariàtrica.
- Patologia de paret abdominal i cirurgia bariàtrica.
- Valoració nutricional i cirurgia bariàtrica.

Membres del grup

- Responsable de grup: Daniel Del Castillo Déjardin

Projectes Competitius Actius

Title: PI18/00081 CAMBIOS EN LAS ISOFORMAS DE GRELINA Y LA MICROBIOTA EN RELACION A LA GASTRECTOMIA VERTICAL Y A LA PRESENCIA DE HELICOBATER PYLORI: ANALISIS METABOLOMICO, METAGENOMICO E INMUNOHISTOQUIMICO

Principal Investigator: DEL CASTILLO DEJARDIN, DANIEL

Duration: 01/01/2019 - 30/06/2023

Funding entity: INSTITUTO CARLOS III

Publicacions científiques

Gastrointestinally Digested Protein from the Insect *Alphitobius diaperinus* Stimulates a Different Intestinal Secretome than Beef or Almond, Producing a Differential Response in Food Intake in Rats.

Miguéns-Gómez A, Grau-Bové C, Sierra-Cruz M, Jorba-Martín R, Caro A, Rodríguez-Gallego E, Beltrán-Debón R, Blay MT, Terra X, Ardévol A, Pinent M. Nutrients 2020 Aug 7;12(8). FI:4,777 (Q1)

Protective properties of grape-seed proanthocyanidins in human ex vivo acute

colonic dysfunction induced by dextran sodium sulfate

Gonzalez-Quilen, C; Grau-Bove, C; Jorba-Martin, R; Caro-Tarrago, A; Pinent, M; Ardevol, A; Beltran-Debon, R; Terra, X; Blay, MT. EUROPEAN JOURNAL OF NUTRITION 2020 Mar 18. FI:4,664 (Q1)

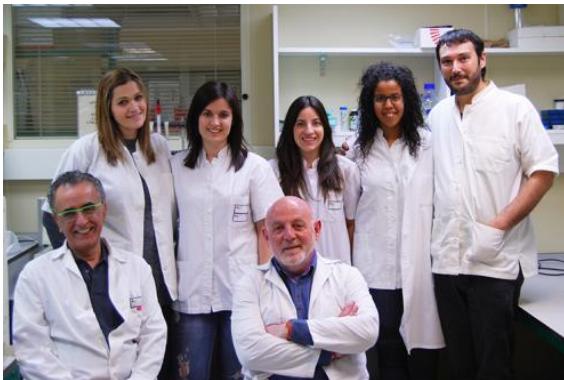
Effects of Flavanols on Enteroendocrine Secretion

Grau-Bové C, González-Quilen C, Terra X, Blay MT, Beltrán-Debón R, Jorba-Martín R, Espina B, Pinent M, Ardévol A. Biomolecules 2020 Jun 1. FI:3,935 (Q1)

Effects of Flavanols on Enteroendocrine Secretion.

Grau-Bove, C.; Gonzalez-Quilen, C.; Terra,X.; Blay, M Teresa; Beltran-Debon, R.; Jorba-Martin, R.; Espina, B.; Pinent, M.; Ardevol, A. Biomolecules 2020 Jun 01. FI:3,935 (Q2)

2) Unitat de Recerca Biomèdica (URB)



Responsible del grup: Jorge Joven Maried

Línies d'investigació

- Inflamació i metabolisme energètic en l'obesitat
- Modificacions epigenètiques derivades de la combinació de diabetis i obesitat
- Mecanismes moleculars i marcadors biològics dels processos metabòlics derivats del tractament de l'obesitat
- Marcadors biològics en infeccions del tracte urinari
- Efecte de la radioteràpia sobre l'estrés oxidatiu i els processos metabòlics en pacients amb càncer

Membres del grup

- Responsable de grup: Jorge Joven Maried, Jordi Camps Andreu
- Investigadors/es sènior: Vicente Martín Paredero, Carlos Alonso-Villaverde, Meritxell Arenas Prat
- Investigadors/es post-doctoral: Isabel Fort Gallifa, Anna Hernández Aguilera, Montserrat Fibla Simó, Salvador Fernández Arroyo
- Doctorand/a: Gerard Baiges Gayà, Elisabet Rodríguez Tomàs, Helena Castañé Vilafranca

Projectes Competitius Actius

Title: TV3: THE IMPACT OF ENERGY METABOLISM ON EPIGENETIC MODIFICATIONS RELATED TO THE COMBINATION OF DIABETES AND OBESITY (DR. JOVEN) FUNDACIO LA MARATO TV3

Principal Investigator: JOVEN MARIED, JORGE

Duration: 24/02/2017 - 24/02/2020

Funding entity: FUNDACIO LA MARATO TV3

Title: PI18/00921 MECANISMOS MOLECULARES Y MARCADORES BIOLOGICOS DE LOS PROCESOS METABOLICOS Y EPIGENETICOS QUE RESULTAN DEL TRATAMIENTO DE LA OBESIDAD

Principal Investigator: JOVEN MARIED, JORGE

Duration: 01/01/2019 - 31/12/2021

Funding entity: INSTITUTO CARLOS III

Title: MARATO TV3: 201807-10 569/U/2018 FUNDACIO MARATO TV3 IDENTIFICATION OF BIOMARKERS BASED ON ENERGY METABOLISM AND OXIDATIVE STRESS IN PATIENTS WITH URINARY CATHETER-ASSOCIATED INFECTIONS AND DEVELOPMENT OF BIOSENSORS FOR THEIR DETERMINATION IN PRIMARY AND HOSPITAL CARE - DR.JORGE CAMPS ANDREU

Principal Investigator: CAMPS ANDREU, JORDI

Duration: 03/05/2019 - 03/05/2022

Funding entity: FUNDACIO LA MARATO TV3

Publicacions científiques

[Multiplexed monitoring of a novel autoantibody diagnostic signature of colorectal cancer using HaloTag technology-based electrochemical immunosensing platform](#)

Garranzo-Asensio M, Guzmán-Aránguez A, Povedano E, Ruiz-Valdepeñas Montiel V, Poves C, Fernandez-Aceñero MJ, Montero-Calle A, Solís-Fernández G, Fernandez-Diez S, Camps J, Arenas M, Rodríguez-Tomàs E, Joven J, Sanchez-Martinez M, Rodriguez N, Dominguez G, Yáñez-Sedeño P, Pingarrón JM, Campuzano S, Barderas R. *Theranostics* 2020 Feb 10. FI:8,579 (Q1)

[Plasma metabolic alterations in patients with severe obesity and non-alcoholic steatohepatitis](#)

Cabré N, Luciano-Mateo F, Baiges-Gayà G, Fernández-Arroyo S, Rodríguez-Tomàs E,

Hernández-Aguilera A, París M, Sabench F, Del Castillo D, López-Miranda J, Menéndez JA, Camps J, Joven J. Aliment Pharmacol Ther 2020 Feb. FI:7,515 (Q1)

Systemic overexpression of C-C motif chemokine ligand 2 promotes metabolic dysregulation and premature death in mice with accelerated aging

Luciano-Mateo F, Cabré N, Baiges-Gaya G, Fernández-Arroyo S, Hernández-Aguilera A, Elisabet Rodríguez-Tomàs E, Arenas M, Camps J, Menéndez JA, Joven J. Aging (Albany NY) 2020 Oct 26. FI:4,831 (Q2)

Quercetin metabolites from Hibiscus sabdariffa contribute to alleviate glucolipotoxicity-induced metabolic stress in vitro

Herranz-López M, Olivares-Vicente M, Rodríguez Gallego E, Encinar JA, Pérez-Sánchez A, Ruiz-Torres V, Joven J, Roche E, Micol V. Food Chem Toxicol 2020 Oct. FI:4,679 (Q1)

Chemokine C-C motif ligand 2 overexpression drives tissue-specific metabolic responses in the liver and muscle of mice

Luciano-Mateo F, Cabré N, Fernández-Arroyo S, Baiges-Gaya G, Hernández-Aguilera A, Rodríguez-Tomàs E, Muñoz-Pinedo C, Menéndez JA, Camps J, Joven J. Sci Rep 2020 Jul 20. FI:3,998 (Q1)

Alterations in plasma concentrations of energy-balance-related metabolites in patients with lung, or head & neck, cancers: Effects of radiotherapy

Rodríguez-Tomàs E, Arguis M, Arenas M, Fernández-Arroyo S, Murcia M, Sabater S, Torres L, Baiges-Gayà G, Hernández-Aguilera A, Camps J, Joven J. J Proteomics 2020 Feb 20. FI:3,509 (Q1)

Chemokine (C-C motif) ligand 2 and coronary artery disease: Tissue expression of functional and atypical receptors

Hernández-Aguilera A, Fibla M, Cabré N, Luciano-Mateo F, Camps J, Fernández-Arroyo S, Martín-Paredero V, Menendez JA, Sirvent JJ, Joven J. Cytokine 2020 Feb. FI:2,952 (Q1)

Risk factors associated with mortality in hospitalized patients with SARS-CoV-2

infection. A prospective, longitudinal, unicenter study in Reus, Spain Iftimie S, López-Azcona AF, Vicente-Miralles M, Descarrega-Reina R, Hernández-Aguilera A, Riu F, Simó JM, Garrido P, Joven J, Camps J, Castro A. PLoS One 2020 Sep 3. FI:2,74 (Q1)

Effects of radiotherapy on plasma energy metabolites in patients with breast cancer who received neoadjuvant chemotherapy.

Arenas M, Fernández-Arroyo S, Rodríguez-Tomàs E, Sabater S, Murria Y, Gascón M, Amillano K, Melé M, Camps J, Joven J. Clin Transl Oncol 2020 Jul. FI:2,737 (Q2)

Clinical value of procalcitonin in critically ill patients infected by SARS-CoV-2

Garrido P, Cueto P, Rovira C, Garcia E, Parra A, Enriquez R, Pinos A, Sosa M, Hernández-Aguilera A, Vallverdú I, Am J Emerg Med 2020 Nov 8:S0735-6757(20)31020-2. FI:1,911 (Q1)

3) Grup de Recerca en Diabetis i Malalties Metabòliques Associades



Responsables del grup: Sonia Fernández Veledo i Joan Vendrell Ortega

Línies d'investigació

- El paper de les cèl·lules mare derivades del teixit adipós (ASC) en la plasticitat del teixit adipós.
- Teixit adipós com a nexe que uneix el metabolisme i la immunitat.
- Inflamació i signatura microbiana del teixit adipós.
- Trastorns metabòlics en la diabetis gestacional: implicacions pel metabolisme de la placenta i el maneig de nutrients.
- Buscar nous enllaços moleculars entre l'obesitat i el càncer.

Membres del grup

- Responsable de grup: Sonia Fernández-Veledo, Joan Josep Vendrell Ortega
- Investigadors/es clínics: Ana Megía Colet, Laia Martínez Guasch, Esther Solano Fraile, Theodora Michalopoulou Alevras, Mónica Millán, Mónica Ballesteros, Carme Martí Mezcua, Albert Guarque Rus, Albert Pardo Balteiro, Cristina Díaz Perdigones, Adrià Rodríguez Castellano, Roxana Zavala Arauco, Silvia Daniela Naf Cortés, Cristina Gutiérrez Fornés, Gemma Llauradó Cabot, Ramon Bosch, Lídia Cedó Giné

- Investigadors/es sènior: Carolina Serena Perelló, Victoria Ceperuelo Mallafré

- Investigador/a post-doctoral: Ana Paula da Silva Madeira, Brenno Domínguez Porfirio, Lídia Cedó Giné

- Technology Transfer and Innovation Manager: Isabel Huber Ruano

- Tècnic/a: Diandra Monforte, Catalina Núñez Roa, M. Mar Rodríguez Peña, Elsa Maymó Masip

- Doctorand/a: Sergyi Klid, Joan Sabadell Basallote, Ester Benaiges Moragrega, Margarida Terrón Puig

Projectes Competitius Actius

Title: UPI- ECCO GRANT AGREEMENT: IISPV I ECCO 'AN INTEGRATIVE ANALYSIS OF DNA METHYLATION AND RNA-SEQ DATA IN HUMAN ADIPOSE-STEM CELL OF CROHN'S DISEASE PATIENTS WITH DIFFERENT CLINICAL ACTIVITY'

Principal Investigator: SERENA PERELLO, CAROLINA

Duration: 01/01/2019 - 30/06/2020

Funding entity: EUROPEAN CROHN'S AND COLITIS ORGANISATION

Title: MARATO TV3: DR.VENDRELL

Principal Investigator: VENDRELL ORTEGA, JOAN

Duration: 01/01/2017 - 31/08/2020

Funding entity: FUNDACIÓ LA MARATO TV3

Title: MARATO TV3: MECHANISMS RESPONSIBLE FOR THE DEFECTIVE DIFFERENTIATION CAPACITY OF ADIPOSE-DERIVED STEM CELLS IN OBESITY: IDENTIFICATION OF NEW REGULATOR AMENABLE FOR THE DEVELOPMENT OF INNOVATIVE THERAPIES (DR.SONIA FERNANDEZ)

FUNDACIÓ LA MARATO TV3

Principal Investigator: FERNANDEZ VELEDO, SONIA

Duration: 01/01/2017 - 31/12/2020

Funding entity: FUNDACIÓ LA MARATO TV3

Title: CI19-00055 - NEW PROBIOTIC STRATEGIES FOR OBESITY-RELATED DISORDERS CAIXA IMPULSE -ISABEL HUBER -

Principal Investigator: HUBER RUANO, ISABEL

Duration: 01/12/2019 - 31/10/2021

Funding entity: FUNDACIO BANCARIA CAIXA D'ESTALVIS I PENSIONS DE BARCELONA

Title: PI17/01503 VARIABILIDAD FUNCIONAL DE LAS CELULAS MADRE MESENQUIMALES DEL TEJIDO ADIPOSO (ASCS) TRAS LA PERDIDA DE PESO. RELACION CON METAFACTORES VINCULADOS A LA MICROBIOTA INTESTINAL.

Principal Investigator: VENDRELL ORTEGA, JOAN

Duration: 01/01/2018 - 31/12/2021

Funding entity: INSTITUTO CARLOS III

Title: IU68-018623 AJUTS PER A PROJECTES DE VALORIZACIO I TRANSFERENCIA DE CONEXEMENT DESENVOLUPATS PER INNOVADORS EN ESTADES EN ENTITATS DEL SISTEMA DE RECERCA I INNOVACIO DE CATALUNYA (INNOVADORS 2019) AGAUR. PO FEDER CATALUNYA 2014-2020. CODI OPERACIO IU68-018623

Principal Investigator: FERNANDEZ VELEDO, SONIA

Duration: 01/10/2020 - 31/03/2022

Funding entity: AGENCIA DE GESTIO D'AJUTS UNIVERSITARIS I DE RECERCA

Title: "IU68-017106 CONVOCATORIA DELS AJUTS D'INDUSTRIA DEL CONEXEMENT PER A L'ANY 2019 (LLAVOR I PRODUCTE), SUSCEPTIBLES DE SER COFINANÇATS, PEL FONS EUROPEU DE DESENVOLUPAMENT REGIONAL (FEDER) (REF.BDNS 458466) IU68-017106"

Principal Investigator: FERNANDEZ VELEDO, SONIA

Duration: 23/07/2020 - 22/04/2022

Funding entity: AGENCIA DE GESTIO D'AJUTS UNIVERSITARIS I DE RECERCA

Title: "RTI2018-093919-B-I00 PROGRAMA ESTATAL DE I+D+I ORIENTADA A LOS RETOS DE LA SOCIEDAD - MINISTERIO

DE CIENCIA, INNOVACION Y UNIVERSIDADES 'SUCCINATO COMO NUEVA MOLECULA DE SEÑALIZACION EXTRACELULAR REGULADORA DE LA HOMEOSTASIS GLUCIDICA: SUCNR1, DIANA PARA EL TRATAMIENTO DE LA OBESIDAD Y ENFERMEDADES ASOCIADAS"

Principal Investigator: FERNANDEZ VELEDO, SONIA

Duration: 01/01/2019 - 30/06/2022

Funding entity: MINISTERIO DE ECONOMIA Y COMPETITIVAD

Title: PI18/00037 CAROLINA SERENA

Principal Investigator: SERENA PERELLO, CAROLINA

Duration: 01/01/2019 - 30/06/2022

Funding entity: INSTITUTO CARLOS III

Title: DTS19/00040 PROYECTO DE DESARROLLO TECNOLOGICO EN SALUD- ISCIII - NUEVAS ESTRATEGIAS PROBIOTICAS PAR LA OBESIDAD Y DESARROLLO DE SU KIT DIAGNOSTICO

Principal Investigator: FERNANDEZ VELEDO, SONIA DIAMET

Duration: 01/01/2020 30/06/2022

Funding entity: INSTITUTO CARLOS III

Title: PI18/00516 EJE SUCCINATO/SUCNR1 EN LA DIABETES GESTACIONAL: IMPLICACION DE LA INFLAMACION EN LA FUNCION PLACENTARIA Y SU REPERSUCION EN EL FETO

Principal Investigator: MEGÍA COLET, ANA

Duration: 01/01/2019 - 31/12/2022

Funding entity: INSTITUTO CARLOS III

Title: HR20-00051 RESEARCH 2020 'SUCCINATE/SUCNR1 AXIS: A NOVEL TARGET FOR ANTI-OBESITY THERAPIES'

Principal Investigator: FERNANDEZ VELEDO, SONIA

Duration: 01/12/2020 - 01/12/2023

Funding entity: FUNDACION BANCARIA CAIXA D'ESTALVIS I PENSIONS DE BARCELONA

Title: CB07/08/0012

CIBER

DR.VENDRELL

Principal Investigator: VENDRELL
ORTEGA, JOAN
Duration: 01/01/2008 - 31/12/2025
Funding entity: INSTITUTO CARLOS III

Publicacions científiques

[Impaired Succinate Response to a Mixed Meal in Obesity and Type 2 Diabetes Is Normalized After Metabolic Surgery](#)

Astiarraga B, Martínez L, Ceperuelo-Mallafré V, Llauradó G, Terrón-Puig M, Rodríguez MM, Casajoana A, Pellitero S, Megía A, Vilarrasa N, Vendrell J, Fernández-Veledo S. *Diabetes Care* 2020 Jul 31; FI:16,019 (Q1)

[Adipose tissue is a key organ for the beneficial effects of GLP-2 on glucose metabolism](#)

Ejarque M, Sabadell-Basallote J, Beiroa D, Calvo E, Keiran N, Nuñez-Roa C, Del Mar Rodríguez M, Sabench F, Del Castillo D, Jimenez V, Bosch F, Nogueiras R, Vendrell J, Fernández-Veledo S. *Br J Pharmacol* 2020 Sep 28; FI:7,73 (Q1)

[Gestational diabetes impacts fetal precursor cell responses with potential consequences for offspring.](#)

Algaba-Chueca F, Maymó-Masip E, Ejarque M, Ballesteros M, Llauradó G, López C, Guarque A, Serena C, Martínez-Guasch L, Gutiérrez C, Bosch R, Vendrell J, Megía A, Fernández-Veledo S. *Stem Cells Transl Med* 2020 Mar;9(3):351-363. FI:6,022 (Q1)

[Adipose stem cells from patients with Crohn's disease show a distinctive DNA methylation pattern](#)

Serena C, Millan M, Ejarque M, Saera-Vila A, Maymó-Masip E, Núñez-Roa C, Monfort-Ferré D, Terrón-Puig M, Bautista M, Menacho M, Martí M, Espin E, Vendrell J, Fernández-Veledo S. *Clin Epigenetics* 2020 Apr 6;12(1):53. FI:5,028 (Q1)

[Maternal Obesity Alters Placental Cell Cycle Regulators in the First Trimester of Human Pregnancy: New Insights for BRCA1](#)

Hoch D, Bachbauer M, Pöchlauer C, Algaba-Chueca F, Tandl V, Novakovic B, Megia A, Gauster M, Saffery R, Glasner A, Desoye G, Majali-Martinez A. *Int J Mol Sci* 2020 Jan 11; FI:4,602 (Q2)

[Incidence of diabetes mellitus in Spain as results of the nation-wide cohort di@bet.es study.](#)

Rojo-Martínez G, Valdés S, Soriguer F, Vendrell J, Urrutia I, Pérez V, Ortega E, Ocón P, Montanya E, Menéndez E, Lago-Sampedro A, González-Frutos T, Gomis R, Goday A, García-Serrano S, García-Escobar E, Galán-García JL, Castell C, Badía-Guillén R, Aguilera-Venegas G, Girbés J, Gatzambide S, Franch-Nadal J, Delgado E, Chaves FJ, Castaño L, Calle-Pascual A. *Sci Rep* 2020 Feb 17;10(1). FI:3,998 (Q1)

[Incidence and regression of metabolic syndrome in a representative sample of the Spanish population: results of the cohort di@bet.es study.](#)

Cuesta M, Fuentes M, Rubio M, Bordiu E, Barabash A, Garcia de la Torre N, Rojo-Martinez G, Valdes S, Soriguer F, Vendrell JJ, Urrutia IM, Ortega E, Montanya E, Menendez E, Lago-Sampedro A, Gomis R, Goday A, Castell C, Badia-Guillen R, Girbés J, Gatzambide S, Franch-Nadal J, Delgado Álvarez E, Chaves FJ, Castaño L, Calle-Pascual AL. *BMJ Open Diabetes Res Care* 2020 Oct;8(1). FI:3,742 (Q1)

[Incidence and regression of metabolic syndrome in a representative sample of the Spanish population: results of the cohort di@bet.es study](#)

Cuesta M, Fuentes M, Rubio M, Bordiu E, Barabash A, Garcia de la Torre N, Rojo-Martinez G, Valdes S, Soriguer F, Vendrell JJ, Urrutia IM, Ortega E, Montanya E, Menendez E, Lago-Sampedro A, Gomis R, Goday A, Castell C, Badia-Guillen R, Girbés J, Gatzambide S, Franch-Nadal J, Delgado Álvarez E, Chaves FJ, Castaño L, Calle-Pascual AL. *BMJ Open Diabetes Res Care*. 2020 Oct;8(1):e001715.. FI:3,742 (Q1)

[Changes in Bone Mineral Density in Patients with Type 2 Diabetes After Different Bariatric Surgery Procedures and the Role of Gastrointestinal Hormones](#)

Guerrero-Pérez F, Casajoana A, Gómez-Vaquero C, Virgili N, López-Urdiales R, Hernández-Montoliu L, Pujol-Gebelli J, Osorio J, Alves C, Perez-Maraver M, Pellitero S, Vidal-Alabró A, Fernández-Veledo S, Vendrell J, Vilarrasa N. *Obes Surg* 2020 Jan;30(1):180-188. FI:3,412 (Q1)

Effect of Type 2 Diabetes Mellitus on the Hypoxia-Inducible Factor 1-Alpha Expression. Is There a Relationship with the Clock Genes?

López-Cano C, Gutiérrez-Carrasquilla L, Barbé F, Sánchez E, Hernández M, Martí R, Ceperuelo-Mallafre V, Dalmases M, Fernández-Veledo S, Vendrell J, Hernández C, Simó R, Lecube A. *J Clin Med* 2020 Aug 13;9(8). FI:3,303 (Q1)

Long-Term Effects in Bone Mineral Density after Different Bariatric Procedures in Patients with Type 2 Diabetes: Outcomes of a Randomized Clinical Trial

Guerrero-Pérez F, Casajoana A, Gómez-Vaquero C, Virgili N, López-Urdiales R, Hernández-Montoliu L, Pujol-Gebelli J, Osorio J, Prats A, Vidal-Alabré A, Pérez-Maraver M, Fernández-Veledo S, Vendrell J, Vilarrasa N. *J Clin Med* 2020 Jun 11;9(6). FI:3,303 (Q1)

Microbial Signature in Adipose Tissue of Crohn's Disease Patients

Serena C, Queipo-Ortuño M, Millan M, Sanchez-Alcoholado L, Caro A, Espina B, Menacho M, Bautista M, Monfort-Ferré D, Terrón-Puig M, Núñez-Roa C, Maymó-Masip E, Rodriguez MM, Tinahones FJ, Espin E, Martí M, Fernández-Veledo S, Vendrell J. *J Clin Med* 2020 Jul 31;9(8). FI:3,303 (Q1)

Utility of Insulin Resistance in Estimating Cardiovascular Risk in Subjects with Type 1 Diabetes According to the Scores of the Steno Type 1 Risk Engine

Cano A, Llauradó G, Albert L, Mazarico I, Astiarraga B, González-Sastre M, Martínez L, Fernández-Veledo S, Simó R, Vendrell J, González-Clemente JM. *J Clin Med* 2020 Jul 11;9(7). FI:3,303 (Q1)

Molecular Epidemiology Reveals Low Genetic Diversity among Cryptococcus neoformans Isolates from People Living with HIV in Lima, Peru, during the Pre-HAART Era

van de Wiele N, Neyra E, Firacative C, Gilgado F, Serena C, Bustamante B, Meyer W. *Pathogens* 2020 Aug 18. FI:3,117 (Q1)
Long-term protection of HPV test in women at risk of cervical cancer

Ibáñez R, Roura E, Monfil L, Rodríguez LA, Sardà M, Crespo N, Pascual A, Martí C, Fibla M, Gutiérrez C, Lloveras B, Oliveras G,

Torrent A, Català I, Bosch FX, Bruni L, de Sanjosé S. *PLoS One* 2020 Aug 27. FI:2,74 (Q1)

Permanent postoperative hypoparathyroidism: an analysis of prevalence and predictive factors for adequacy of control in a cohort of 260 patients

Díez JJ, Anda E, Sastre J, Pérez Corral B, Álvarez-Escalá C, Manjón L, Paja M, Sambo M, Santiago Fernández P, Blanco Carrera C, Galofré JC, Navarro E, Zafón C, Sanz E, Oleaga A, Bandrés O, Donnay S, Megía A, Picallo M, Sánchez-Ragnarsson C, Baena-Nieto G, Fernández-García JC, Lecumberri B, Sahún de la Vega M, Romero-Lluch AR, Iglesias P. *Gland Surg* 2020 Oct. FI:2,19 (Q2)

Recovery of parathyroid function in patients with thyroid cancer treated by total thyroidectomy: An analysis of 685 patients with hypoparathyroidism at discharge of surgery

Díez JJ, Anda E, Sastre J, Pérez-Corral B, Álvarez-Escalá C, Manjón L, Paja M, Sambo M, Santiago-Fernández P, Blanco-Carrera C, Galofré JC, Navarro E, Zafón C, Sanz E, Oleaga A, Bandrés O, Donnay S, Megía A, Picallo M, Sánchez-Ragnarsson C, Baena-Nieto G, Fernández-García JC, Lecumberri B, Vega MS, Romero-Lluch AR, Iglesias P. *Endocrinol Diabetes Nutr* 2020 Oct 25:S2530-0164(20)30187-7. FI:1,18 (Q3)

4) Nutrició humana: prevenció i epigenètica



Responsables del grup: Mònica Bullo I Jordi Salas-Salvadó

Línies d'investigació

- Dieta mediterrània i malaltia cardiovascular
- Epidemiologia i salut pública en relació a la nutrició o les malalties de la nutrició.
- Estudis d'intervenció per a conèixer l'efecte de la dieta o dels constituents de la dieta sobre la salut o la malaltia i els mecanismes implicats.
- Estudio de la relació entre l'obesitat, la inflamació i les diferents comorbilitats associades a l'obesitat.
- Identificació de nous biomarcadors per a identificar estratègies de prevenció primària i secundària de malalties cròniques (obesitat, diabetis, malaltia cardiovascular).

Membres del grup

- Responsable de grup: Jordi Salas-Salvadó
- Investigadors/es sènior: Silvia Canudas Puig, Joan Fernández-Ballart, Nancy Babio Sánchez, Michelle Murphy, Marta Guasch Ferre, Josep Basora
- Investigador/a post-doctoral: Pablo Hernández Alonso, Nerea Becerra-Tomás, Anna Tresserra-Rimbau, Andrés Díaz López, Christopher Papandreou, Pere Cavallé-Busquets, María Ángeles Martínez Rodríguez, Albert Salas-Huetos, Rafael Balanzà Roure
- Assistencial: Samira Shig, Núria Guillen Rey, Antoni Rabassa Soler, Antoni Palau

Galindo, Anna Bonada Santjaume, Isabel Megias Rangil, Cristina Mestres Sola
 • Doctorand/a : Tany Elisabeth Garcidueñas Fimbres, Serena Galiè, Lucia Camacho-Barcia, Leyre López González, Laura Barrubés Piñol, Júlia Haro Barceló, Jesús F García-Gavilán, Jananee Muralidharan, Indira Paz Graniel, Carlos Gómez Martínez, Carla Ramos Rodríguez, Anna Gils Contreras, Alessandro Atzeni, Alejandra Rojas Gómez, Núria Rosique Esteban, Guillermo Mena-Sánchez, María Fernández De La Puente Cervera, Cristina Valle Hita
 • Tècnic/a: Sonia Manzanedo Vila, Marianne Mendoza Herrera, Júlia Roig Vallverdú, Clàudia Miñana Garcia, Maribel Dalmau Monterrubio, Oumaima Zine, Ana Peralvo Bernat, Maria Pascual Compte
 • Administratiu/va: Susana Segura Benigno, Carles Munné Cuevas

Projectes Competitius Actius

Title: "PI16/00506 ALTERACIONES GENETICAS Y METABOLICAS EN EL METABOLISMO MONOCARBONADO PATERNO Y DESARROLLO DE COMPLICACIONES DEL EMBARAZO DE ORIGEN PLACENTARIO"

Principal Investigator: MURPHY, MICHELLE

Duration: 01/01/2017 - 31/12/2020

Funding entity: INSTITUTO CARLOS III

Title: PI16/00501 EFECTO DE UNA PERDIDA DE PESO CON DIETA MEDITERRANEA HIPOCALORICA Y PROMOCION DE LA ACTIVIDAD FISICA EN LA PREVENCION PRIMARIA CARDIOVASCULAR: ESTUDIO PREDIMED-PLUS PROYECTO DE INVESTIGACION EN SALUD ISCIII (DR.JORDI SALAS SALVADO)

Principal Investigator: SALAS SALVADO, JORDI
Duration: 01/01/2017 - 31/12/2020
Funding entity: INSTITUTO CARLOS III

Title: 2019/IISPV/03 BOOSTING YOUNG TALENT CALL. PROGRAMA D'AJUTS PER AL DESENVOLUPAMENT DE PROJECTES DE RECERCA IISPV 2019-2021

Principal Investigator: DIAZ LOPEZ, ANDRES

Duration: 01/01/2020 - 31/12/2021

Funding entity: FUNDACIO INSTITUT D'INVESTIGACIÓ SANITÀRIA PERE VIRGILI

Title: UPI- H2020-SFS-2016-2 TOPIC: SFS-38-2016 EFFECTS OF NUTRITION AND LIFESTYLE ON IMPULSIVE, COMPULSIVE, AND EXTERNALIZING BEHAVIOURS (EAT2BENICE)

Principal Investigator: SALAS SALVADO, JORDI

Duration: 01/09/2017 - 31/08/2022

Funding entity: CONSORCIO CENTRO DE INVESTIGACION BIOMEDICA EN RED, MP

Title: PI19/00844 PROYECTOS DE INVESTIGACION EN SALUD INSTITUTO CARLOS III. - INTERACCION ENTRE LA REGULACION PRENATAL NUTRIENTE-GEN, EL TABAQUISMO PARENTAL Y LOS PROCESOS EPIGENETICOS QUE DETERMINAN EL PATRON DE DESARROLLO Y LA SALUD INFANTIL. THE REUS TARRAGONA BIRTH COHORT.

Principal Investigator: MURPHY, MICHELLE

Duration: 01/01/2020 - 31/12/2022

Funding entity: INSTITUTO CARLOS III

Title: PI19/00576 PROYECTOS DE INVESTIGACION EN SALUD INSTITUTO CARLOS III - EFECTO DE UNA INTERVENCION INTENSIVA DE PERDIDA DE PESO CON DIETA MEDITERRANEA HIPOCALORICA, ACTIVIDAD FISICA Y TRATAMIENTO CONDUCTUAL SOBRE LA PREVENCION PRIMARIA CARDIOVASCULAR: ENSAYO PREDIMED-PLUS.

Principal Investigator: SALAS SALVADO, JORDI

Duration: 01/01/2020 - 31/12/2022

Funding entity: INSTITUTO CARLOS III

Title: UPI-SYSTEMS (PRIME) SEP-210574986

Principal Investigator: SALAS SALVADO, JORDI

Duration: 01/01/2020 - 31/12/2024

Funding entity: COMMISSION OF THE EUROPEAN COMMUNITIES

Title: CB07/03/2004 FISITATOLOGIA DE LA OBESIDAD Y NUTRICION

Principal Investigator: SALAS SALVADO, JORDI

Duration: 08/10/2008 - 31/12/2025

Funding entity: INSTITUTO CARLOS III

Publicaciones científicas

[The Mediterranean diet, plasma metabolome, and cardiovascular disease risk](#)

Li J, Guasch-Ferré M, Chung W, Ruiz-Canela M, Toledo E, Corella D, Bhupathiraju SN, Tobias DK, Tabung FK, Hu J, Zhao T, Turman C, Feng YA, Clish CB, Mucci L, Eliassen AH, Costenbader KH, Karlson EW, Wolpin BM, Ascherio A, Rimm EB, Manson JE, Qi L, Martínez-González MA, Salas-Salvadó J, Hu FB, Liang L.. Eur Heart J 2020 Jul 21. Fl:22,673 (Q1)

[Olive Oil Consumption and Cardiovascular Risk in U.S. Adults](#)

Guasch-Ferré M, Liu G, Li Y, Sampson L, Manson JE, Salas-Salvadó J, Martínez-González MA, Stampfer MJ, Willett WC, Sun Q, Hu FB. J Am Coll Cardiol 2020 Apr 21. Fl:20,589 (Q1)

[Remnant Cholesterol, Not LDL Cholesterol, Is Associated With Incident Cardiovascular Disease](#)

Castañer O, Pintó X, Subirana I, Amor AJ, Ros E, Hernández Á, Martínez-González MA, Corella D, Salas-Salvadó J, Estruch R, Lapetra J, Gómez-Gracia E, Alonso-Gómez AM, Fiol M, Serra-Majem L, Corbella E, Benaiges D, Sorli JV, Ruiz-Canela M, Babío N, Sierra LT, Ortega E, Fitó M. J Am Coll Cardiol 2020 Dec 8. Fl:20,589 (Q1)

[Remnant Cholesterol, Not LDL Cholesterol, Is Associated With Incident Cardiovascular Disease.](#)

Castañer O, Pintó X, Subirana I, Amor AJ, Ros E, Hernández Á, Martínez-González MA, Corella D, Salas-Salvadó J, Estruch R, Lapetra J, Gómez-Gracia E, Alonso-Gómez AM, Fiol M, Serra-Majem L, Corbella E, Benaiges D, Sorli JV, Ruiz-Canela M, Babío N, Sierra LT, Ortega E, Fitó M. JACC- J Am Coll Cardiol 2020 Dec 8;76(23):2712-2724. Fl:20,589 (Q1)

[Mediterranean diet, cardiovascular disease and mortality in diabetes: A systematic review and meta-analysis of prospective cohort studies and randomized clinical trials](#)

Becerra-Tomás N, Blanco Mejía S, Vigiliouk E, Khan T, Kendall CWC, Kahleova H, Rahelić D, Sievenpiper JL, Salas-Salvadó J. Crit Rev Food Sci Nutr 2020. FI:7,862 (Q1)

[Mediterranean Diet and Telomere Length: A Systematic Review and Meta-Analysis](#)

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Ischaemic heart disease with or without Frank's sign.

Ramírez R, Perales R, Carulla M, Rodríguez-Borjabad C. Hipertens Riesgo Vasc. 2020; 37:139-140. FI:0,629 (Q3)

5) Plataforma Metabolòmica



Responsable del grup: Xavier Correig Blanchar

Línes d'investigació

- Processat de dades metabolòmiques i identificació de metabòlits per LC-MS i GC-MS. Integració de tecnologies òmiques. Etiquetatge d'isòtops estables i fluxòmica per MS i NMR.
- Imatges d'espectrometria sense marcatge per aplicacions biològiques.
- Processat i anàlisi avançat de dades metabolòmiques per a tècniques analítiques i aplicacions clíniques multidimensionals.
- Metabolòmica per RMN.
- Metabolòmica toxicològica i ambiental.

Membres del grup

- Responsable de grup: Xavier Correig Blanchar
- Investigadors/es sènior: Esteban Del Castillo Pérez, Nicolau Cañellas Alberich, Oscar Yanes Torrado, Jesús Brezmes Llecha, Noelia Ramírez González, María Vinaixa Crevillent, Raquel Cumeras, Pere Ràfols Soler
- Tècnic/a: Laura Massó Estradé, Miriam Navarro Sanz, Josep Mª Badia Aparicio, Pineda Molas Porqueras
- Investigadors/es post-doctoral: Jordi Capellades Tomàs, María García-Altares Pérez

- Doctorand/a: Maria Llambrich Rodriguez, Lluc Sementé Fernández, Gerard Baquer Gómez, Sònia Torres, Alexandra Iakab, Carla-Melissa Merino, Joan Miró, Toufik Mahamdi
- Estudiant en pràctiques: Roger Giné Bertomeu

Projectes Competitius Actius

Title: EIN2019-102898 ACCIONES DE DINAMIZACION 'EUROPA INVESTIGACION 2019'
Principal Investigator: RAMÍREZ GONZÁLEZ, NOELIA
Duration: 01/06/2019 - 31/05/2020
Funding entity: MINISTERIO DE CIENCIA, INNOVACION Y UNIVERSIDADES

Title: CB07/08/0014 CIBER DR.CORREIG
Principal Investigator: CORREIG BLANCHAR, XAVIER
Duration: 01/01/2008 - 31/12/2025
Funding entity:

Publicacions científiques

[Endogenous retroelement activation by epigenetic therapy reverses the Warburg effect and elicits mitochondrial-mediated cancer cell death](#)

Fresquet V, Garcia-Barchino MJ, Larrayoz MJ, Celay J, Vicente C, Fernandez-Galilea M, Larrayoz MJ, Calasanz MJ, Panizo C, Junza A, Han J, Prior C, Fortes P, Pio R, Oyarzabal J, Martínez-Baztán A, Paiva B, Moreno-Aliaga MJ, Odero MD, Agirre X, Yanes O, Prósper F, Martinez-Climent JA. Cancer Discovery 2020 Dec 19. FI:29,497 (Q1)

[Gold Nanoparticle-Assisted Black Silicon Substrates for Mass Spectrometry Imaging Applications](#)

Iakab SA, Ràfols P, Tajes M, Correig-Blanchar X, García-Altares M. ACS Nano 2020 Jun 23. FI:14,588 (Q1)

[Environmental arginine controls multinuclear giant cell metabolism and formation](#)

Brunner JS, Vulliard L, Hofmann M, Kieler M, Lercher A, Vogel A, Russier M, Brüggenthies JB, Kerndl M, Saferding V, Niederreiter B, Junza A, Frauenstein A, Scholtysek C, Mikami Y, Klavins K, Krönke G, Bergthaler

A, O'Shea JJ, Weichhart T, Meissner F, Smolen JS, Cheng P, Yanes O, Menche J, Murray PJ, Sharif O, Blüml S, Schabbauer G. *Nat Commun* 2020 Jan 22. FI:12,121 (Q1)

Nucleotide depletion reveals the impaired ribosome biogenesis checkpoint as a barrier against DNA damage

Pelletier J, Riaño-Canalias F, Almacellas E, Mauvezin C, Samino S, Feu S, Menoyo S, Domostegui A, Garcia-Cajide M, Salazar R, Cortés C, Marcos R, Tauler A, Yanes O, Agell N, Kozma SC, Gentilella A, Thomas G. *EMBO J* 2020 Jul 1. FI:9,889 (Q1)

Post-translational regulation of retinal IMPDH1 in vivo to adjust GTP synthesis to illumination conditions

Plana-Bonamaisó A, López-Begines S, Fernández-Justel D, Junza A, Soler-Tapia A, Andilla J, Loza-Alvarez P, Rosa JL, Miralles E, Casals I, Yanes O, de la Villa P, Buey RM, Méndez A. *Elife* 2020 Apr 7. FI:7,08 (Q1)

Chemical changes in thirdhand smoke associated with remediation using an ozone generator.

Tang X, Ramírez Gonzalez N, Russell ML, Maddalena RL, Gundel LA, Destaillats H. *Environmental Research* 2020. FI:5,715 (Q1)

rMSIproc: an R package for mass spectrometry imaging data processing

Ràfols P, Heijs B, Del Castillo E, Yanes O, McDonnell LA, Brezmes J, Pérez-Taboada I, Vallejo M, García-Altares M, Correig X. *Bioinformatics* 2020 Jun 1. FI:5,61 (Q1)

Gelsolin: a new biomarker of disease activity in SLE patients associated with HDL-c

Parra S, Heras M, Herrero P, Amigó N, Garcés E, Girona J, Correig X, Canela N, Castro A. *Rheumatology (Oxford)* 2020 Mar 1. FI:5,606 (Q1)

rMSIcleanup: an open-source tool for matrix-related peak annotation in mass spectrometry imaging and its application to silver-assisted laser desorption/ionization

Baquer G, Sementé L, García-Altares M, Lee YJ, Chaurand P, Correig X, Ràfols P. *J Cheminform* 2020 Jul 22. FI:5,326 (Q1)

Habitual Fish Consumption, n-3 Fatty Acids, and Nuclear Magnetic Resonance Lipoprotein Subfractions in Women

Amigó N, Akinkuolie AO, Chiuve SE, Correig X, Cook NR, Mora S. *J Am Heart Assoc* 2020 Mar 3. FI:4,605 (Q1)

Activation of glycogenolysis and glycolysis in breast cancer stem cell models

Abad E, Samino S, Yanes O, Potesil D, Zdrahal Z, Lyakhovich A. *Biochim Biophys Acta Mol Basis Dis* 2020 Oct 1. FI:4,352 (Q1)

Bariatric surgery decreases oxidative stress and protein glycosylation in patients with morbid obesity

Carmona-Maurici J, Amigó N, Cuello E, Bermúdez M, Baena-Fustegueras JA, Peinado-Onsurbe J, Pardina E. *Eur J Clin Invest* 2020 Nov. FI:3,481 (Q1)

Glycoprotein Profile Assessed by (1)H-NMR as a Global Inflammation Marker in Patients with HIV Infection. A Prospective Study

Malo AI, Rull A, Girona J, Domingo P, Fuertes-Martín R, Amigó N, Rodríguez-Borjabad C, Martínez-Micaelo N, Leal M, Peraire J, Correig X, Vidal F, Masana L. *J Clin Med* 2020 May 4. FI:3,303 (Q1)

Plasma Metabolomic Profiling Associates Bicuspid Aortic Valve Disease and Ascending Aortic Dilation with a Decrease in Antioxidant Capacity

Martínez-Micaelo N, Ligero C, Antequera-González B, Junza A, Yanes O, Alegret JM. *J Clin Med* 2020 Jul 13. FI:3,303 (Q1)

GlycA Levels during the Earliest Stages of Rheumatoid Arthritis: Potential Use as a Biomarker of Subclinical Cardiovascular Disease

Rodríguez-Carrio J, Alperi-López M, López P, Pérez-Álvarez Ál, Gil-Serret M, Amigó N, Ulloa C, Benavente L, Ballina-García FJ, Suárez A. *J Clin Med* 2020 Aug 1. FI:3,303 (Q1)

Plasma Metabolomic Profiling Associates Bicuspid Aortic Valve Disease and Ascending Aortic Dilation with a Decrease in Antioxidant Capacity.

Martínez-Micaelo N, Ligero C, Antequera-González B, Junza A, Yanes O, Alegret JM.. *J. Clin. Med.* 2020 9(7). FI:3,303 (Q1)

Raman2imzML converts Raman imaging data into the standard mass spectrometry imaging format

Iakab SA, Sementé L, García-Altares M, Correig X, Ràfols P. BMC Bioinformatics 2020 Oct 9. FI:3,242 (Q1)

Exhaled volatile organic compounds analysis in clinical pediatrics: a systematic review.

Sola Martínez RA, Pastor Hernández JM, Yanes Torrado Ó, Cánovas Díaz M, de Diego Puente T, Vinaixa Crevillent M. Pediatr Res 2020 Sep 12. FI:2,747 (Q1)

6) Unitat de recerca en lípids i arteriosclerosi (URLA)



Responsable del grup: Lluís Masana Marín

Línes d'investigació

- Hipercolesterolemia Familiar.
- Metabolisme lipoproteic, arteriosclerosis, diabetes.
- Miocardiopatia diabética
- Vesícules extracel·lulars i malalties cardiovasculars i metabòliques
- Característiques aterogèniques de les lipoproteïnes
- Genètica i epigenètica de les dislipèmies i risc vascular
- Dislipèmia, paret vascular i malalties reumatològiques
- Metabolisme lipídic i càncer (col·laboració amb Oncologia)

Membres del grup

- Responsable de grup: Lluís Masana Marín
- Investigadors/es sénior: Núria Plana Gil, Josep Ribalta Vives, Joan Carles Vallvé Torrente, Josefa Girona Tell, Montserrat Guardiola Guionnet
- Investigadors/es post-doctoral: Daiana Ibarretxe Guerediaga, Ricardo Rodríguez Calvo, Neus Martínez Micaelo, Iris Oliva Rodríguez, Jordi Merino Ribas
- Tècnic/a laboratori: Yaiza Esteban Romero, Roser Rosales Ribas
- Doctorand/a: Celia Rodríguez Borjabad, Juan Moreno Vedia, Pere Rehues Masip, Ana Irene Malo Cerisuelo
- Tècnic/a administratiu/va: Sílvia Solé i Chancho

Projectes Competitius Actius

Title: PI16/00507 ANALISIS LIPIDICO AVANZADO PARA UNA MEJOR PREDICCIÓN DEL DESARROLLO DE DIABETES TIPO 2 Y EVENTOS CARDIOVASCULARES: ESTUDIO TRANSVERSAL Y LONGITUDINAL DE LA COHORTE DI@BET.ES (DR. RIBALTA) PROYECTO DE INVESTIGACIÓN DE SALUD

Principal Investigator: RIBALTA VIVES, JOSEP

Duration: 01/01/2017 - 30/06/202

Funding entity: INSTITUTO CARLOS III

Title: PI18/00515 LIPIDOMICA POR RMN DE LAS LIPOPROTEINAS ATEROGENAS NO LDL EN PACIENTES CON DISLIPEMIA. IMPACTO SOBRE COMPLICACIONES VASCULARES Y METABOLICAS

Principal Investigator: GIRONA TELL, JOSEFA

Duration: 01/01/2019 - 31/12/2022

Funding entity: INSTITUTO CARLOS III

Title: PI19/00832 PROYECTOS DE INVESTIGACION EN SALUD INSTITUTO CARLOS III - ESTUDIO EPIGENETICO PARA LA MEJORA DEL DIAGNOSTICO GENETICO DE LAS HIPERLIPEMIAS FAMILIARES

Principal Investigator: GUARDIOLA GUIONNET, MONTSERRAT

Duration: 01/01/2020 - 31/12/2022

Funding entity: INSTITUTO CARLOS III

Title: CB07/08/0028 CIBER DIABETIS I MALATIES METABOLIQUES ASOCIADES

Principal Investigator: MASANA MARIN, LLUIS

Duration: 01/01/2008 - 31/12/2025

Funding entity: INSTITUTO CARLOS III

Publicacions científiques

[Human postprandial responses to food and potential for precision nutrition](#)

Berry SE, Valdes AM, Drew DA, Asnicar F, Mazidi M, Wolf J, Capdevila J, Hadjigeorgiou G, Davies R, Al Khatib H, Bonnett C, Ganesh S, Bakker E, Hart D, Mangino M, Merino J, Linenberg I, Wyatt P, Ordovas JM, Gardner CD, Delahanty LM, Chan AT, Segata N,

Franks PW, Spector TD. Nat Med 2020;26:964-973. FI:36,13 (Q1)

Low-density lipoproteins cause atherosclerotic cardiovascular disease: pathophysiological, genetic, and therapeutic insights: a consensus statement from the European Atherosclerosis Society Consensus Panel

Borén J, Chapman MJ, Krauss RM, Packard CJ, Bentzon JF, Binder CJ, Daemen MJ, Demer LL, Hegele RA, Nicholls SJ, Nordestgaard BG, Watts GF, Bruckert E, Fazio S, Ference BA, Graham I, Horton JD, Landmesser U, Laufs U, Masana L, Pasterkamp G, Raal FJ, Ray KK, Schunkert H, Taskinen MR, van de Sluis B, Wiklund O, Tokgozoglu L, Catapano AL, Ginsberg HN.. Eur Heart J 2020; 41:2313-2330. FI:22,673 (Q1)

[LDL Receptor Regulates the Reverse Transport of Macrophage-Derived Unesterified Cholesterol via Concerted Action of the HDL-LDL Axis: Insight From Mouse Models](#)

Cedó L, Metso J, Santos D, García-León A, Plana N, Sabate-Soler S, Rotllan N, Rivas-Urbina A, Méndez-Lara KA, Tondo M, Girona J, Julve J, Pallarès V, Benítez-Amaro A, Llorente-Cortes V, Pérez A, Gómez-Coronado D, Ruotsalainen AK, Levonen AL, Sanchez-Quesada JL, Masana L, Kovanen PT, Jauhainen M, Lee-Rueckert M, Blanco-Vaca F, Escolà-Gil JC. Circ Res 2020; 127:778-792. FI:14,467 (Q1)

[Genetic Confirmation of Monogenic Familial Hypercholesterolemia Advises a More Intensive Lipid-Lowering Approach](#)

Guíjarro C, Civeira F, Masana L.. JAMA Cardiol 2020; en premsa. FI:12,794 (Q1)

[Mendelian Randomization Study of Obesity and Cerebrovascular Disease](#)

Marini S, Merino J, Montgomery BE, Malik R, Sudlow CL, Dichgans M, Florez JC, Rosand J, Gill D, Anderson CD. Ann Neurol. 2020;87:516-524. FI:9,037 (Q1)

[Interaction Between Type 2 Diabetes Prevention Strategies and Genetic Determinants of Coronary Artery Disease on Cardiometabolic Risk Factors](#)

Merino J, Jablonski KA, Mercader JM, Kahn SE, Chen L, Harden M, Delahanty LM, Araneta MRG, Walford GA, Jacobs

SBR, Ibebuogu UN, Franks PW, Knowler WC, Florez JC; Diabetes Prevention Program Research Group. Diabetes 2020;69:112-120. FI:7,72 (Q1)

[LDL Cholesterol and Dysglycemia: an Intriguing Physiological Relationship](#)
Merino J, Rotter JI.. Diabetes 2020;69:2058-2060. FI:7,72 (Q1)

[EFFECT oF STATIN THERAPY oN SARS-CoV-2 INFECTION-RELATED](#)

Masana L, Correig E, Rodríguez-Borjabad C, Anoro E, Arroyo JA, Jericó C, Pedragosa A, Miret M, Näf S, Pardo A, Perea V, Pérez-Bernalte R, Plana N, Ramírez-Montesinos R, Royuela M, Soler C, Urquiza-Padilla M, Zamora A, Pedro-Botet J, Group OBOTS.. Eur Heart J Cardiovasc Pharmacother 2020; en premsa. FI:6,696 (Q1)

Activation of nuclear factor-kappa B subunits c-Rel, p65 and p50 by plasma lipids and fatty acids across the menstrual cycle.

Faustmann G, Tiran B, Trajanoski S, Obermayer-Pietsch B, Gruber HJ, Ribalta J, Roob JM, Winklhofer-Roob BM. Free Radic. Biol. Med. 2020;160:488-500. FI:6,17 (Q1)

[EU-Wide Cross-Sectional Observational Study of Lipid-Modifying Therapy Use in Secondary and Primary Care: the DA VINCI study](#)

Ray KK, Moelmans B, Schoonen WM, Giovas P, Bray S, Kiru G, Murphy J, Banach M, De Servi S, Gaita D, Gouni-Berthold I, Hovingh GK, Jozwiak JJ, Jukema JW, Kiss RG, Kownator S, Iversen HK, Maher V, Masana L, Parkhomenko A, Peeters A, Clifford P, Raslova K, Siostrzonek P, Romeo S, Tousoulis D, Vlachopoulos C, Vrablik M, Catapano AL, Poulter NR. Eur J Prev Cardiol. 2020; en premsa. FI:5,864 (Q1)

[Polygenic Markers in Patients Diagnosed of Autosomal Dominant Hypercholesterolemia in Catalonia: Distribution of Weighted LDL-c-Raising SNP Scores and Refinement of Variant Selection](#)

Martín-Campos JM, Ruiz-Nogales S, Ibarretxe D, Ortega E, Sánchez-Pujol E, Royuela-Juncadella M, Vila À, Guerrero C, Zamora A, Soler I, Ferrer C, Arroyo JA, Carreras G, Martínez-Figueroa S, Roig R, Plana N, Blanco-Vaca F, Xarxa d'Unitats de Lípids i Arteriosclerosi Xula.. Biomedicines 2020; 8:E353. FI:4,757 (Q1)

Clinical and genetic differences between heterozygous familial hypercholesterolemia patients with and without type 2 diabetes

Climent E, Pérez-Calahorra S, Benaiges D, Pintó X, Suárez-Tembra M, Plana N, Sánchez-Hernández RM, Valdivielso P, Ascaso JF, Pedro-Botet J.. Rev Esp Cardiol (Engl Ed) 2020; 73:718-724. FI:4,642 (Q1)

Recommendations to improve lipid control. Consensus document of the Spanish Society of Cardiology

Escobar C, Anguita M, Arrarte V, Barrios V, Cequier Á, Cosín-Sales J, Egocheaga I, López de Sa E, Masana L, Pallarés V, Pérez de Isla L, Pintó X. Rev Esp Cardiol. 2020;73:161-167. FI:4,642 (Q1)

Hypercholesterolemia and cardiovascular disease: Focus on high cardiovascular risk patients

Watts GF, Catapano AL, Masana L, Zambon A, Pirillo A, Tokgozoglu L. Atheroscler Suppl 2020; 42:e30-e34. FI:3,968 (Q2)

Lipid-lowering therapy and low-density lipoprotein cholesterol goal achievement in patients with acute coronary syndromes: The ACS patient pathway project

Landmesser U, Pirillo A, Farnier M, Jukema JW, Laufs U, Mach F, Masana L, Pedersen TR, Schiele F, Steg G, Tubaro M, Zaman A, Zamorano P, Catapano AL. Atheroscler Suppl 2020; 42:e49-e58. FI:3,968 (Q2)

Hepatic Lipidomics and Molecular Imaging in a Murine Non-Alcoholic Fatty Liver Disease Model: Insights into Molecular Mechanisms

Rodríguez-Calvo R, Samino S, Girona J, Martínez-Micuelo N, Ráfols P, García-Altares M, Guaita-Esteruelas S, Junza A, Heras M, Yanes O, Correig X, Masana L. Biomolecules 2020; E1275. FI:3,935 (Q2)

Derivation and validation of SIDIAP-FHP score: A new risk model predicting cardiovascular disease in familial hypercholesterolemia phenotype

Ramos R, Masana L, Comas-Cufí M, García-Gil M, Martí-Lluch R, Ponjoan A, Plana N, Alves-Cabrataosa L, Marrugat J, Elosua R, Dégano IR, Gomez-Marcos MA, Zamora A. Atherosclerosis 2020;292:42-51. FI:3,919 (Q1)

Practice of lipoprotein apheresis and short-term efficacy in children with homozygous familial hypercholesterolemia: Data from an international registry

Luirink IK, Hutton BA, Greber-Platzer S, Kolovou GD, Dann EJ, de Ferranti SD, Taylan C, Bruckert E, Saheb S, Oh J, Driemeyer J, Farnier M, Pape L, Schmitt CP, Novoa FJ, Maeser M, Masana L, Shahraní A, Wiegman A, Groothoff JW. Atherosclerosis 2020; 299:24-31. FI:3,919 (Q1)

Evaluation of the chylomicron-TG to VLDL-TG ratio for type I hyperlipoproteinemia diagnostic

Rioja J, Ariza MJ, García-Casares N, Coca-Prieto I, Arrobas T, Muñiz-Grijalvo O, Mangas A, Ibarretxe D, Sánchez-Chaparro MÁ, Valdivielso P. Eur J Clin Invest 2020; 50: e13345. FI:3,481 (Q1)

Title: Human Serum/Plasma Glycoprotein Analysis by 1H-NMR, an Emerging Method of Inflammatory Assessment.

Fuertes-Martín R, Correig X, Vallvé JC, Amigó N.. J Clin Med. 2020; 9:354. FI:3,303 (Q1)

Overall Mortality and LDL Cholesterol Reduction in Secondary Prevention Trials of Cardiovascular Disease

Pedro-Botet J, López-Miranda J, Badimón L, Civeira F, Guijarro C, Millán J, Mostaza JM, Pintó X, Valdivielso P, Masana L. Am J Cardiovasc Drugs. 2020;20:325-332. FI:2,674 (Q1)

Reasons Why Combination Therapy Should Be the New Standard of Care to Achieve the LDL-Cholesterol Targets : Lipid-lowering combination therapy

Masana L, Ibarretxe D, Plana N. Curr Cardiol Rep 2020; 22:66. FI:2,434 (Q2)

Precipitated sdLDL: An easy method to estimate LDL particle size

Fernández-Cidón B, Candás-Estébanez B, Ribalta J, Rock E, Guardiola-Guionnet M, Amigó N, Padró-Miquel A, Alía-Ramos P, Pintó-Sala X. J Clin Lab Anal. 2020;34:e23282. FI:1,54 (Q2)

Clinical profile of patients treated with evolocumab in lipid/internal medicine units

of Spain. Observational study (RETOSS-IMU)

Masana L, López Miranda J, Civeira F, Reinares L, Guijarro C, Plana N, Cuenca R, Sánchez D, Hernández JL, Andrés R, Blanco A, Villamayor S. Clin Investig Arterioscler 2020; 32:183-192. FI:1,182 (Q3)

Consensus document of an expert group from the Spanish Society of Arteriosclerosis (SEA) on the clinical use of nuclear magnetic resonance to assess lipoprotein metabolism (Liposcale®)

Pintó X, Masana L, Civeira F, Real J, Ibarretxe D, Candas B, Puzo J, Díaz JL, Amigó N, Esteban M, Valdivielso P. Clin Investig Arterioscler 2020; 32:219-229. FI:1,182 (Q3)

Plasma glucose, triglycerides, VLDL, leptin and resistin levels as potential biomarkers for myocardial fat in mice

Rodríguez-Calvo R, Samino S, Guaita-Esteruelas S, Martínez-Micaelo N, Heras M, Girona J, Yanes O, Correig X, Masana L. Clin Investig Arterioscler 2020; 32:8-14. FI:1,182 (Q3)

Efficacy of therapeutic lifestyle changes on lipid profiles assessed by NMR in children with familial and non-familial hypercholesterolemia

Rodríguez-Borjabad C, Malo AI, Ibarretxe D, Girona J, Heras M, Ferré R, Feliu A, Salvadó M, Varela A, Amigó N, Masana L, Plana N. Clin Investig Arterioscler. 2020;32:49-58. FI:1,182 (Q3)

Ischaemic heart disease with or without Frank's sign.

Ramírez R, Perales R, Carulla M, Rodríguez-Borjabad C. Hipertens Riesgo Vasc. 2020; 37:139-140. FI:0,629 (Q3)

**7) Unitat de recerca en pediatria,
nutrició i desembolupament humà
(URPNDH)**



Línies d'investigació

- Nutrició i metabolisme infantil
- Gastroenterologia i nutrició
- Funció pulmonar i infeccions a l'edat pediàtrica
- Medicina basada en l'evidència

Membres del grup

- Responsable de grup: Ricardo Closa Monasterolo, Joaquín Escribano Subias
- Investigadors/es post-doctoral: Ester Parada Ricart, Verònica Luque Moreno, Albert Feliu Rovira, Rosa Collell Hernández, M. Carmen Rubio Torrents, Marta Zaragoza Jordana, Mariona Gispert Llauradó, Natàlia Ferré Pallàs, Javier Rodríguez Fanjul
- Doctorand/a: Gemma Castillejo de Villasante, Judit Muñoz Hernando, Mireia Alcázar López, Mercè Nuñez Roig, Neus Rius Gordillo, Susana Larrosa Capaces, Elisabet Camprubí Tubella, David Medina Santamaría
- Assistencial: Adolfo Gómez Papi

Projectes Competitius Actius

Title: PI18/00226 EFECTO DE UN INTERVENCION MOTIVACIONAL SOBRE

LA MICROBIOTA INTESTINAL Y LOS COMPONENTES DEL SINDROME METABOLICO EN UNA POBLACION OBESA PEDIATRICA: MICROBEKIDS.

Principal Investigator: LUQUE MORENO, VERONICA

Duration: 01/01/2019 - 31/12/2022

Funding entity: INSTITUTO CARLOS III

Publicacions científiques

DNA methylation and body mass index from birth to adolescence: meta-analyses of epigenome-wide association studies.

Vehmeijer FOL, Küpers LK, Sharp GC, Salas LA, Lent S, Jima DD, Tindula G, Reese S, Qi C, Gruzieva O, Page C, Rezwan FI, Melton PE, Nohr E, Escaramís G, Rzehak P, Heiskala A, Gong T, Tuominen ST, Gao L, Ross JP, Starling AP, Holloway JW, Yousefi P, Aasvang GM, Beilin LJ, Bergström A, Binder E, Chatzi L, Corpelein E, Czamara D, Eskenazi B, Ewart S, Ferre N, Grote V, Grusfeld D, Håberg SE, Hoyo C, Huen K, Karlsson R, Kull I, Langhendries JP, Lepeule J, Magnus MC, Maguire RL, Molloy PL, Monnereau C, Mori TA, Oken E, Räikkönen K, Rifas-Shiman S, Ruiz-Arenas C, Sebert S, Ullemar V, Verduci E, Vonk JM, Xu CJ, Yang IV, Zhang H, Zhang W, Karmaus W, Dabelea D, Muhlhausler BS, Breton CV, Lahti J, Almqvist C, Jarvelin MR, Koletzko B, Vrijheid M, Sørensen TIA, Huang RC, Arshad SH, Nystad W, Melén E, Koppelman GH, London SJ, Holland N, Bustamante M, Murphy SK, Hivert MF, Baccarelli A, Relton CL, Snieder H, Jaddoe VWV, Felix JF.. Genome Med. 2020 Nov 25;12(1):105.. FI:10,675 (Q1)

Mendelian randomization analysis does not support causal associations of birth weight with hypertension risk and blood pressure in adulthood

Zheng Y, Huang T, Wang T, Mei Z, Sun Z, Zhang T, Ellervik C, Chai JF, Sim X, van Dam RM, Tai ES, Koh WP, Dorajoo R, Saw SM, Sabanayagam C, Wong TY, Gupta P, Rossing P, Ahluwalia TS, Vinding RK, Bisgaard H, Bønnelykke K, Wang Y, Graff M, Voortman T, van Rooij FJA, Hofman A, van Heemst D, Noordam R, Estampador AC, Varga TV, Enzenbach C, Scholz M, Thiery J, Burkhardt R, Orho-Melander M, Schulz CA, Ericson U, Sonestedt E, Kubo M, Akiyama

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[Novel loci for childhood body mass index and shared heritability with adult cardiometabolic traits](#)

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[Fibre Intake Is Associated with Cardiovascular Health in European Children.](#)

Larrosa S, Luque V, Grote V, Closa-Monasterolo R, Ferré N, Koletzko B, Verduci E, Grusfeld D, Xhonneux A, Escribano J. Nutrients 2020 Dec 23;13(1):12.. Fl:4,777 (Q1)

[Associations of sugar intake with anthropometrics in children from ages 2 until 8 years in the EU Childhood Obesity Project](#)
Aumueller N, Grusfeld D, Gradowska K, Escribano J, Ferré N, Rousseaux D, Hoyos J, Verduci E, ReDionigi A, Koletzko B, Grote V. Eur J Nutr 2020 Sep. Fl:4,664 (Q1)

[Commercial complementary food use amongst European infants and children: results from the EU Childhood Obesity Project](#)

Theurich MA, Zaragoza-Jordana M, Luque V, Grusfeld D, Gradowska K, Xhonneux A, Riva E, Verduci E, Poncelet P, Damianidi L, Koletzko B, Grote V. Eur J Nutr. 2020 Jun;59(4):1679-1692.. Fl:4,664 (Q1)

[Impact of infant protein supply and other early life factors on plasma metabolome at 5.5 and 8 years of age: a randomized trial](#)
Kirchberg FF, Hellmuth C, Totzauer M, Uhl O, Closa-Monasterolo R, Escribano J, Grusfeld D, Gradowska K, Verduci E, Mariani B, Moretti M, Rousseaux D, Koletzko B. int J Obes (Lond). 2020 Jan;44(1):69-81.. Fl:4,419 (Q1)

[Breast-Milk Microbiota Linked to Celiac Disease Development in Children: A Pilot Study From the PreventCD Cohort.](#)

Benítez-Páez A, Olivares M, Szajewska H, Pieścik-Lech M, Polanco I, Castillejo G, Nuñez M, Ribes-Koninckx C, Korponay-Szabó IR, Koletzko S, Meijer CR, Mearin ML, Sanz Y. Front Microbiol. 2020 Jun 23;11:1335.. Fl:4,236 (Q1)

[European Society Paediatric Gastroenterology, Hepatology and Nutrition Guidelines for Diagnosing Coeliac Disease](#)

Husby S, Koletzko S, Korponay-Szabó I, Kurppa K, Mearin ML, Ribes-Koninckx C, Shamir R, Troncone R, Auricchio R, Castillejo G, Christensen R, Dolinsek J, Gillett P, Hróbjartsson A, Koltai T, Maki M, Nielsen SM, Popp A, Størdal K, Werkstetter K, Wessels M, LifeCycle Project Group.. J Pediatr Gastroenterol Nutr 2020 Jan;70(1):141-156. Fl:2,937 (Q1)

Effects of screen time and playing outside on anthropometric measures in preschool aged children

Schwarzfischer P, Grusfeld D, Socha P, Luque V, Closa-Monasterolo R, Rousseaux D, Moretti M, ReDionigi A, Verduci E, Koletzko B, Grote V.. PLoS One 2020 Mar 2. FI:2,74 (Q1)

Recommendations of the Spanish Society of Paediatric Cardiology and Congenital Heart Disease as regards the use of drugs in attention deficit hyperactivity disorder in children and adolescents with a known heart disease, as well as in the general paediatr

Pérez-Lescure Picarzo J, Centeno Malfaz F, Collell Hernández R, CrespoMarcos D, Fernández Soria T, Manso García B, Rojo Sombrero H, Sabaté Rotés A, Sarquella-Brugada G. An Pediatr (Barc) 2020 Feb;92(2):109.e1-109.e7. FI:1,313 (Q3)

An Infant Formula with Partially Hydrolyzed Whey Protein Supports Adequate Growth and Is Safe and Well-Tolerated in Healthy, Term Infants: A Randomized, Double-Blind, Equivalence Trial

Picaud JC, Pajek B, Arciszewska M, Tarczón I, Escrivano J, Porcel R, Adelt T, Hassink E, Rijnierse A, Abrahamse-Berkeveld M, Korczowski B, On Behalf Of The Tenuto Study Group. Nutrients. 2020 Jul 13;12(7):2072. FI:4,777 (Q1)

8) Grup de recerca en Nutrició Funcional, Oxidació i Malalties Cardiovasculars



Responsable del grup: Rosa Solà Alberich

Línies d'investigació

- Estudis d'intervenció nutricional d'acord amb els criteris de qualitat nutricional i científica CONSORT, STROBE, PRISMA, TIDIER, etc; i les normes ètiques adequades, en persones sanes i afectes de diverses patologies com les alteracions dels lípids, la hipertensió arterial, etc.
- Estudis d'intervenció nutricional en models animals sans i efectes de diverses patologies com la síndrome metabòlica.
- Estudis de marcadors de diagnòstic, funcionalitat i mecanismes d'acció: d'estress oxidatiu, inflamació, etc., tant en cultius cel·lulars in vitro com en models d'animals d'experimentació i humans in vivo.
- Estudis de marcadors de consum i biodisponibilitat en animals d'experimentació i humans.
- Estudis toxicològics in vitro i in vivo.
- Estudis d'educació per a la salut en estils de vida saludable (nutrició i activitat física) a les escoles d'educació primària i secundària, i en altres àmbits de la comunitat.

Membres del grup

- Responsable de grup: Rosa Solà Alberich

- Investigador/es sènior: Montserrat Giralt Batista, Maria Rosa Nogués Llort, Marta Romeu Ferran, Rosa M. Valls Zamora

- Investigador/a post-doctoral: Núria Taltavull Anglada, Lucía Tarro Sánchez, Anna Pedret Figerola, Elisabet Llauradó Ribé, Úrsula Catalán Santos

- Doctorand/a: Lorena Calderón Pérez, Judit Companys Alemany, Bernat Miralles Pérez, Laura Pla Pagà, Berner Andrée, Sandoval Ramírez, Floriana Mandracchia, Patricia Salamanca Gonzalez, María de la Serra Besora Moreno, Judit Queral Añó

- Tècnic/a: Vanessa Sánchez Martos

Publicacions científiques

[The effects and associations of whole-apple intake on diverse cardiovascular risk factors. A narrative review](#)

Sandoval-Ramírez BA, Catalán Ú, Calderón-Pérez L, Companys J, Pla-Pagà L, Ludwig IA, Romero MP, Solà R. Crit Rev Food Sci Nutr 2020. FI:7,862 (Q1)

[Fermented dairy foods rich in probiotics and cardiometabolic risk factors: a narrative review from prospective cohort studies](#)

Companys J, Pedret A, Valls RM, Solà R, Pascual V. Crit Rev Food Sci Nutr 2020 May 21:1-10. FI:7,862 (Q1)

[Fermented Dairy Products, Probiotic Supplementation, and Cardiometabolic Diseases: A Systematic Review and Meta-analysis](#)

Companys J, Pla-Pagà L, Calderón-Pérez L, Llauradó E, Solà R, Pedret A, Valls RM. Adv Nutr 2020 Jul 1. FI:7,265 (Q1)

[Cyanidin-3-glucoside as a possible biomarker of anthocyanin-rich berry intake in body fluids of healthy humans: a systematic review of clinical trials](#)

Sandoval-Ramírez BA, Catalán Ú, Fernández-Castillejo S, Pedret A, Llauradó E, Solà R. Nutr Rev 2020 Jul 1. FI:6,5 (Q1)

[Exploring the effects of phenolic compounds to reduce intestinal damage and improve the intestinal barrier integrity: A systematic review of in vivo animal studies](#)

Sandoval-Ramírez BA, Catalán Ú, Pedret A, Valls RM, Motilva MJ, Rubió L, Solà R. Clin Nutr 2020 Oct 15:S0261-5614(20)30499-4. FI:6,36 (Q1)

Exploring the effects of phenolic compounds to reduce intestinal damage and improve the intestinal barrier integrity: A systematic review of in vivo animal studies.

Sandoval-Ramírez BA, Catalán Ú, Pedret A, Valls RM, Motilva MJ, Rubió L, Solà R. Clin Nutr. 2020 Oct 15. FI:6,36 (Q1)

Proteomic Analysis of Heart and Kidney Tissues in Healthy and Metabolic Syndrome Rats after Hesperidin Supplementation
Pla-Pagà L, Guirro M, Gual-Grau A, Gibert-Ramos A, Foguet-Romero E, Catalán Ú, Mayneris-Perxachs J, Canela N, Valls RM, Arola L, Solà R, Pedret A. Mol Nutr Food Res 2020 May. FI:5,309 (Q1)

Impact of Phenol-Enriched Virgin Olive Oils on the Postprandial Levels of Circulating microRNAs Related to Cardiovascular Disease

Daimiel L, Micó V, Valls RM, Pedret A, Motilva MJ, Rubió L, Fitó M, Farrás M, Covas MI, Solà R, Ordovás JM. Mol Nutr Food Res 2020 Aug. FI:5,309 (Q1)

Social and Economic Factors and Malnutrition or the Risk of Malnutrition in the Elderly: A Systematic Review and Meta-Analysis of Observational Studies
Besora-Moreno M, Llauradó E, Tarro L, Solà R. Nutrients 2020 Mar 11. FI:4,777 (Q1)

Phenol-Enriched Virgin Olive Oil Promotes Macrophage-Specific Reverse Cholesterol Transport In Vivo

Cedó L, Fernández-Castillejo S, Rubió L, Metso J, Santos D, Muñoz-Aguayo D, Rivas-Urbina A, Tondo M, Méndez-Lara KA, Farràs M, Jauhainen M, Motilva MJ, Fitó M, Blanco-Vaca F, Solà R, Escolà-Gil JC. Biomedicines 2020 Aug 3. FI:4,757 (Q1)

Mobile Phone Apps for Food Allergies or Intolerances in App Stores: Systematic Search and Quality Assessment Using the Mobile App Rating Scale (MARS)

Mandracchia F, Llauradó E, Tarro L, Valls RM, Solà R. JMIR Mhealth Uhealth 2020 Sep 16. FI:4,313 (Q1)

Gut metagenomic and short chain fatty acids signature in hypertension: a cross-sectional study

Calderón-Pérez L, Gosalbes MJ, Yuste S, Valls RM, Pedret A, Llauradó E, Jimenez-Hernandez N, Artacho A, Pla-Pagà L, Companys J, Ludwig I, Romero MP, Rubió L, Solà R.. Sci Rep 2020 Apr 15. FI:3,998 (Q1)

Response to: Comment About Statistical Analysis of a Cluster-Randomized Trial About Clustering and Nesting (DOI: 10.1089/chi.2019.0142)

Aceves-Martins M, Llauradó E, Tarro L, Moriña D, Papell-Garcia I, Prades-Tena J, Kettner-Høeberg H, Puiggròs F, Arola L, Davies A, Giralt M, Solà R. Child Obes 2020 Mar. FI:2,756 (Q1)

Acute Effects of Turmeric Extracts on Knee Joint Pain: A Pilot, Randomized Controlled Trial

Calderón-Pérez L, Llauradó E, Companys J, Pla-Pagà L, Boqué N, Puiggròs F, Valls RM, Pedret A, Llabrés JM, Arola L, Solà R. J Med Food 2020 Jul 29. FI:2,04 (Q2)

Effectiveness of Workplace Interventions for Improving Absenteeism, Productivity, and Work Ability of Employees: A Systematic Review and Meta-Analysis of Randomized Controlled Trials

Tarro L, Llauradó E, Ulldemolins G, Hermoso P, Solà R. Int J Environ Res Public Health 2020 Mar 14. FI:1,916 (Q2)

Impact of non-adherence to radiotherapy on 1-year survival in cancer patients in Catalonia, Spain

Borras JM, Font R, Solà J, Macia M, Tuset V, Arenas M, Eraso A, Verges R, Farré N, Pedro A, Mollà M, Algara M, Solé JM, Mira M, Espinàs JA.. Radiother Oncol. 2020 Oct;151:200-205.. FI:1,746 (Q1)

Tuberculosis infection in children visiting friends and relatives in countries with high incidence of tuberculosis: A study protocol

Soriano-Arandes A, Caylà JA, Gonçalves AQ, Orcau À, Noguera-Julian A, Padilla E, Solà-Segura E, Gordillo NR, Espiau M, García-Lerín MG, Rifà-Pujol MÀ, Jordi Gómez I Prat, Macia-Rieradevall E, Martin-Nalda A, Eril-Rius M, Santos Santiago J, Busquets-Poblet L, Martínez RM, Pérez-

Porcuna TM. Medicine (Baltimore). 2020
Sep 4;99(36):e22015.. FI:1,552 (Q2)

9) Grup de Nutrició i Salut Mental (NUTRISAM)



Responsable del grup: Victoria Arija Val

Línies d'investigació

- Evaluació del consum d'aliments en diferents grups de població (embarassades, lactants, nens en edat escolar, adolescents).
- L'estat nutricional i la seva relació amb la salut mental a través d'un enfocament multidisciplinari (i tenint en compte els determinants genètics de la població, sexe, activitat física, exposició a contaminants atmosfèrics i toxines de la llar, estrès, hàbits de son, tabac, alcohol i drogues). Ús, infeccions i entorn socioeconòmic.
- Estat nutricional i neurodesenvolupament: impacte dels factors hereditaris i ambientals en els trastorns del neurodesenvolupament.
- Epidemiologia de la psicopatologia infantil i juvenil.
- Programes d'intervenció en estil de vida per promoure la salut i el benestar mentals i prevenir les malalties mentals.

Membres del grup

- Responsable de grup: Victoria Arija Val, Josefa Canals Sans

• Investigadors/es post-doctoral: Carmen Hernández Martínez, Estefanía Aparicio, Núria Aranda Pons, Cristina Bedmar Carretero, Núria Voltas Moreso, Cristina Jardí Piñana, Paula Morales

- Doctorand/a: Patricia Esteban Figuerola, Lucía Iglesias Vázquez

Projectes Competitius Actius

Title: PI17/01754 EFECTO DE LOS FACTORES PRENATALES MATERNOS SOBRE EL NEURODESARROLLO DEL NIÑO

Principal Investigator: ARIJA VAL, VICTORIA

Duration: 01/01/2018 30/06/2022

Funding entity: INSTITUTO CARLOS III

Publicacions científiques

[Association between Iron Status and Incident Type 2 Diabetes: A Population-Based Cohort Study](#)

Díaz-López A, Iglesias-Vázquez L, Pallejà-Millán M, Rey Reñones C, Flores Mateo G, Arija V. Nutrients 2020 Oct 23. Fl:4,777 (Q1)

[Nutrient Intake during Pregnancy and Post-Partum: ECLIPSES Study](#)

Aparicio E, Jardí C, Bedmar C, Pallejà M, Basora J, Arija V, The Eclipses Study Group. Nutrients 2020 May 7. Fl:4,777 (Q1)

[Comparing eating behaviours, and symptoms of depression and anxiety between Spain and Greece during the COVID-19 outbreak: Cross-sectional analysis of two different confinement strategies.](#)

Papandreou CH, Arija V, Aretouli E, Tsilidis CK, Bulló M. Eur Eat Disord Rev 2020 Aug 4 : 10.1002/erv.2772. Fl:3,56 (Q1)

[Vitamin D status during pregnancy and offspring outcomes: a systematic review and meta-analysis of observational studies](#)

Tous M, Villalobos M, Iglesias L, Fernández-Barrés S, Arija V. Eur J Clin Nutr 2020 Jan. Fl:3,291 (Q1)

[Suicidality in a Community Sample of Early Adolescents: A Three-Phase Follow-Up Study](#)

Voltas N, Hernández-Martínez C, Arija V, Canals J. Arch Suicide Res 2020. FI:2,274 (Q2)

The effect of prenatal smoke exposure on child neuropsychological function: a prospective mother-child cohort study

Roigé-Castellví J, Murphy M, Hernández-Martínez C, Solé-Navais P, Cavallé-Busquets P, Fernández-Ballart J, Ballesteros M, Canals J. J Reprod Infant Psychol 2020 Feb. FI:1,188 (Q2)

[Validation of a short food frequency questionnaire in small children]

Esteban-Figuerola P, Jardí C, Canals J, Arija Val V. Nutr Hosp. 2020 Feb 17;37(1):101-113. FI:0,888 (Q3)

10) Programa Transversal Estil de Vida i Prevenció de la Malaltia



Responsable del grup: Josep Basora Gallisà

Línies d'investigació

- Diabetis. Grup de recerca “Diabetis-de-Reus-Tarragona”. IP Bernardo Costa.
- Prevenció de la diabetis. Epidemiologia i estudi de la prediabetis tipus 2
- Eficàcia de la prevenció de la malaltia cerebrovascular de diverses intervencions
- Estudi clínic de la síndrome metabòlica i de les seves associacions i complicacions
- Estudi clínic dels factors de risc i les complicacions associades a la diabetis tipus 2
- Anàlisi econòmica de cost-efectivitat en prevenció de la diabetis tipus 2
- Prevenció precoç de les complicacions de la diabetis tipus 2 en individus amb hiperglucèmia
- Valor predictiu del registre continu de al glucosa sobre la incidència de la diabetis tipus 2
- Marcadors i predictors de la incidència de diabetis tipus 2 en individus amb dieta mediterrània

• CENIT. Grup de Recerca en Estils de vida, Nutrició i Tabaquisme IP: Francisco M Martín

o Tabaquisme

o Estat nutricional i salut física, psíquica i social

• EPIVAC: Effectiveness of pneumococcal and influenza vaccines. IP Angel Vila

o Epidemiologia de la pneumònia adquirida a la comunitat (PAC) a la població general

o Epidemiologia de les malalties pneumocòcciques en la població general i especialment infants i gent gran

o Avaluació de l'efectivitat de la vacuna antipneumocòccica polisacàrida 23-valent en persones >50 anys i la vacuna heptavalent conjugada en els infants

o Avaluació de l'efectivitat de la vacuna antigripal en la població general >60 anys i subgrups específics d'alt risc

• Grup de recerca Tecnologies de la Informació i Comunicació en Atenció Primària IP. Cristina Rey

o Eines 2.0 aplicades a l'atenció primària

o Telemetria a l'atenció primària

o Història clínica electrònica aplicada a la recerca epidemiològica

• Salut-Mental-Tarragona. IP Enric Aragonés

o Salut Mental en Atenció Primària

Membres del grup

• Responsable de grup: Francisco Martín Luján, Ángel Vila Corcolés, Bernardo Costa Pinel, Cristina Rey Reñones, Enric Aragonés Benages

• Investigadors/es pre-doctoral: Albert del Pozo Niubo, Antoni Santigosa Ayala, Concepción Rambla Vidal, Pablo Hsu Chung, Roxana Elena Catalin, Yolanda Caules Ticoulat, Montse Gens

- Investigadors/es post-doctoral: Antonia Caballero Arias, Carmina Poblet Calaf, Cinta de Diego Cabanes, Ester Granado Font, Eva Satue Gracia, Felipe Villalobos Martínez, Francisco José Barrio Torrell, German Lopez Cortacans, Jesús Vizcaíno Marín, Jordi Blade Creixenti, Josep Basora Gallisà, Juan José Cabré Vila, M^a José Forcadell Peris, Olga Ochoa Gondar, Ramon Sagarrà Àlamo
- Assistencial: Immaculada Hospital Guardiola, M^a Teresa Basora Gallisà, Maria Luisa Barrera Uriarte, Maria Roser Pedret Llaberia, Sílvia Folch Pujol
- Tècnic/a: Ferran Bejarano Romero, Núria Martín Vergara

Publicacions científiques

[Diet quality and nutrient density in subjects with metabolic syndrome: Influence of socioeconomic status and lifestyle factors A cross-sectional assessment in the PREDIMED-Plus study](#)

Cano-Ibáñez N, Gea A, Ruiz-Canela M, Corella D, Salas-Salvadó J, Schröder H, Navarrete-Muñoz EM, Romaguera D, Martínez JA, Barón-López FJ, López-Miranda J, Estruch R, Riquelme-Gallego B, Alonso-Gómez Á, Tur JA, Tinahones FJ, Serra-Majem L, Martín V, Lapetra J, Vázquez C, Pintó X, Vidal J, Daimiel L, Gaforio JJ, Matía P, Ros E, Fernández-Carrión R, Díaz-López A, Zomeño MD, Candela I, Konieczna J, Abete I, Buil-Cosiales P, Basora J, Fitó M, Martínez-González MA, Bueno-Cavanillas A.. *Clin Nutr* 2020 Apr; 39(4):1161-1173. FI:6,36 (Q1)

[Nutrient adequacy and diet quality in a Mediterranean population with metabolic syndrome: A cross-sectional study](#)

Bibiloni MDM, Bouzas C, Abbate M, Martínez-González MA, Corella D, Salas-Salvadó J, Zomeño MD, Vioque J, Romaguera D, Martínez JA, Wärnberg J, López-Miranda J, Estruch R, Bueno-Cavanillas A, Alonso-Gómez Á, Tinahones F, Serra-Majem L, Martín V, Lapetra J, Vázquez C, Pintó X, Vidal J, Daimiel L, Delgado-Rodríguez M, Matía P, Ros E, Fernández-Carrión R, García-Rios A, Zuleta MA, Asensio A, Schröder H, Fitó M, Becerra-

Tomás N, Basora J, Cenoz JC, Diez-Espino J, Toledo E, Tur JA.. *Clin Nutr* 2020 Mar. FI:6,36 (Q1)

[Adherence to the Mediterranean Lifestyle and Desired Body Weight Loss in a Mediterranean Adult Population with Overweight: A PREDIMED-Plus Study](#)

Bouzas C, Bibiloni MDM, Julibert A, Ruiz-Canela M, Salas-Salvadó J, Corella D, Zomeño MD, Romaguera D, Vioque J, Alonso-Gómez ÁM, Wärnberg J, Martínez JA, Serra-Majem L, Estruch R, Tinahones FJ, Lapetra J, Pintó X, García Ríos A, Bueno-Cavanillas A, Gaforio JJ, Matía-Martín P, Daimiel L, Martín-Sánchez V, Vidal J, Vázquez C, Ros E, Fernandez-Lázaro CI, Becerra-Tomás N, Giménez-Alba IM, Muñoz J, Morey M, Oncina-Canovas A, Tojal-Sierra L, Pérez-López J, Abete I, Casañas-Quintana T, Castro-Barquero S, Bernal-López MR, Santos-Lozano JM, Galera A, Angullo-Martínez E, Basterra-Gortari FJ, Basora J, Saiz C, Castañer O, Martín M, Notario-Barandiarán L, Belló-Mora MC, Sayón-Orea C, García-Gavilán J, Goday A, Tur JA.. *Nutrients* 2020 Jul 16. FI:4,777 (Q1)

[Association between the Potential Influence of a Lifestyle Intervention in Older Individuals with Excess Weight and Metabolic Syndrome on Untreated Household Cohabitants and Their Family Support: The PREDIMED-Plus Study](#)

Canudas S, Becerra-Tomás N, Hernández-Alonso P, Galié S, Leung C, Crous-Bou M, De Vivo I, Gao Y, Gu Y, Meinilä J, Milte C, García-Calzón S, Martí A, Boccardi V, Ventura-Marra M, Salas-Salvadó J.. *Nutrients* 2020 Jul 3. FI:4,777 (Q1)

[Effect of Vitamin D Status during Pregnancy on Infant Neurodevelopment: The ECLIPSES Study](#)

Volatas N, Canals J, Hernández-Martínez C, Serrat N, Basora J, Arija V. *Nutrients* 2020 Oct 19. FI:4,777 (Q1)

[Leisure-Time Physical Activity, Sedentary Behaviour and Diet Quality are Associated with Metabolic Syndrome Severity: The PREDIMED-Plus Study](#)

Gallardo-Alfaro L, Bibiloni MDM, Mascaró CM, Montemayor S, Ruiz-Canela M, Salas-Salvadó J, Corella D, Fitó M, Romaguera D, Vioque J, Alonso-Gómez ÁM, Wärnberg J, Martínez JA, Serra-Majem L, Estruch R,

Fernández-García JC, Lapetra J, Pintó X, García Ríos A, Bueno-Cavanillas A, Gaforio JJ, Matía-Martín P, Daimiel L, Micó-Pérez RM, Vidal J, Vázquez C, Ros E, Fernandez-Lázaro CI, Becerra-Tomás N, Gimenez-Alba IM, Zomeño MD, Konieczna J, Compañ-Gabucio L, Tojal-Sierra L, Pérez-López J, Zulet MÁ, Casañas-Quintana T, Castro-Barquero S, Gómez-Pérez AM, Santos-Lozano JM, Galera A, Basterra-Gortari FJ, Basora J, Saiz C, Pérez-Vega KA, Galmés-Panadés AM, Tercero-Maciá C, Sorto-Sánchez C, Sayón-Orea C, García-Gavilán J, Muñoz-Martínez J, Tur JA.. Nutrients 2020 Apr 7. Fl:4,777 (Q1)

Impact of Life's Simple 7 on the incidence of major cardiovascular events in high-risk Spanish adults in the PREDIMED study cohort

Díez-Espino J, Buil-Cosiales P, Babio N, Toledo E, Corella D, Ros E, Fitó M, Gómez-Gracia E, Estruch R, Fiol M, Lapetra J, Alonso-Gómez A, Serra-Majem L, Pintó X, Sorlí JV, Muñoz MA, Basora J, Martínez-González MÁ. Rev Esp Cardiol (Engl Ed) 2020 Mar. Fl:4,642 (Q1)

Prevalence and risk factors of hypovitaminosis D in pregnant Spanish women

Díaz-López A, Jardí C, Villalobos M, Serrat N, Basora J, Arija V. Sci Rep 2020 Sep 25. Fl:3,998 (Q1)

The Role of Pain-Related Cognitions in the Relationship Between Pain Severity, Depression, and Pain Interference in a Sample of Primary Care Patients with Both Chronic Pain and Depression

Sánchez-Rodríguez E, Aragonès E, Jensen MP, Tomé-Pires C, Rambla C, López-Cortacans G, Miró J. Pain Med 2020 Oct 1. Fl:2,513 (Q1)

Behavioral Activation and Inhibition Systems: Further Evaluation of a BIS-BAS Model of Chronic Pain

Sánchez-Rodríguez E, Racine M, Castarlenas E, Tomé-Pires C, Galán S, Jensen MP, Miró J. Pain Med 2020 Nov 29:pnaa330. Fl:2,513 (Q1)

Association between serum ferritin and acute coronary heart disease: A population-based cohort study

Reyes C, Pons NA, Reñones CR, Gallisà JB, Val VA, Tebé C, Mateo GF. Atherosclerosis 2020 Jan. Fl:3,919 (Q1)

Association Between Lifestyle and Hypertriglyceridemic Waist Phenotype in the PREDIMED-Plus Study

Fernández-García JC, Muñoz-Garach A, Martínez-González MÁ, Salas-Salvado J, Corella D, Hernández Á, Romaguera D, Vioque J, Alonso-Gómez ÁM, Wärnberg J, Martínez JA, Serra-Majem L, Estruch R, Lapetra J, Pintó X, Tur JA, García-Ríos A, García Molina L, Gaforio JJ, Matía-Martín P, Daimiel L, Martín Sánchez V, Vidal J, Prieto L, Ros E, Goñi N, Babio N, Ortega-Azorin C, Castañer O, Konieczna J, Notario Barandiaran L, Vaquero-Luna J, Benavente-Marín JC, Zulet MA, Sanchez-Villegas A, Sacanella E, Gómez Huelgas R, Miró-Moriano L, Giménez-Gracia M, Julibert A, Razquin C, Basora J, Portolés O, Goday A, Galmés-Panadés AM, López-García CM, Moreno-Rodríguez A, Toledo E, Díaz-López A, Fitó M, Tinañones FJ, Bernal-López MR. Obesity (Silver Spring) 2020 Mar;28(3):537-543.. Fl:3,742 (Q1)

Clinical effectiveness of 13-valent and 23-valent pneumococcal vaccination in middle-aged and older adults: The EPIVAC cohort study, 2015-2016

Vila-Corcoles A, Hospital I, Ochoa-Gondar O, Satue E, de Diego C, Vila-Rovira A, Gómez-Bertomeu F, Raga X, Aragón M. Vaccine 2020 Jan 29. Fl:3,143 (Q1)

Cost-effectiveness of a collaborative care program for managing major depression and chronic musculoskeletal pain in primary care: Economic evaluation alongside a randomized controlled trial

Aragonès E, Sánchez-Iriso E, López-Cortacans G, Tomé-Pires C, Rambla C, Sánchez-Rodríguez E. J Psychosom Res 2020 Aug. Fl:2,86 (Q1)

Use of distinct anti-hypertensive drugs and risk for COVID-19 among hypertensive people: A population-based cohort study in Southern Catalonia, Spain

Vila-Corcoles A, Satue-Gracia E, Ochoa-Gondar O, Torrente-Fraga C, Gomez-Bertomeu F, Vila-Rovira A, Hospital-Guardiola I, de Diego-Cabanes C, Bejarano-Romero F, Rovira-Veciana D, Basora-

Gallisa J. J Clin Hypertens (Greenwich) 2020 Aug. FI:2,719 (Q2)

Influence of prior comorbidities and chronic medications use on the risk of COVID-19 in adults: a population-based cohort study in Tarragona, Spain

Vila-Córcoles A, Ochoa-Gondar O, Satué-Gracia EM, Torrente-Fraga C, Gomez-Bertomeu F, Vila-Rovira A, Hospital-Guardiola I, de Diego-Cabanes C, Bejarano-Romero F, Basora-Gallisà J. BMJ Open 2020 Dec 10. FI:2,496 (Q1)

An Evaluation of Sex Differences in Patients With Chronic Pain Undergoing an Interdisciplinary Pain Treatment Program

Racine M, Solé E, Sánchez-Rodríguez E, Tomé-Pires C, Roy R, Jensen MP, Miró J, Moulin DE, Cane D. Pain Pract 2020 Jan. FI:2,258 (Q1)

[Evaluation of incidence and risk profile for suffering Covid-19 infection by underlying conditions among middle-aged and older adults in Tarragona.]

Vila-Córcoles Á, Ochoa-Gondar O, Torrente-Fraga C, Vila-Rovira Á, Satué-Gracia E, Hospital-Guardiola I, de Diego-Cabanes C, Gómez-Bertomeu F, Basora-Gallisà J. Rev Esp Salud Pública 2020 Jun 26. FI:0,746 (Q4)

11) Grup de Recerca en Biomarcadors de Malalties i Mecanismes Moleculars (DIBIOMEC)



Responsable del grup: Matilde Rodríguez Chacón

Línes d'investigació

- Eix TWEAK/Fn14 com a biomarcador de diagnòstic i pronòstic de malalties inflamatories. Estudi dels seus mecanismes d'acció
- Estudi del eix TWEAK/Fn14 en context inflamatori del càncer de pròstata. Anàlisis del microambient inflamatori i metabòlic
- Exovesicules i teixit adipós peritumoral

Membres del grup

- Responsable de grup: Matilde Rodríguez Chacón
- Investigadors/es Clínic: José Segarra Tomás, Joan García Fontgivell, Ramón Fontova Garrofé, Xavier Ruiz Plazas, Samantha Rodriguez Muguruza, Erik Llacer Millan, Rosa Mª Jorba Martín
- Doctorand/a: Antonio Altuna Coy, Marta Alves Santiago, Silvia Sánchez Martin

Projectes Competitius Actius

Title: PI17/00877 ESTUDIO LA CITOCINA TWEAK Y DE SUS RECEPTORES FN14 Y CD163 COMO POTENCIALES

BIOMARCADORES NO INVASIVOS EN EL CONTEXTO DE CANCER PRÓSTATA. RELACION CON EL ESTATUS METABOLICO DEL PACIENTE

Principal Investigator: RODRIGUEZ CHACON, MATILDE

Duration: 01/01/2018 - 31/12/2021

Funding entity: INSTITUTO CARLOS III

Publicacions Científiques

[Abatacept in interstitial lung disease associated with rheumatoid arthritis: national multicenter study of 263 patients.](#)

Fernández-Díaz C, Castañeda S, Melero-González RB, Ortiz-Sanjuán F, Juan-Mas A, Carrasco-Cubero C, Casafont-Solé I, Olivé A, Rodríguez-Muguruza S et al.. Rheumatology (Oxford). 2020 Dec 1;59(12):3906-3916.. FI:5,606 (Q1)

[Predictors of fatigue and persistent fatigue in early rheumatoid arthritis: a longitudinal observational study, data from the ESPOIR cohort.](#)

Rodríguez-Muguruza S, Combe B, Guillemin F, Fautrel B, Olive A, Marsal S, Valero O, Rincheval N, Lukas C, Scand J Rheumatol 2020 Jul;49(4):259-266. FI:3,025 (Q1)

**12) Grupo de investigación en
Oftalmología - RETIPROGRAM**



Responsable del grup: Pere Romero Aroca

Línes d'investigació

- Malalties de la retina com la retinopatia diabètica, la seva epidemiologia, diagnosi precoç, telemedicina, intel·ligència artificial, sistemes d'ajut a la diagnosi CDDSS i sistema de lectura automàtica de la retina o DLA.
- Estudi de la inflamació en patologia ocular, centrant l'estudi en l'efecte de les paraxonasses.

Membres del grup

- Responsable de grup: Pere Romero Aroca, Domènec Puig Savi
- Investigadors/es sènior: Ester Santos Blanco, Marc Baget Bernaldiz, Aïda Valls Mateu, Antonio Moreno Ribas, Isabel Mendez Marin, Nuria Soler Lluis, Alejandro Filloy Rius
- Doctorand/a: Raquel Verges Puig, Raul Navarro Gil, Noemí Rosello Silvestre

Projectes Competitius Actius

Title: PI18/00169 APLICACION EN UNA POBLACION REAL Y EVALUACION DEL SISTEMA DE AYUDA AL CRIBADO DE

RETINOPATIA DIABETICA,
INCORPORANDO UN SISTEMA DE
LECTURA AUTOMATICA DE IMÁGENES
Principal Investigator: ROMERO AROCA,
PERE

Duration: 01/01/2019 30/06/2022

Funding entity: INSTITUTO CARLOS III

Publicacions científiques

[Convexity shape constraints for retinal blood vessel segmentation and foveal avascular zone detection](#)

Escorcia-Gutierrez J, Torrents-Barrena J, Gamarra M, Romero-Aroca P, Valls A, Puig D. Comput Biol Med 2020 Dec. FI:3,434 (Q1)

[Analysis of the location of retinal lesions in central retinographies of patients with Type 2 diabetes](#)

Munuera-Gifre E, Saez M, Juvinyà-Canals D, Rodríguez-Poncelas A, Barrot-de-la-Puente JF, Franch-Nadal J, Romero-Aroca P, Barceló MA, Coll-de-Tuero G. Acta Ophthalmol 2020 Feb. FI:3,362 (Q1)

[Validation of a Deep Learning Algorithm for Diabetic Retinopathy](#)

Romero-Aroca P, Verges-Puig R, de la Torre J, Valls A, Relaño-Barambio N, Puig D, Baget-Bernaldiz M. Telemed J E Health 2020 Aug. FI:2,385 (Q1)

13) Grup d'investigació en risc cardiovascular. HJ23



Responsables del grup: Alfredo Bardají

Línies d'investigació

- Malalties cardiovasculars, el grup treballa en estudis clínics sobre cardiopatia isquèmica, insuficiència renal, insuficiència cardíaca i hipertensió.
- Insuficiència cardíaca, el grup focalitza la seva activitat en l'estudi de marcadors clínics i biològics de mort sobtada.
- El dany miocàrdic, el grup treballa en el perfil clínic i pronòstic, de l'infart de miocàrdic tipus 1, tipus 2, dany miocàrdic agut i dany miocàrdic crònic.

Membres del grup

- Responsable de grup: Alfredo Bardají Ruiz, Oscar Peiro
- Doctorand/a: Gil Bonet, Anna Carrasquer, Mohsen Mohandes, Esther Sans
- Investigador/a Post-doctoral: Isabel Serrano
- Assistencial: Judit Rodriguez, Claudia Scardino, Ramón de Castro, Marta Guillen, Sandra Cabrera, Gabriel Martín, Sergio Rojas, Mónica Fuertes

Projectes Competitius Actius

Title: PI19/00705 PROYECTOS DE INVESTIGACION EN SALUD INSTITUTO CARLOS III. - IMPLICACION PRONOSTICA DE LA ESTRUCTURA Y

FUNCION CARDIACA EN EL DAÑO MIOCARDICO NO ISQUEMICO.
Principal Investigator: BARDAJI RUIZ, ALFREDO

Duration: 01/01/2020 - 31/12/2022

Funding entity: INSTITUTO CARLOS III

Publicacions científiques

[Has the Fourth Universal Definition of Myocardial Infarction led to better diagnosis and risk stratification?](#)

Bueno H, Rossello X, Bardají A. Eur Heart J 2020 Jul 10. FI:22,673 (Q1)

[Metoprolol blunts the time-dependent progression of infarct size](#)

Lobo-Gonzalez M, Galán-Arriola C, Rossello X, González-Del-Hoyo M, Vilchez JP, Higuero-Verdejo MI, García-Ruiz JM, López-Martín GJ, Sánchez-González J, Oliver E, Pizarro G, Fuster V, Ibanez B. Basic Res Cardiol 2020 Aug 3. FI:11,981 (Q1)

[Comorbidity burden and revascularization benefit in elderly patients with acute coronary syndrome](#)

Sanchis J, García Acuña JM, Raposeiras S, Barrabés JA, Cordero A, Martínez-Sellés M, Bardají A, Díez-Villanueva P, Marín F, Ruiz-Nodar JM, Vicente-Ibarra N, Alonso Salinas GL, Rigueiro P, Abu-Assi E, Formiga F, Núñez J, Núñez E, Ariza-Solé A. Rev Esp Cardiol (Engl Ed) 2020 Aug 7:S1885-5857(20)30280-2. FI:4,642 (Q1)

[Changes in causes of death and influence of therapeutic improvement over time in patients with heart failure and reduced ejection fraction](#)

Fernández-Vázquez D, Ferrero-Gregori A, Álvarez-García J, Gómez-Otero I, Vázquez R, Delgado Jiménez J, Worner Díz F, Bardají A, García-Pavía P, Bayés-Genís A, González-Juanatey JR, Cinca J, Pascual Figal DA. Rev Esp Cardiol (Engl Ed) 2020 Jul;73(7):561-568. FI:4,642 (Q1)

[Comparative prediction of long-term mortality by the CHA2DS2-VASc score and cardiac troponin I levels in patients with atrial fibrillation at the emergency department](#)

González-Del-Hoyo M, Carrasquer A, Bonet G, Fort-Gallifa I, Bardají A. Eur J

Intern Med 2020 Aug;78:154-156. FI:4,329 (Q1)

Impact of renal function on admission in COVID-19 patients: an analysis of the international HOPE COVID-19 (Health Outcome Predictive Evaluation for COVID 19) Registry.

Uribarri A, Núñez-Gil IJ, Aparisi A, Becerra-Muñoz VM, Feltes G, Trabattoni D, Fernández-Rozas I, Viana-Llamas MC, Pepe M, Cerrato E, Capel-Astrua T, Romero R, Castro-Mejía AF, El-Battrawy I, López-País J, D'Ascenzo F, Fabregat-Andres O, Bardají A, Raposeiras-Roubín S, Marín F, Fernández-Ortiz A, Macaya C, Estrada V; HOPE COVID-19 Investigators. J Nephrol 2020 Aug;33(4):737-745.

FI:3,484 (Q1)

Author's reply

Azeli Y, Barbería E, Bardají A. Emergencias 2020 Abr;32(2):146-147. FI:3,173 (Q2)

Soluble urokinase plasminogen activator receptor as a long-term prognostic biomarker in acute coronary syndromes
Peiró ÓM, Cediel G, Bonet G, Rojas S, Quintern V, Carrasquer A, González-Del-Hoyo M, Sanz E, Bardají A. Biomarkers 2020 Jul;25(5):402-409. FI:2,479 (Q2)

A single nucleotide deletion resulting in a frameshift in exon 4 of TAB2 is associated with a polyvalular syndrome

Permanyer E, Laurie S, Blasco-Lucas A, Maldonado G, Amador-Catalan A, Ferrer-Curriu G, Fuste B, Perez ML, Gonzalez-Alujas T, Beltran S, Comas-Riu J, Bardají A, Evangelista A, Galiñanes M. Eur J Med Genet 2020 Apr;63(4):103854. FI:2,368 (Q2)

Percutaneous Left Atrial Appendage Closure in the Presence of Thrombus Using LAmbre Device and Cerebral Protection System

Mohandes M, Pernigotti A, Morr CI, Bardají A. Korean Circ J 2020 Mar;50(3):281-283. FI:2,322 (Q2)

Mortality risk assessment in Spain and Italy, insights of the HOPE COVID-19 registry

Núñez-Gil IJ, Fernández-Pérez C, Estrada V, Becerra-Muñoz VM, El-Battrawy I, Uribarri A, Fernández-Rozas I, Feltes G,

Viana-Llamas MC, Trabattoni D, López-País J, Pepe M, Romero R, Castro-Mejía AF, Cerrato E, Astrua TC, D'Ascenzo F, Fabregat-Andres O, Moreu J, Guerra F, Signes-Costa J, Marín F, Buosenso D, Bardají A, Raposeiras-Roubín S, Elola J, Molino Á, Gómez-Doblas JJ, Abumayyaleh M, Aparisi Á, Molina M, Guerri A, Arroyo-Espliguero R, Assanelli E, Mapelli M, García-Acuña JM, Brindicci G, Manzone E, Ortega-Armas ME, Bianco M, Trung CP, Núñez MJ, Castellanos-Lluch C, García-Vázquez E, Cabello-Clotet N, Jamhour-Chelh K, Tellez MJ, Fernández-Ortiz A, Macaya C; HOPE COVID-19 Investigators. Intern Emerg Med 2020 Nov 9:1–10. FI:2,322 (Q1)

Underlying heart diseases and acute COVID-19 outcomes.

Núñez-Gil IJJ, Fernández-Ortiz A, Maroud Eid C, Huang J, Romero R, Becerra-Muñoz VM, Uribarri A, Feltes G, Trabattoni D, Fernandez-Rozas I, Viana-Llamas MC, Pepe M, Cerrato E, Bertaina M, Capel Astrua T, Alfonso E, Castro-Mejía AF, Raposeiras-Roubín S, D'Ascenzo F, Espejo Paeres C, Signes-Costa J, Bardaji A, Fernandez-Pérez C, Marin F, Fabregat-Andres O, Akin I, Estrada V, Macaya C. Cardiol J. 2020 Dec 21. FI:1,669 (Q2)
Safety and efficacy of coronary laser ablation as an adjunctive therapy in percutaneous coronary intervention: a single-centre experience
Mohandes M, Fernández L, Rojas S, Moreno C, Fuertes M, Fernández F, Pernigotti A, Gonzalez-Del-Hoyo M, Guarinos J, Sanz E, Bardají A. Coron Artery Dis 2020 Nov 12. FI:1,335 (Q3)

10.2. Neurociència i salut mental

1) Grup de genètica i ambient en les psicosis



Responsable: Elisabet Vilella

Línies d'investigació

- Identificació de factors genètics i psicosocials en els trastorns psiquiàtrics.
- Estudi dels factors de risc en les fases inicials dels trastorns psicòtics.
- Avaluació de la funció cognitiva i de la personalitat en la patologia psiquiàtrica.
- Avaluació dels criteris diagnòstics i indicadors de salut en la discapacitat intel·lectual.
- Avaluació dels processos en les intervencions terapèutiques en salut mental.

Membres del grup

- Responsable de grup: Elisabet Vilella Cuadrada
- Investigadors/es principals: Lourdes Martorell Bonet; Gerard Muntané Medina
- Investigadors/es pre-doctoral: Alba Valiente Pallejà, Ester Sada Fuente, Carme Miralles Ibiza, Irene Moreno Fernández, Laura Ortega Sanz, Noelia Romero Abad,

Rafael Martínez Leal, Núria Manzanares Tesón, Bengisu Kevser Bulduk, Isaac Herrera Ramos, Cristina Gascón Huite, Cinta Gas Prades, Beatriz García Ruiz, Amaya García Domínguez, Ángel Cabezas Serisa, Ester Bermúdez Gómez, Selena Arana Castel, María José Algara Gayán, Aser Alba Coma

- Investigadors/es post-doctoral: Yolanda Alonso Pérez, María José Cortés Ruiz, Annabel Folch Mas, Xavier Gallart Palau, Alfonso Gutiérrez Zotes, Fernando López Seco, Vanessa Sánchez Gistau, Esteban Sepúlveda Ramos, Zulay Lugo Ramírez, Alba Valiente Pallejà
- Col-laborador/a: Ignasi Coll Vilar, Eva Esteban Giner, Cristina Sáez Navarro, Montse Solé Moix

Projectes Competitius Actius

Title: UPI- 2017 NARSAD INDEPENDENT INVESTIGATOR GRANT "INVOLVEMENT OF DDR1 GENE VARIANTS IN MYELIN INTEGRITY AND COGNITIVE SPEED PROCESSING IN EUTHYMIC BIPOLAR DISORDER PATIENTS"

Principal Investigator: VILELLA CUADRADA, ELISABET

Duration: 15/09/2017 - 14/09/2020

Funding entity: BRAIN & BEHAVIOR RESEARCH FOUNDATION

Title: "PI15/00852 IMPLICACION DE VARIANTES DEL GEN DDR1 EN LA INTEGRIDAD DE LA MIELINA Y EN LA VELOCIDAD DE PROCESAMIENTO COGNITIVO EN PACIENTES CON TRASTORNO BIPOLAR EN FASE EUTIMICA"

Principal Investigator: VILELLA CUADRADA, ELISABET

Duration: 01/01/2016 - 30/11/2020

Funding entity: INSTITUTO CARLOS III

Title: PERIS - SLT006/17/00357: SUBVENCIONS PER A PROJECTES DE RECERCA A LA SALUT MENTAL EN L'AMBIT DE LA RECERCA I LA INNOVACIÓ EN SALUT QUE ES DESENVOLUPIN DURANT ELS ANYS 2018-2020

Principal Investigator: SÁNCHEZ GISTAU, VANESSA

Duration: 17/02/2018 - 31/12/2020

Funding entity: FUNDACIO CLINIC PER LA RECERCA BIOMEDICA

Title: PERIS - SLT006/17/00231: SUBVENCIONS PER A PROJECTES DE RECERCA A LA SALUT MENTAL EN L'AMBIT DE LA RECERCA I LA INNOVACIO EN SALUT QUE ES DESENVOLUPIN DURANT ELS ANYS 2018-2020

Principal Investigator: GUTIERREZ ZOTES, ALFONSO

Duration: 17/02/2018 - 31/12/2021

Funding entity: FUNDACIO SANT JOAN DE DEU

Title: PI18/00514 IMPLICACION DEL ADN MITOCONDRIAL EN LAS PSICOSIS TEMPRANAS: RELACION CON EL RIESGO DE ENFERMEDAD, ESTRES, REDIMIENTO COGNITIVO, SINTOMATOLOGIA CLINICA Y SINDROME METABOLICO.

Principal Investigator: MARTORELL BONET, LOURDES

Duration: 01/01/2019 - 31/12/2022

Funding entity: INSTITUTO CARLOS III

Title: PI18/00945 OBTENCION DE UN ALGORITMO DE DIAGNOSTICO PARA EL TRASTORNO BIPOLAR CON MAQUINAS DE APRENDIZAJE UTILIZANDO DATOS DE NEUROIMAGEN ESTRUCTURAL, VARIANTES GENETICAS Y FUNCION COGNITIVA

Principal Investigator: VILELLA CUADRADA, ELISABET

Duration: 01/01/2019 - 31/12/2022

Funding entity: INSTITUTO CARLOS III

Title: AGENCIA DE GESTIO D'AJUTS UNIVERSITARIS I DE RECERCA. PROJECTE DELS AJUTS PER A XARXES D'R+D+I PER DUR A TERME PROGRAMES DE VALORIZACIO I TRANSFERENCIA DELS RESULTATS DE LA RECERCA, SUSCEPTIBLES DE SER COFINANÇATS PARCIALMENT PEL FONS EUROPEU DE DESENVOLUPAMENT REGIONAL (FEDER). IU68-013943 - FUNDACIO SAN JOAN DE DEU

Principal Investigator: VILELLA CUADRADA, ELISABET

Duration: 19/06/2020 - 31/12/2022

Funding entity: AGENCIA DE GESTIO D'AJUTS UNIVERSITARIS I DE RECERCA

Title: 2020 FI_B_00650 BULDUK, BENGISU KEVSER AJUTS DESTINATS A UNIVERSITATS, CENTRES DE RECERCA I FUNDACIONS HOSPITALARIES PER CONTRACTAR PERSONAL INVESTIGADOR NOVELL PER A L'ANY 2020 (FI)

Principal Investigator: BULDUK, BENGISU KEVSER

Duration: 01/09/2020 - 31/08/2023

Funding entity: AGENCIA DE GESTIO D'AJUTS UNIVERSITARIS I DE RECERCA

Publicacions científiques

[The Girona declaration on borderline intellectual functioning](#)

Martínez-Leal R, Folch A, Munir K, Novell R, Salvador-Carulla L; Borderline Intellectual Functioning Consensus Group.. Lancet Psychiatry 2020 Mar;7(3):e8. FI:16,209 (Q1)

[Identification of germline pathogenic variants in DNA damage repair genes by a next-generation sequencing multigene panel in BRCAx patients](#)

Rodríguez-Balada M, Roig B, Melé M, Albacar C, Serrano S, Salvat M, Querol M, Borràs J, Martorell L, Gumà J. Clin Biochem 2020 Feb. FI:7,292 (Q2)

[A phase 1, randomized double-blind, placebo controlled trial to evaluate safety and efficacy of epigallocatechin-3-gallate and cognitive training in adults with Fragile X syndrome](#)

de la Torre R, de Sola S, Farré M, Xicoté L, Cuenca-Royo A, Rodriguez J, León A, Langohr K, Gomis-González M, Hernandez G, Esteba S, Del Hoyo L, Sánchez-Gutiérrez J, Cortés MJ, Ozaita A, Espadaler JM, Novell R, Martínez-Leal R, Milá M, Dierssen M. Clin Nutr. 2020 Feb;39(2):378-387.. FI:6,36 (Q1)

[System-wide molecular dynamics of endothelial dysfunction in Gram-negative sepsis](#)

Gallart-Palau X, Serra A, Sze SK.. BMC Biol 2020 Nov 24;18(1):175. FI:6,313 (Q1)

[Alzheimer's disease progression characterized by alterations in the](#)

molecular profiles and biogenesis of brain extracellular vesicles
Gallart-Palau X, Guo X, Serra A, Sze SK.. Alzheimers Res Ther 2020 May 8. FI:6,104 (Q1)

Hypothalamic-pituitary-adrenal axis function and exposure to stress factors and cannabis use in recent-onset psychosis
Labad J, Ortega L, Cabezas Á, Montalvo I, Arranz S, Algara MJ, Solé M, Martorell L, Vilella E, Sánchez-Gistau V. World J Biol Psychiatry 2020 Sep. FI:4,164 (Q1)

Multivariate Brain Functional Connectivity Through Regularized Estimators
Salvador R, Verdolini N, García-Ruiz B, Jiménez E, Sarró S, Vilella E, Vieta E, Canales-Rodríguez EJ, Pomarol-Clotet E, Voineskos AN. Front Neurosci 2020 Dec 8. FI:4,154 (Q2)

Leukocyte and brain DDR1 hypermethylation is altered in psychosis and is correlated with stress and inflammatory markers
García-Ruiz B, Moreno L, Muntané G, Sánchez-Gistau V, Gutiérrez-Zotes A, Martorell L, Labad J, Vilella E. Epigenomics 2020 Feb. FI:4,112 (Q2)

Neuropsychological profile of children and adolescents with psychosis risk syndrome: the CAPRIS study
Tor J, Dolz M, Sintes-Estevez A, de la Serna E, Puig O, Muñoz-Samons D, Pardo M, Rodríguez-Pascual M, Sugranyes G, Sánchez-Gistau V, Baeza I. Eur Child Adolesc Psychiatry 2020 Sep. FI:3,941 (Q1)

Clinical and cognitive correlates of childhood attention-deficit/hyperactivity disorder in first-episode psychosis: A controlled study
Sanchez-Gistau V, Manzanares N, Cabezas A, Sole M, Algara M, Vilella E. Eur Neuropsychopharmacol 2020 Jul. FI:3,853 (Q1)

The impact of sex and cannabis on clinical features in first-admitted patients with psychosis
Arranz S, Mané A, Bergé D, Monserrat C, Cabezas A, Vilella E, Sanchez-Gistau V. Eur Neuropsychopharmacol 2020 Jul. FI:3,853 (Q1)

Increased blood lactate levels during exercise and mitochondrial DNA alterations converge on mitochondrial dysfunction in schizophrenia

Valiente-Pallejà A, Torrell H, Alonso Y, Vilella E, Muntané G, Martorell L. Schizophr Res 2020 Jun. FI:3,759 (Q1)

Personality Disorders in the ICD-11: Spanish Validation of the PiCD and the SASPD in a Mixed Community and Clinical Sample

Gutiérrez F, Aluja A, Ruiz J, García LF, Gárriz M, Gutiérrez-Zotes A, Gallardo-Pujol D, Navarro-Haro MV, Alabernia-Segura M, Mestre-Pintó JI, Torrens M, Peri JM, Sureda B, Soler J, Pascual JC, Vall G, Calvo N, Ferrer M, Oltmanns JR, Widiger TA. Assessment 2020 Jun 25:1073191120936357. FI:3,706 (Q1)

High frequency of clinical conditions commonly associated with mitochondrial disorders in schizophrenia

Alonso Y, Valiente-Pallejà A, Verge B, Vilella E, Martorell L. Acta Neuropsychiatr 2020 Oct. FI:3 (Q2)

Delirium diagnostic tool-provisional (DDT-Pro) scores in delirium, subsyndromal delirium and no delirium

Franco JG, Trzepacz PT, Sepúlveda E, Ocampo MV, Velásquez-Tirado JD, Zaraza DR, Restrepo C, Giraldo AM, Serna PA, Zuluaga A, López C. Gen Hosp Psychiatry 2020 Nov-Dec;67:107-114. FI:2,86 (Q1)

Glycated Haemoglobin Is Associated With Poorer Cognitive Performance in Patients With Recent-Onset Psychosis

Montalvo I, González-Rodríguez A, Cabezas Á, Gutiérrez-Zotes A, Solé M, Algara MJ, Ortega L, Martorell L, Sánchez-Gistau V, Vilella E, Labad J. Front Psychiatry 2020 May 25. FI:2,849 (Q1)

Relationship between childhood trauma and social adaptation in a sample of young people attending an early intervention service for psychosis

Ortega L, Montalvo I, Solé M, Creus M, Cabezas Á, Gutiérrez-Zotes A, Sánchez-Gistau V, Vilella E, Labad J. Rev Psiquiatr Salud Ment 2020 Jul-Sep. FI:2,63 (Q2)

[Interaction between the functional SNP rs2070951 in NR3C2 gene and high levels of plasma corticotropin-releasing hormone associates to postpartum depression](#)

Gutiérrez-Zotes A, Díaz-Peña R, Costas J, Martorell L, Gelabert E, Sans T, Navinés R, Albacar G, Ímaz ML, García-Esteve L, Sanjuan J, Martín-Santos R, Carracedo A, Vilella E. Arch Womens Ment Health 2020 Jun. FI:2,5 (Q1)

[The role of personality dimensions, depressive symptoms and other psychosocial variables in predicting postpartum suicidal ideation: a cohort study](#)

Gelabert E, Gutierrez-Zotes A, Navines R, Labad J, Puyané M, Donadon MF, Guillamat R, Mayoral F, Jover M, Canellas F, Gratacós M, Guitart M, Gornemann I, Roca M, Costas J, Ivorra JL, Subirà S, de Diego Y, Osorio FL, Garcia-Esteve L, Sanjuan J, Vilella E, Martin-Santos R. Arch Womens Ment Health 2020 Aug. FI:2,5 (Q1)

[Association between anti-thyroid antibodies and negative symptoms in early psychosis](#)

Barbero JD, Palacín A, Serra P, Solé M, Ortega L, Cabezas Á, Montalvo I, Algara MJ, Martorell L, Vilella E, Sánchez-Gistau V, Labad J. Early Interv Psychiatry 2020 Aug. FI:2,257 (Q1)

[Perceived stress, social functioning and quality of life in first-episode psychosis: A 1-year follow-up study](#)

Ortega L, Montalvo I, Monseny R, Burjales-Martí MD, Martorell L, Sanchez-Gistau V, Vilella E, Labad J. Early Interv Psychiatry 2020 Nov 30. FI:2,257 (Q1)

[Validation of the Delirium Diagnostic Tool-Provisional \(DDT-Pro\) With Medical Inpatients and Comparison With the Confusion Assessment Method Algorithm](#)

Franco JG, Ocampo MV, Velásquez-Tirado JD, Zaraza DR, Giraldo AM, Serna PA, López C, Zuluaga A, Sepúlveda E, Kean J, Trzepacz PT. J Neuropsychiatry Clin Neurosci 2020 Summer;32(3):213-226. FI:2,192 (Q1)

[The Role of Sleep Quality, Trait Anxiety and Hypothalamic-Pituitary-Adrenal Axis Measures in Cognitive Abilities of Healthy Individuals](#)

Labad J, Salvat-Pujol N, Armario A, Cabezas Á, Arriba-Arnau A, Nadal R, Martorell L, Urretavizcaya M, Monreal JA, Crespo JM, Vilella E, Palao DJ, Menchón JM, Soria V. Int J Environ Res Public Health. 2020 Oct 19. FI: 1,916 (Q2)

10.3. Salut i medi ambient

1) Infecció i inmunidad - INIM



Responsable de grup: Francesc Vidal

Línies d'investigació

- Immunogenètica i immunopatogènesi de la infecció pel VIH
- Farmacogenètica i toxicogenètica del tractament antiretroviral (ART)
- Estudis epidemiològics i clínics de la infecció pel VIH
- Innovació en ART

Membres del grup

- Responsable de grup: Francesc Vidal Marsal
- Investigador/a sènior: Joaquim Peraire Forner, Anna Rull Aixa, Consuelo Viladés Laborda, Sergi Veloso Esteban, Miguel López-Dupla, Graciano García-Pardo, Montserrat Olona Cabasses
- Clínics: Montserrat Vargas Laguna, Anna Martí Gil
- Tècnic/a: Verónica Alba Elvira
- Doctorands: Jenifer Masip Morcillo, Elena Yeregui Etxeberria

Projectes competitius actius

Title: "GILEAD FELLOWSHIP PROGRAM: GENOMIC, TRANSCRIPTOMIC AND

METABOLOMIC STUDY IN HIV-INFECTED PATIENTS UNDER SUPPRESSIVE ANTIRETROVIRAL TREATMENT WHO HAVE POOR IMMUNE RECOVERY"

Principal Investigator: VIDAL MARSAL, FRANCESC

Duration: 15/02/2015 - 08/02/2020

Funding entity: GILEAD SCIENCES, S.L.

Title: PI16/00503 ESTUDIO DE MARCADORES OMICOS LINFOCITARIOS POTENCIALMENTE PREDICTORES DE RECUPERACION INMUNE SUBOPTIMA EN PACIENTES VIH+ TRATADOS CON ANTIRETROVIRALES. SUBESTUDIO DE MICROBIOTA INTESTINAL (PROYECTOS DE INVESTIGACION EN SALUD) DR. VIDAL

Principal Investigator: VIDAL MARSAL, FRANCESC

Duration: 01/01/2017 - 31/12/2020

Funding entity: INSTITUTO CARLOS III

Title: COVID-19 CIRCULATING AND CELLULAR PROGNOSTIC BIOMARKERS FOR COVID-19 PROGRESSION IN PATIENT WITH SARS-COV-2 INFECTION USING MULTI OMIC SCIENCE.

Principal Investigator: VIDAL MARSAL, FRANCESC

Duration: 01/01/2020 - 31/12/2020

Funding entity: GENERALITAT DE CATALUNYA

Title: 2019/IISPV/05 BOOSTING YOUNG TALENT CALL. PROGRAMA D'AJUTS PER AL DESENVOLUPAMENT DE PROJECTES DE RECERCA IISPV 2019-2021.

Principal Investigator: RULL AIXÀ, ANNA

Duration: 01/01/2020 - 31/12/2021

Funding entity: FUNDACIÓ INSTITUT D'INVESTIGACIÓ SANITÀRIA PERE VIRGILI

Title: RD16/0025/0006 REDES TEMATICAS DE INVESTIGACION COOPERATIVA EN SALUD - INSTITUTO DE SALUD CARLOS III (INVESTIGADOR PRINCIPAL: FRANCESC VIDAL MARSAL)

Principal Investigator: VIDAL MARSAL, FRANCESC

Duration: 01/01/2017 - 31/12/2022

Funding entity: INSTITUTO CARLOS III

Title: PI19/01337 PROYECTOS DE INVESTIGACION EN SALUD INSTITUTO CARLOS III. - PERFIL OMICO ASOCIADO CON LA PROGRESION DE LA INFECCION POR VIH: EN BUSCA DE NUEVOS BIOMARCADORES Y DE NUEVAS DIANAS TERAPEUTICAS PARA LOGRAR LA CURACION FUNCIONAL DEL VIH.

Principal Investigator: VIDAL MARSAL, FRANCESC

Duration: 01/01/2020 - 31/12/2022

Funding entity: INSTITUTO CARLOS III

Publicacions científiques

[High circulating SDF-1and MCP-1 levels and genetic variations in CXCL12, CCL2 and CCR5: Prognostic signature of immune recovery status in treated HIV-positive patients](#)

Yeregui E, Viladés C, Domingo P, Ceausu A, Pacheco YM, Veloso S, Inciarte A, Vidal-González J, Peraire M, Perpiñán C, Falcó V, Masip J, Alba V, Vargas M, Martí A, Reverté L, Mallolas J, Vidal F, Peraire J, Rull A. EBioMedicine 2020;62:103077. FI:5,736 (Q1)

[The algorithm used for the interpretation of doravirine transmitted drug resistance strongly influences clinical practice and guideline recommendations](#)

Guerrero-Beltrán C, Martínez-Sanz J, Álvarez M, Olalla J, García-Álvarez M, Iribarren JA, Masiá M, Montero M, García-Bujalance S, Blanco JR, Rivero M, García-Fraile LJ, Espinosa N, Rodríguez C, Aguilera A, Vidal-Ampurdanes MC, Martínez M, Iborra A, Imaz A, Gómez-Sirvent JL, Peraire J, Portilla J, Caballero E, Alejos B, García F, Moreno S; CoRIS. J Antimicrob Chemother. 2020; 75: 1294-1300. FI:5,439 (Q1)

[Increased Frequencies of Myeloid-Derived Suppressor Cells Precede Immunodiscordance in HIV-Infected Subjects](#)

Rosado-Sánchez I, De Pablo-Bernal R, Rull A, González J, Moreno S, Vinuesa D, Estrada V, Muñoz-Fernández MA, Vidal F,

Leal M, Pacheco YM. Front Immunol 2020; 11:581307. FI:5,085 (Q1)

[Comparison of the Birmingham Vasculitis Activity Score and the Five-Factor Score to Assess Survival in Antineutrophil Cytoplasmic Antibody-Associated Vasculitis: A Study of 550 Patients From Spain \(REVAS Registry\)](#)

Solans-Laqué R, Rodriguez-Carballeira M, Rios-Blanco JJ, Fraile G, Sáez-Comet L, Martínez-Zapico A, Frutos B, Solanich X, Fonseca-Aizpuru E, Pasquau-Liaño F, Zamora M, Oristrell J, Fanlo P, Lopez-Dupla M, Abdilla M, García-Sánchez I, Sopeña B, Castillo MJ, Perales I, Callejas JL. Arthritis Care Res (Hoboken). 2020;72(7):1001-1010. FI:4,056 (Q1)

[New signatures of poor CD4 cell recovery after suppressive antiretroviral therapy in HIV-1-infected individuals: involvement of miR-192, IL-6, sCD14 and miR-144](#)

Hernández-Walias F, Ruiz-de-León MJ, Rosado-Sánchez I, Vázquez E, Leal M, Moreno S, Vidal F, Blanco J, Pacheco YM, Vallejo A. Sci Rep 2020; 10:2937. FI:3,998 (Q1)

[Subcutaneous Administration of Apolipoprotein J-Derived Mimetic Peptide d-\[113-122\]apoJ Improves LDL and HDL Function and Prevents Atherosclerosis in LDLR-KO Mice.](#)

Rivas-Urbina A, Rull A, Aldana-Ramos J, Santos D, Puig N, Farre-Cabrero N, Benítez S, Pérez A, de Gonzalo-Calvo D, Escola-Gil JC, Julve J, Ordoñez-Llanos J, Sanchez-Quesada JL. Biomolecules. 2020;10(6):829.. FI:3,935 (Q2)

[Systemic phenotype related to primary Sjögren's syndrome in 279 patients carrying isolated anti-La/SSB antibodies](#)

Acar-Denizli N, Horváth IF, Mandl T, Priori R, Vissink A, Hernandez-Molina G, Armagan B, Praprotnik S, Sebastian A, Bartoloni E, Rischmueller M, Pasoto SG, Nordmark G, Nakamura H, Fernandes Moça Trevisani V, Retamozo S, Carsons SE, Maure-Noia B, Sánchez-Berná I, López-Dupla M, Fonseca-Aizpuru E, Melchor Díaz S, Vázquez M, Díaz Cuiza PE, de Miguel Campo B, Ng WF, Rasmussen A, Dong X, Li X, Baldini C, Seror R, Gottenberg JE, Kruize AA, Sandhya P, Gandolfo S, Kwok SK,

Kvarnstrom M, Solans R, Sene D, Suzuki Y, Isenberg DA, Valim V, Hofauer B, Giacomelli R, Devauchelle-Pensec V, Atzeni F, Gheita TA, Morel J, Izzo R, Kalyoncu U, Szántó A, Olsson P, Bootsma H, Ramos-Casals M, Kostov B, Brito-Zerón P. Clin Exp Rheumatol. 2020;38 Suppl 126(4):85-94.. FI:3,319 (Q2)

[**Lipidomics Reveals Reduced Inflammatory Lipid Species and Storage Lipids after Switching from EFV/FTC/TDF to RPV/FTC/TDF: A Randomized Open-Label Trial**](#)

Curran A, Rull A, Navarro J, Vidal-González J, Martin-Castillo M, Burgos J, Falcó V, Ribera E, Torrella A, Planas B, Peraire J, Crespo M.. J Clin Med. 2020;9:1246. FI:3,303 (Q1)

[**Lack of Association of Initial Viral Load in SARS-CoV-2 Patients with In-Hospital Mortality**](#)

Carrasquer A, Peiró ÓM, Sanchez-Gimenez R, Lal-Trehan N, Del-Moral-Ronda V, Bonet G, Gutierrez C, Fort-Gallifa I, Martin-Grau C, Benavent C, Vidal F, Bardají A. Am J Trop Med Hyg 2020; 104(2):540-5. FI:2,126 (Q1)

[**Effectiveness of the combination elvitegravir/cobicistat/tenofovir/emtricitabine \(EVG/COB/TFV/FTC\) plus darunavir among reatment-experienced patients in clinical practice: a multicentre cohort study.**](#)

Suárez-García I, Moreno C, Ruiz-Alqueró M, Pérez-Elías MJ, Navarro M, Díez Martínez M, Viciana P, Pérez-Martínez L, Górgolas M, Amador C, de Zárraga MA, Jarrín I; Cohort of the Spanish HIV/AIDS Research Network (CoRIS). AIDS Res Ther. 2020;17(1):45.. FI:2,092 (Q1)

[**Acute upper limb bilateral ischaemia and tranverse mielitis in a patient with giant cell arteritis**](#)

Yeregui Etxeberria E, Rojas Sánchez RA, Lopez Dupla M. Med Clin (Barc). 2020:S0025-7753(20)30470-X. FI:1,635 (Q3)

2) Tecnatox-Laboratorio de toxicología y salud medioambiental (LTSM)



Responsable del grup: Marta Schuhmacher

Línies d'investigació

- Toxicología
- Avaluació de riscos per a la salut
- Toxicología alimentària
- Neurotoxicología, neurocomportament i neuropsicología
- Radiobiología
- Ecotoxicología
- Informàtica ambiental i toxicología de sistemes
- Neuropsicología i emocions

Membres del grup

- Responsable de grup: Josep Lluís Domingo, Marta Schuhmacher
- Investigadors/es sènior: Margarita Torrente, Paloma Vicens, Vikas Kumar, Jordi Sierra Llopert, Mercedes Gómez, María Teresa Colomina, Victòria Linares, Martí Nadal Lomas, Jaume Folch, Jordi Blanco, Montse Mari, Luis Heredia, Montse Bellés, Francisco García Sayago, María Cabré
- Investigadors/es post-doctoral: Sooyeon Kim, Laia Guàrdia, María Ángeles Martínez,

Joaquim Rovira, Montse Marquès, Neus González, Roser Esplugas Borràs, Roberta Carafa

- Administrativa: Pilar Prada
- Tècnic/a: Noemí Serra Encinas, Anabel Díez Pelegrín, Montse Mari
- Doctorand/a: Neus González, Roser Esplugas, Deepika, Judit Biosca, Marta Herrero Casado, Nuria Gayà Caro, Nora Expósito, Cristian Cabrera, David Mateo, Oscar Sabuz, Lara Dronjak, Jananee Muralidharan, Serena Galiè, Laia Gutiérrez, Àlex Folch, Enric Vera, Elena Sánchez, Genis Oña, Marta Mora, Xavier Coromines, Jordina Blaguer Trias

Projectes Competitius Actius

Title: UPI-CALL: H2020-SC1-2016-RTD

Principal Investigator: DOMINGO ROIG, JOSEP-IISPV

Duration: 01/01/2017 - 30/06/2022

Funding entity: COMMISSION OF THE EUROPEAN COMMUNITIES

Title: "PID2019-104443GB-I00 PROYECTOS I+D GENERACION DE CONOCIMIENTO EXPOSICION TEMPRANA A SUSTANCIAS QUÍMICAS A TRAVES DE MATERIALES TEXTILES: EVALUACION DE RIESGOS PARA LA SALUD. EARLY-LIFE EXPOSURE TO CHEMICAL SUBSTANCES THROUGH TEXTILE MATERIALS: HEALTH RISK ASSESSMENT. "

Principal Investigator: NADAL LOMAS, MARTÍ

Duration: 01/06/2020 - 31/05/2023

Funding entity: MINISTERIO DE CIENCIA, INNOVACION Y UNIVERSIDADES

Title: "H2020-SFS-2018-2020 , SPRINT :SUSTAINABLE PLANT PROTECTION TRANSITION: A GLOBAL HEALTH APPROACH DR. NADAL"

Principal Investigator: NADAL LOMAS , MARTÍ

Duration: 01/09/2020 - 31/08/2025

Funding entity: COMMISSION OF THE EUROPEAN COMMUNITIES

Publicacions científiques

Biomonitoring of co-exposure to bisphenols by consumers of canned foodstuffs
 González N, Marquès M, Cunha SC, Fernandes JO, Domingo JL, Nadal M. Environ Int 2020 Jul. FI:7,577 (Q1)

Air quality, health impacts and burden of disease due to air pollution (PM(10), PM(2.5), NO(2) and O(3)): Application of AirQ+ model to the Camp de Tarragona County (Catalonia, Spain)
 Rovira J, Domingo JL, Schuhmacher M. Sci Total Environ 2020 Feb 10. FI: 6,551 (Q1)

Health risks for the population living near petrochemical industrial complexes. 2. Adverse health outcomes other than cancer
 Marquès M, Domingo JL, Nadal M, Schuhmacher M. Sci Total Environ 2020 Aug 15. FI:6,551 (Q1)

Human exposure to trace elements and PCDD/Fs around a hazardous waste landfill in Catalonia (Spain)
 Herrero M, Rovira J, Marquès M, Nadal M, Domingo JL. Sci Total Environ 2020 Mar 25. FI:6,551 (Q1)

Multi-box mass balance model of PFOA and PFOS in different regions of San Francisco Bay
 Sánchez-Soberón F, Sutton R, Sedlak M, Yee D, Schuhmacher M, Park JS. Chemosphere 2020 Aug. FI:5,778 (Q1)

Adverse health effects for populations living near waste incinerators with special attention to hazardous waste incinerators. A review of the scientific literature
 Domingo JL, Marquès M, Mari M, Schuhmacher M. Environ Res 2020 Aug. FI:5,715 (Q1)

Changes of organochlorine compound concentrations in maternal serum during pregnancy and comparison to serum cord blood composition
 Junqué E, Garcia S, Martínez MÁ, Rovira J, Schuhmacher M, Grimalt JO. Environ Res 2020 Mar. FI:5,715 (Q1)

Effects of air pollutants on the transmission and severity of respiratory viral infections

Domingo JL, Rovira J. Environ Res 2020 Aug. FI:5,715 (Q1)

Essential and toxic elements in human milk concentrate with human milk lyophilizate: A preclinical study
 Oliveira MM, Trevilato TMB, Segura-Muñoz SI, Aragon DC, Alves LG, Nadal M, Marquès M, Domingo JL, Sierra J, Camelo JS Jr. Environ Res 2020 Sep. FI:5,715 (Q1)

Health risks for the population living near petrochemical industrial complexes. 1. Cancer risks: A review of the scientific literature

Domingo JL, Marquès M, Nadal M, Schuhmacher M. Environ Res 2020 Jul. FI:5,715 (Q1)

Human biomonitoring to evaluate exposure to toxic and essential trace elements during pregnancy. Part B: Predictors of exposure
 Bocca B, Ruggieri F, Pino A, Rovira J, Calamandrei G, Mirabella F, Martínez MÁ, Domingo JL, Alimonti A, Schuhmacher M. Environ Res 2020 Mar. FI:5,715 (Q1)

Human exposure to trace elements, aromatic amines and formaldehyde in swimsuits: Assessment of the health risks
 Herrero M, Rovira J, Esplugas R, Nadal M, Domingo JL. Environ Res 2020 Feb. FI:5,715 (Q1)

Mercury speciation in preserved historical sludge: Potential risk from sludge contained within reclaimed land of Minamata Bay, Japan

Sakamoto M, Itai T, Marumoto K, Marumoto M, Kodamatani H, Tomiyasu T, Nagasaka H, Mori K, Poulain AJ, Domingo JL, Horvat M, Matsuyama A. Environ Res 2020 Jan. FI:5,715 (Q1)

Organophosphate metabolite concentrations in maternal urine during pregnancy

Bravo N, Peralta S, Grimalt JO, Martínez MÁ, Rovira J, Schuhmacher M. Environ Res 2020 Mar. FI:5,715 (Q1)

Reconstruction of phthalate exposure and DINCH metabolites from biomonitoring data from the EXHES cohort of Tarragona, Spain: A case study on estimated vs reconstructed DEHP using the PBPK model

Martínez MA, Rovira J, Sharma RP, Schuhmacher M, Kumar V. Environ Res 2020 Jul. FI:5,715 (Q1)

Fully Automated Breast Density Segmentation and Classification Using Deep Learning

Saffari N, Rashwan HA, Abdel-Nasser M, Kumar Singh V, Arenas M, Mangina E, Herrera B, Puig D. Diagnostics (Basel). 2020 Nov 23;10(11):988. FI:5,25 (Q3)

Corrigendum to 'Meat consumption: Which are the current global risks? A review of recent (2010-2020) evidences'. [Food Res. Int. 137 (2020) 109341]

González N, Marquès M, Nadal M, Domingo JL. Food Res Int 2020 Nov. FI:4,972 (Q1)

Meat consumption: Which are the current global risks? A review of recent (2010-2020) evidences

González N, Marquès M, Nadal M, Domingo JL. Food Res Int 2020 Nov. FI:4,972 (Q1)

A systems toxicology approach to compare the heavy metal mixtures (Pb, As, MeHg) impact in neurodegenerative diseases
Karri V, Schuhmacher M Professor, Kumar V. Food Chem Toxicol 2020 May. FI:4,679 (Q1)

APOE genotype and postnatal chlorpyrifos exposure modulate gut microbiota and cerebral short-chain fatty acids in preweaning mice

Guardia-Escote L, Basaure P, Biosca-Brull J, Cabré M, Blanco J, Pérez-Fernández C, Sánchez-Santed F, Domingo JL, Colomina MT. Food Chem Toxicol 2020 Jan. FI:4,679 (Q1)

Bisphenol A analogues (BPS and BPF) present a greater obesogenic capacity in 3T3-L1 cell line

Martínez MÁ, Blanco J, Rovira J, Kumar V, Domingo JL, Schuhmacher M. Food Chem Toxicol 2020 Jun. FI:4,679 (Q1)

Concentrations of nine bisphenol analogues in food purchased from Catalonia (Spain): Comparison of canned and non-canned foodstuffs

González N, Cunha SC, Ferreira R, Fernandes JO, Marquès M, Nadal M,

Domingo JL. Food Chem Toxicol 2020 Feb. FI:4,679 (Q1)

Consumers' acceptance of an online tool with personalized health risk-benefit communication about seafood consumption
Minnens F, Marques A, Domingo JL, Verbeke W. Food Chem Toxicol 2020 Oct. FI:4,679 (Q1)

Dietary exposure to total and inorganic arsenic via rice and rice-based products consumption

González N, Calderón J, Rúbies A, Bosch J, Timoner I, Castell V, Marquès M, Nadal M, Domingo JL. Food Chem Toxicol 2020 Jul. FI:4,679 (Q1)

Maternal exposure to mixtures of dienestrol, linuron and flutamide. Part I: Feminization effects on male rat offspring

Schreiber E, Garcia T, González N, Esplugas R, Sharma RP, Torrente M, Kumar V, Bovee T, Katsanou ES, Machera K, Domingo JL, Gómez M. Food Chem Toxicol 2020 May. FI:4,679 (Q1)

Maternal exposure to mixtures of dienestrol, linuron and flutamide. Part II: Endocrine-related gene expression assessment on male offspring rat testes

Katsanou ES, Batakis P, Spyropoulou A, Schreiber E, Bovee T, Torrente M, Gómez MM, Kumar V, Domingo JL, Machera K. Food Chem Toxicol 2020 Oct. FI:4,679 (Q1)

Obesogenic effects of chlorpyrifos and its metabolites during the differentiation of 3T3-L1 preadipocytes

Blanco J, Guardia-Escote L, Mulero M, Basaure P, Biosca-Brull J, Cabré M, Colomina MT, Domingo JL, Sánchez DJ. Food Chem Toxicol 2020 Mar. FI:4,679 (Q1)

Comparison of aggregated exposure to di(2-ethylhexyl) phthalate from diet and personal care products with urinary concentrations of metabolites using a PBPK model - Results from the Norwegian biomonitoring study in EuroMix

Husøy T, Martínez MA, Sharma RP, Kumar V, Andreassen M, Sakhi AK, Thomsen C, Dirven H. Food Chem Toxicol 2020 Sep. FI:4,679 (Q1)

Hepatotoxicity of the pesticides imazalil, thiacloprid and clothianidin - Individual and mixture effects in a 28-day study in female Wistar rats

Alarcan J, Waizenegger J, Solano MLM, Lichtenstein D, Luckert C, Peijnenburg A, Stoopen G, Sharma RP, Kumar V, Marx-Stoelting P, Lampen A, Braeuning A. *Food Chem Toxicol* 2020 Jun. Fl:4,679 (Q1)

Test and Risk Assessment Strategies for combined exposure to multiple chemicals
Kumar V, Boobis AR, Moretto A. *Food Chem Toxicol* 2020 Oct. Fl:4,679 (Q1)

Cumulative dietary risk assessment overarching different regulatory silos using a margin of exposure approach: A case study with three chemical silos

Sprong C, Crépet A, Metruccio F, Blaznik U, Anagnostopoulos C, Christodoulou DL, Jensen BH, Kennedy M, González N, Rehurkova I, Ruprich J, Te Biesebeek JD, Vanacker M, Moretto A, van Klaveren J. *Food Chem Toxicol* 2020 Aug. Fl:4,679 (Q1)

Human exposure to synthetic endocrine disrupting chemicals (S-EDCs) is generally negligible as compared to natural compounds with higher or comparable endocrine activity. How to evaluate the risk of the S-EDCs?

Autrup H, Barile FA, Berry SC, Blaauboer BJ, Boobis A, Bolt H, Hengstler J, Borgert CJ, Dekant W, Dietrich D, Domingo JL, Gori GB, Greim H, Kacew S, Marquardt H, Pelkonen O, Savolainen K, Heslop-Harrison P, Vermeulen NP. *Food Chem Toxicol* 2020 Aug. Fl:4,679 (Q1)

An integrative translational framework for chemical induced neurotoxicity - a systematic review

Deepika D, Sharma RP, Schuhmacher M, Kumar V. *Crit Rev Toxicol* 2020 May. Fl:4,257 (Q1)

ROS networks: designs, aging, Parkinson's disease and precision therapies
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Human exposure to synthetic endocrine disrupting chemicals (S-EDCs) is generally negligible as compared to natural compounds with higher or comparable endocrine activity. How to evaluate the risk of the S-EDCs?

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The Roses Ocean and Human Health Chair: A New Way to Engage the Public in Oceans and Human Health Challenges

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3) Micologia i Microbiologia Ambiental



Responsable del grup: Josep Guarro Artigas

Línies d'investigació

- Biodiversitat fúngica
- Micologia mèdica
- Microbiología ambiental

Membres del grup

- Responsable de grup: Josep Guarro Artigas
- Investigadors/es sènior: Alberto Miguel Stchigel, Josepa Gené Díaz, Loida López Fernández, Dania García Sánchez, Javier Capilla Luque, José Francisco Cano Lira, María José Figueras Salvat, Emilio Mayayo
- Investigadors/es post-doctoral: Marta Sanchís Talón
- Doctorand/a: Alba Pérez Cantero, Alba Pérez Cataluña, Dàmaris Lorenzo Gutiérrez, Isabel Antonieta Iturrieta González, Dayana Gilda Dumas León, Ana Fernández Bravo, Emmanuel Rosas De Paz, Viridiana Magaña Dueñas, Patricia Navarro Rodríguez, Daniel Torres García

Publicacions científiques

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Le Govic Y, Havlíček V, Capilla J, Luptáková D, Dumas D, Papon N, Le Gal S, Bouchara JP, Vandeputte P. Front Cell Infect Microbiol 2020 Oct 28. FI:4,123 (Q1)

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Pérez-Cantero A, Guarro J. Mycoses 2020 Nov. FI:3,575 (Q1)

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Alonso R, Girbau C, Martínez-Malaxetxebarria I, Pérez-Cataluña A, Salas-Massó N, Romalde JL, Figueras MJ, Fernandez-Astorga A. Syst Appl Microbiol 2020 Jul. FI:3,224 (Q1)

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Expression of ERG11 and efflux pump genes CDR1, CDR2 and SNQ2 in voriconazole susceptible and resistant *Candida glabrata* strains

Navarro-Rodríguez P, Martín-Vicente A, López-Fernández L, Guarro J, Capilla J.. Med Mycol 2020 Jan 1. FI:2,822 (Q1)

Transcriptional response of *Fusarium oxysporum* and *Neocosmospora solani* challenged with amphotericin B or posaconazole.

Castillo-Castañeda A, Cañas-Duarte SJ, Guevara-Suarez M, Guarro J, Restrepo S, Celis Ramírez AM. Microbiology 2020 Oct 28;10. FI:2,7 (Q2)

Three new *Curvularia* species from clinical and environmental sources
Iturrieta-González I, Gené J, Wiederhold N, García D. MycoKeys. 2020 Jun 17;68:1-21. FI:2,525 (Q1)

Three new *Curvularia* species from clinical and environmental sources

Iturrieta-González I, Gené J, Wiederhold N, García D. MycoKeys 2020 Jun 17. Fl:2,525 (Q1)

[Histopathology, Molecular Identification and Antifungal Susceptibility Testing of *Nannizziopsis arthrosporoides* from a Captive Cuban Rock Iguana \(*Cyclura nubila*\)](#)

Chen YH, Chi MJ, Sun PL, Yu PH, Liu CH, Cano-Lira JF, Li WT. Mycopathologia 2020 Dec. Fl:2,452 (Q1)

[Identification of *Mucor circinelloides* antigens recognized by sera from immunocompromised infected mice](#)
Areitio M, Martin-Vicente A, Arbizu A, Antoran A, Aparicio-Fernandez L, Buldain I, Martin-Souto L, Rementeria A, Capilla J, Hernando FL, Ramirez-Garcia A. Rev Iberoam Micol 2020 Jul-Oct. Fl:1,627 (Q3)

[Sino-orbital infection caused by *Schizophyllum commune* - rare presentation of a basidiomycetous fungus](#)
Kaur M, Chander J, Singla N, Das A, Sood S, Guarro J. J Mycol Med 2020 Jun. Fl:1,56 (Q3)

[Species diversity in *Penicillium* and *Talaromyces* from herbivore dung, and the proposal of two new genera of penicillium-like fungi in Aspergillaceae](#)
Guevara-Suarez M, García D, Cano-Lira JF, Guarro J, Gené J. Fungal Syst Evol 2020 Jun. Fl:0,333 (Q2)

4) Sepsis, Inflamació i Seguretat del malalt crític (SIS)



Responsables del grup: María Bodí Saera i Alejandro Rodríguez Oviedo

Línies d'investigació

- Sèpsia: Epidemiología general i molecular. Diagnóstico, prevención i tratamiento
- Inflamación, hipoxia i alteraciones macro i microcirculatorias
- Seguridad del paciente crítico
- Donación i Trasplante
- Sistemas TIC, calidad, seguridad de l'paciente crítico
- Análisis de datos en salud, Big Data i Machine Learning

Membres del grup

- Responsable de grupo: María Bodí, Alejandro Rodríguez Oviedo
- Investigadores clínicos: Gonzalo Sirgo Luanco, Mónica Magret
- Investigadores clínicos: Mari Carmen Gilabert, Federico Esteban Reboll, Ángel Pobo, Christian Villavicencio, Sara Rosich, Iban Oliva, Iulen Leache, Gerard Moreno, Vanessa Blázquez, Sandra Canelles, Oriol Plans, Manuel Samper, Paula Perello, Laura Claverias, Marc Cartanya, Raquel Carbonell, Frederic Gómez Bertomeu, Ester Picó, Ester Salvadó Geli, Alfonso Gedea Martín
- Científicos de datos: Manuel Ruiz, Jordi Albiol Msc, Eduard Mayol PhD, Josep Gómez
- Coordinadora de estudios: Sandra Trefler
- Coordinadora Farmacia: Sonia Jornet, Pharm, Laura Canadell, Pharm, PhD
- ICU- Farmacia: Xavier Teixido Huertas, Erika Esteve
- Secretaria: Pilar Torné

Projectes competitius actius

Title: PI16/00491 INFORMACION, COMUNICACION Y TRABAJO EN EQUIPO EN MEDICINA INTENSIVA: ANALISIS ALEATORIOS DE SEGURIDAD EN TIEMPO REAL RELACIONADOS CON LOS SIC Y LA TRASLACION CONOCIMIENTO (AAESTRE-SIC) PROYECTO DE INVESTIGACION EN SALUD ISCIII (DRA.MARIA BODI SAERA)

Principal Investigator: BODI SAERA, M.AMPARO

Duration: 01/01/2017 - 30/11/2020

Funding entity: INSTITUTO CARLOS III

Title: PI16/00486 DAÑO MIOCARDICO EN LA NEUMONIA NEUMOCOCICA GRAVE COMO CAUSA DE MORTALIDAD POR EVENTOS CARDIOVASCULARES AGUDOS (NEUMOCAR) PROYECTO DE INVESTIGACION EN SALUD ISCIII (DR.ALEJANDRO RODRIGUEZ OVIEDO)

Principal Investigator: RODRIGUEZ OVIEDO, ALEJANDRO

Duration: 01/01/2017 - 31/12/2020

Funding entity: INSTITUTO CARLOS III

Publicacions científiques

The effect of renal replacement therapy and antibiotic dose on antibiotic concentrations in critically ill patients: Data from the multinational SMARRT Study

Roberts JA, Joynt G, Lee A, Choi G, Bellomo R, Kanji S, Mudaliar MY, Peake SL, Stephens D, Taccone FS, Uldemolins M, Valkonen MM, Agbeve J, Baptista JP, Bekos V, Boidin C, Brinkmann A, Buizen L, Castro P, Cole CL, Creteur J, De Waele JJ, Deans R, Eastwood GM, Escobar L, Gomersall C, Gresham R, Jamal JA, Kluge S, König C, Koulouras VP, Lassig-Smith M, Laterre PF, Lei K, Leung P, Lefrant JY, Llaurodó-Serra M, Martin-Loches I, Mat Nor MB, Ostermann M, Parker SL, Rello J, Roberts DM, Roberts MS, Richards B, Rodríguez A, Roehr AC, Roger C, Seoane L, Sinnallareddy M, Sousa E, Soy D, Spring A, Starr T, Thomas J, Turnidge J, Wallis SC, Williams T, Wittebole X, Zikou XT, Paul S, Lipman J.. Clin Infect Dis 2020 Mar 9:ciaa224. Fl:8,313 (Q1)

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Zaragoza R, Vidal-Cortés P, Aguilar G, Borges M, Diaz E, Ferrer R, Maseda E, Nieto M, Nuvials FX, Ramirez P, Rodriguez A, Soriano C, Veganzona J, Martín-Loches I. Crit Care 2020 Jun 29. Fl:6,407 (Q1)

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Villafuerte D, Aliberti S, Soni NJ, Faverio P, Marcos PJ, Wunderink RG, Rodriguez A, Sibila O, Sanz F, Martin-Loches I, Menzella F, Reyes LF, Jankovic M, Spielmanns M, Restrepo MI. Respirology. 2020 May;25(5):543-551. Fl:4,88 (Q1)

Impact of Chronic Obstructive Pulmonary Disease on Incidence, Microbiology and Outcome of Ventilator-Associated Lower Respiratory Tract Infections

Rouzé A, Boddaert P, Martin-Loches I, Povoa P, Rodriguez A, Ramdane N, Salluh J, Houard M, Nseir S. Microorganisms 2020 Jan 23. Fl:4,167 (Q2)

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Martin-Loches I, Bisanti A, Diaz E, Rodriguez A. Expert Rev Anti Infect Ther 2020 Dec. Fl:3,767 (Q2)

Online education about end-of-life care and the donation process after brain death and circulatory death. Can we influence perception and attitudes in critical care doctors? A prospective study

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Lower Respiratory Tract Infection and Short-Term Outcome in Patients With Acute Respiratory Distress Syndrome

Zampieri FG, Póvoa P, Salluh JI, Rodriguez A, Valade S, Andrade Gomes J, Reignier J, Molinos E, Almirall J, Boussekey N, Socias L, Ramirez P, Viana WN, Rouzé A, Nseir S, Martin-Loches I.. J Intensive Care Med 2020 Jun. Fl:3,142 (Q1)

Associated risk factors and outcomes of acute kidney injury in severetrauma: Results from the Spanish trauma ICU registry (RETRAUCI)

Mario Chico-Fernández, Jesús Abelardo Barea-Mendoza, Txoan Ormazabal-Zabala, Gerard Moreno-Muñoz, Diego Pastor-Marcos et al. Anaesthesia Critical Care & Pain Medicine Volume 39, Issue 4, August 2020, Pages 503-506. Fl:2,707 (Q1)

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Severe infection due to the SARS-CoV-2 coronavirus: Experience of a tertiary hospital with COVID-19 patients during the 2020 pandemic

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C, Sánchez Parrilla R, Trefler S, Esteve
Pitarch E, Canadell L, Teixido X, Claverias
L, Bodí M. Med Intensiva. 2020
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FI:2,363 (Q3)

ADENI-UCI Study: Analysis of non-income decisions in ICU as a measure of limitation of life support treatments.
Med Intensiva (Engl Ed). 2020 Dec
29:S0210-5691(20)30342-9. doi:
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of print.

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Cordero M, Cossío AM, Ballesteros D,
Recena P, Tizón AI, Palomo M, Del Campo
MM, Freita S, Duerto J, Bilbao NM, Vidal B,
González-Romero D, Diaz-Dominguez F,
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Estella A, Pobo A, Gomez-Acebo I,
González-Castro A. Med Intensiva (Engl
Ed). Dec 29:S0210-5691. FI:2,363 (Q3)

Impact of difficult sedation on the management and outcome of critically ill patients

Gil Castillejos D, Rubio ML, Ferre C, de
Gracia MLÁ, Bodí M, Sandiumenge A. Nurs
Crit Care 2020 Sep 24. FI:2,205 (Q1)

Serum levels of neutrophil Gelatinase associated Lipocalin (NGAL) predicts hemodialysis after coronary angiography in high risk patients with acute coronary syndrome

Concepción Pavía-Pesquera M, Rubio O,
Estella A, Pobo A, Gomez-Acebo I,
González-Castro A. Med Intensiva (Engl
Ed). Dec 29:S0210-5691. FI:2,363 (Q3)

Impact of difficult sedation on the management and outcome of critically ill patients

Gil Castillejos D, Rubio ML, Ferre C, de
Gracia MLÁ, Bodí M, Sandiumenge A. Nurs
Crit Care 2020 Sep 24. FI:2,205 (Q1)

Serum levels of neutrophil Gelatinase associated Lipocalin (NGAL) predicts hemodialysis after coronary angiography in high risk patients with acute coronary syndrome

Reyes LF, Severiche-Bueno DF,
Bustamante CA, Murillo S, Soni NJ, Poveda
M, Gomez E, Buitrago R, Rodriguez A.
BMC Nephrol 2020 Apr 22. FI:2,027 (Q2)

Positive-pressure needleless connectors did not increase rates of catheter hub colonization respecting the use of neutral-pressure needleless connectors in a prospective randomized trial

Delgado M, Capdevila JA, Sauca G,
Méndez J, Rodriguez A, Yébenes JC.
Enferm Infect Microbiol Clin. 2020
Mar;38(3):119-122. FI:0,92 (Q3)
Reyes LF, Severiche-Bueno DF,
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M, Gomez E, Buitrago R, Rodriguez A.
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Positive-pressure needleless connectors did not increase rates of catheter hub colonization respecting the use of neutral-pressure needleless connectors in a prospective randomized trial

Delgado M, Capdevila JA, Sauca G,
Méndez J, Rodriguez A, Yébenes JC.
Enferm Infect Microbiol Clin. 2020
Mar;38(3):119-122. FI:0,92 (Q3)

10.4. Grups Clínics

1) Grup d'investigació en Patologia Oncològica i Bioinformàtica



Responsable del grup: Marylène Lejeune

Linies d'investigació

- Estudi de patrons de biomarcadors del microambient tumoral.
- Morfometria i informàtica aplicada.
- Recerca translacional en malalties hematològiques: avaliació de protocols diagnòstics i de tractaments.

Membres del grup

- Responsable de grup, PhD: Marylène Lejeune, Carlos López Pablo
- Investigadors/es clínics: Ramon Bosch Príncep, Tomàs Alvaro Naranjo, Montserrat Llobera Serentill, Xavier Ortín Font, Marta Rodríguez Luaces, Daniel Mata Cano, Antonio Rizo Barrios, M^a Teresa Giménez Pérez
- Tècnic/a de laboratori: Bàrbara Tomàs Arasa, Vanessa Gestí García, Anna Curto Subirats, Noelia Burgués Llaó, Anna Suñé Martín, Eduard Nolla Villalonga, Almudena Nàgera Porres, Maria del Mar Barberà Marro, Beatriu Domènech Grau, Marc Iniesta Vallderpérez, Maria Cinta Curto Anoll, Ana Guasch Bosch, Montserrat Salvado Piñol, Ainhoa Montserrat Fontanet

- Tècnic/a de recerca i informàtica: Jordi Baucells Lluís, Esther Sauras Colon, Júlia Casanova Ribes

- Col·laboradors/es externs/es: Anna Korzynska, Benoît Plancoulaine, Nicolas Elie, Gloria Bueno, Domènec Puig Valls, Marcial García-Rojo, Gustavo Marrero Callico

Publicacions científiques

[Circulating microbiota-derived metabolites: a "liquid biopsy"](#)

Aragonès G, Colom-Pellicer M, Aguilar C, Guiu-Jurado E, Martínez S, Sabench F, Antonio Porras J, Riesco D, Del Castillo D, Richart C, Auguet T. *Int J Obes (Lond)* 2020 Apr. FI:4,419 (Q1)

[Relationship between IL-8 Circulating Levels and TLR2 Hepatic Expression in Women with Morbid Obesity and Nonalcoholic Steatohepatitis](#)

Auguet T, Bertran L, Binetti J, Aguilar C, Martínez S, Sabench F, Lopez-Dupla JM, Porras JA, Riesco D, Del Castillo D, Richart C. *Int J Mol Sci* 2020 Jun 11. FI:4,602 (Q2)

[Deregulated Serotonin Pathway in Women with Morbid Obesity and NAFLD](#)

Binetti J, Bertran L, Riesco D, Aguilar C, Martínez S, Sabench F, Porras JA, Camaron J, Castillo DD, Richart C, Auguet T. *Life (Basel)* 2020 Oct 16. FI:3,78 (Q1)

[Hepatocyte Notch Signaling Deregulation Related to Lipid Metabolism in Women with Obesity and Nonalcoholic Fatty Liver](#)

Auguet T, Bertran L, Binetti J, Aguilar C, Martínez S, Guiu-Jurado E, Sabench F, Adalid L, Porras JA, Riesco D, Del Castillo D, Richart C. *Obesity (Silver Spring)* 2020 Aug. FI:3,742 (Q1)

[Quantitative and Topographic Analysis by Immunohistochemical Expression of Ghrelin Gastric Cells in Patients with Morbid Obesity](#)

Parada D D, Peña G KB, Vives M, Molina A, Mayayo E, Riu F, Sabench F, Del Castillo D. *Diabetes Metab Syndr Obes* 2020 Aug 18. FI:2,842 (Q2)

[Intestinal Obstruction Caused By Anisakis](#)
 Bartra Balcells È, Domenech Calvet J, Del Castillo Déjardin D. Rev Esp Enferm Dig. 2020 Nov 27. FI:2,196 (Q3)

[Analysis of mid-term weight loss after Roux-en-Y gastric bypass and sleeve gastrectomy: Proposed percentile charts for total weight loss percentages to be used in daily clinical practice](#)

Sabench Pereferrer F, Molina López A, Acín Gándara D, Arroyo Martín JJ, Baltar Boileve J, Barranco Moreno A, Cassinello Fernández N, Del Castillo Déjardin D, Fernández Alsina E, Ferrer-Márquez M, Mans Muntwyler E, Martín García-Almenta E, García Ruiz de Gordejuela A. Cir Esp 2020 Feb. FI:1,323 (Q3)

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[Potential Molecular Players of the Tumor Microenvironment in Extracranial Pediatric Solid Tumors.](#)

Noguera R, Álvaro Naranjo. Cancers (Basel). 2020 Oct 9;12(10):2905.. FI:5,968 (Q1)

[Comparative clinical prognosis of massive and non-massive pulmonary embolism: a registry-based cohort study.](#)

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[Differences in the immune response of the non-metastatic axillary lymph nodes between triple-negative and luminal A breast cancer surrogate subtypes.](#)

López C, Gibert-Ramos A, Bosch R, Korzynska A, García-Rojo M, Bueno G, García-Fontgivell JF, González SM, Fontoura L, Navarro AG, Colón ES, Ribes JC, Roszkowiak L, Roso A, Berenguer M, Llobera M, Baucells J, Lejeune M. Am J Pathol 2020 Dec 9:S0002-9440(20)30549-6.. FI:3,491 (Q1)

[The Immune Response in Nonmetastatic Axillary Lymph Nodes Is Associated with the Presence of Axillary Metastasis and Breast Cancer Patient Outcome](#)

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[Increased survival time or better quality of life? Trade-off between benefits and adverse events in the systemic treatment of cancer.](#)

Valentí V, Ramos J, Pérez C, Capdevila L, Ruiz I, Tikhomirova L, Sánchez M, Juez I, Llobera M, Sopena E, Rubió J, Salazar R. Clin Transl Oncol. 2020 Jun;22(6):935-942. FI:2,737 (Q2)

[Peritumoral immune infiltrates in primary tumours are not associated with the presence of axillary lymph node metastasis in breast cancer: a retrospective cohort study](#)

López C, Bosch-Príncep R, Orero G, Fontoura Balagueró L, Korzynska A, García-Rojo M, Bueno G, Fernández-Carrobles MDM, Roszkowiak L, Callau Casanova C, Salvadó-Usach MT, Jaén Martínez J, Gibert-Ramos A, Roso-Llorach A, Gras Navarro A, Berenguer-Poblet M, Llobera M, Gil Garcia J, Tomás B, Gestí V, Laine E, Plancoulaine B, Baucells J, Lejeune M. PeerJ Sep 2;8:e9779. doi: 10.7717/peerj.9779.. FI:2,379 (Q1)

[Impact of Implementing a Dyslipidemia Management Guideline on Cholesterol Control for Secondary Prevention of Ischemic Heart Disease in Primary Care.](#)

Forcadell Drago E, Dalmau Llorca MR, Aguilar Martín C, Ferreira-González I, Hernández Rojas Z, Gonçalves AQ, López-Pablo C. *Int J Environ Res Public Health.* 2020 Nov 19;17(22):E8590.. FI:1,916 (Q2)

[Coping Strategies, Quality of Life, and Neurological Outcome in Patients Treated with Mechanical Thrombectomy after an Acute Ischemic Stroke.](#)

S Reverté-Villarroya, A Dávalos, S Font-Mayolas, M Berenguer-Poblet, E Sauras-Colón, C López-Pablo, E Sanjuan-Menéndez, L Muñoz-Narbona, R Suñer-Soler. *Int J Environ Res Public Health.* 2020 Aug 19;17(17):6014.. FI:1,916 (Q2)

[Clustered nuclei splitting based on recurrent distance transform in digital pathology images.](#)

Roszkowiak LP, Korzynska A, Pijanowska D, Bosch R, Lejeune M, López C. *EURASIP Journal on Image and Video Processing* 26 (2020), 2020. FI:1,474 (Q2)

[Developing indicators for quality assurance in cytopathology.](#)

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[Hyperspectral imaging and deep learning for the detection of breast cancer cells in digitized histological images.](#)

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[Conditional generative adversarial network for synthesizing hyperspectral images of breast cancer cells from digitized histology.](#)

Halicek M, Ortega S, Fabelo H, Lopez C, Lejeune M, Callico GM, Fei B. *Proc SPIE Int Soc Opt Eng.* 2020 Feb. FI:0,45 ()

[Differential characteristics of the typical and atypical advanced interatrial block](#)

Gentille-Lorente D, Salvadó-Usach T. *Arch Cardiol Mex.* 2020;90(3):266-273. FI:0,22 (Q4)

[Clinical, electrical and echocardiographic characteristics of patients with advanced interatrial block]

Gentille-Lorente D, Salvadó-Usach T. *Arch Cardiol Mex.* 2020 Nov 24;91(1):135-138. FI:0,22 (Q4)

[An integral view of cancer (III). Evaluation of new biomarkers and treatment strategies]

Noguera R, Burgos-Panadero R, Lucantoni F, de la Cruz-Merino L, Álvaro Naranjo T. *Rev Esp Patol Apr-Jun 2020;53(2):88-99.* FI:0,202 (Q4)

2) Grupo de Investigación Oncológica, Traslacional, Epidemiológica y Clínica (GIOTEC)



Responsables del grup: Josep Gumà Padró i Joan Lluís Borràs Balada

Línes d'investigació

- Recerca clínica
- Recerca epidemiològica
- Recerca bàsica i traslacional
- Recerca en psicooncologia

Membres del grup

- Responsable de grup: Joan Lluís Borràs Balada, Josep Gumà Padró
- Responsable de línia de recerca: Jaume Galceran Padrós, Sandra Guaita Esteruelas, Francesc Riu Ferrando, Marta Rodríguez Balada, Agustina Sirgo Rodríguez
- PhD: Xavier Cardó Moreno, David Parada Domíngues, Karla Peña González, Bàrbara Roig Bourgine
- Investigador/a pre-doctoral: José Adrià Cebrián, Clara Beatriz Lucia Gozálvez
- MD: Cinta Albacar Miró, Kepa Amillano Parraga, David Ricardo Bottaro Parra, Inés Cabezas Montero, Cristina Martí Blanco, Francisca Martínez Madueño, María Masvidal Hernández, Mireia Melé Olivé, Sandra Merino Varela, María José Miranda Pallares, Vanesa Morente Laguna, Félix

Muñoz Boza, Sergio Peralta Muño, Rosana Queralt Escarré, Jana Repkovà, Dulce Rodríguez Mesa, Beatriz Rubio Cantavella, Belen Ruiz Aguado, Sara Serrano Solares

• Investigadors/es sènior: Alberto Ameijide Sánchez, Jàmnica Bigorra Román, Marià Carulla Areste, Xavier Collado Castro, Sara Fernández Castillejo, Cristina Miracle Huguet, Clàudia Pla González, Francina Saladié Roiget, Marta Vilaró Pacheco

• DUI: Berta Caballé Gutiérrez, Immaculada Grau Farrús, Francesca Isern Català, Araceli Jiménez López, Sandra Mateu Riba, Margarita Moreno Mancho, Montserrat Querol Garcia, M. Dolors Salsench Boronat, Mònica Salvat Casas, Montse Sánchez Galino

• Tècnic/a: Anna Alimbau Sendros, Alexandra Cabré Pedrosa, Lydia Díaz Suárez, Laia Llauradó March

Publicacions científiques

[A phase II randomized, multicenter, open-label trial of continuing adjuvant temozolamide beyond six cycles in patients with glioblastoma \(GEINO 14-01\).](#)

5. Balana C, Vaz MA, Sepúlveda JM, Mesia C, Del Barco S, Pineda E, Muñoz-Langa J, Estival A, de Las Peñas R, Fuster J, Gironés R, Navarro LM, Gil-Gil M, Alonso M, Herrero A, Peralta S, Olier C, Perez-Segura P, Covela M, Martinez-García M, Berrocal A, Gallego O, Luque R, Perez-Martín FJ, Esteve A, Munne N, Domenech M, Villa S, Sanz C, Carrato C. Neuro Oncol. 2020 Apr 24: noaa107. FI: 10,247 (Q1)

[Palbociclib and Trastuzumab in HER2-Positive Advanced Breast Cancer: Results from the Phase II SOLTI-1303 PATRICIA Trial.](#)

6. Ciruelos E, Villagrasa P, Pascual T, Oliveira M, Pernas S, Paré L, Escrivá-de-Romaní S, Manso L, Adamo B, Martínez E, Cortés J, Vazquez S, Perelló A, Garau I, Melé M, Martínez N, Montaño A, Bermejo B, Morales S, Echarri MJ, Vega E, González-Farré B, Martínez D, Galván P, Canes J, Nuciforo P, Gonzalez X, Prat A.

Clin Cancer Res. 2020 Nov
15;26(22):5820-5829. FI:10,107 (Q1)

[Missing data imputation and synthetic data simulation through modeling graphical probabilistic dependencies between variables \(ModGraProDep\): An application to breast cancer survival](#)

Vilardell M, Buxo M, Clries R, Martinez JM, Garcia G, Ameijide A, Font R, Civit S, Marcos-Gragera R, Vilardell ML, Carulla M, Espinas JA, Galceran J, Izquierdo A, Borras JM. Artif Intell Med 2020 Jul.
FI:4,383 (Q1)

[Rare thyroid malignancies in Europe: Data from the information network on rare cancers in Europe \(RARECARENt\).](#)

Locati L, Cavalieri S, Dal Maso L, Busco S, Anderson L, Botta L, Bento MJ, Carulla M, Chirlaque López MD, Fusco M, Guevara M, Innos K, BørgeJohannesen T, Micallef R, Minicozzi P, Panato C, Petrova D, Rubio Casadevall J, Smailyte G, Vitale MF, Trama A. Oral Oncol 2020 Sep;108:104766.
FI:3,979 (Q1)

[Liquid-based cytological and immunohistochemical study of nasopharyngeal swab from persons under investigation for SARS-CoV-2 infection.](#)
2. Parada D D, Peña KB, Gumá J, Guilarte C, Riu F. Histopathology. 2020 Sep 24:10.1111/his.14257. FI:3,626 (Q1)

[Long-term follow-up of patients with nodular lymphocyte predominant Hodgkin lymphoma: A report from the Spanish Lymphoma Oncology Group.](#)

Núñez-García B, Rodríguez-Pertierra M, Sequero S, Carvajal LG, Ruano-Ravina A, Aguiar D, Gumá J, Blanco CQ, García Arroyo FR, Garitaonaindia Y, Provencio Z, Calvo V, González-San Segundo C, Provencio M. Hematol Oncol. 2020 Dec 29.
FI:3,609 (Q2)

[Incidence and Clinical Pattern of Contralateral Synchronous and Metachronous Germ Cell Testicular Cancer.](#)

1. Maroto P, García Del Muro X, Valverde C, Pinto A, Sanchez A, Guma J, Alonso T, Martínez Del Prado P, Vazquez S, Mellado B, Aparicio J, Fernandez-Aramburo A, Girones R, Terrasa J; Spanish Germ Cell

Cancer Group. Urol Oncol. 2020 Nov 11:S1078-1439(20)30573-1. FI:2,882 (Q1)

[A population perspective on the use of external beam radiotherapy in Catalonia, Spain.](#)

Corral J, Solà J, Galceran J, Marcos-Gragera R, Carulla M, Izquierdo Á, Vilardell L, Llauradó L, Espinàs J, Borras JM. Clin Transl Oncol. 2020 Dec;22(12):2222-2229.
FI: 2,737 (Q2)

[Patterns of relapse and treatment outcome after active surveillance or adjuvant carboplatin for stage I seminoma: a retrospective study of the Spanish Germ Cell Cancer Group.](#)

9. Aparicio J, García Del Muro X, Maroto P, Terrasa J, Castellano D, Bastús R, Gumà J, Sagastibetza N, Durán I, Ochenduszko S, Meana JA, García-Sánchez J, Arranz JA, Gironés R, Germà JR. Clin Transl Oncol. 2020 May 27. FI:2,737 (Q2)

[Population-based risk assessment of second primary cancers following a first head and neck cancer: patterns of association and difficulties of its analysis.](#)

3. Rubió-Casadevall J, Galceran J, Ameijide A, Puigdemont M, Llauradó L, Marruecos J, Izquierdo A, Carulla M, Borràs JL, Marcos-Gragera R, Gumà J. Clin Transl Oncol. 2020 Aug 19. FI:2,737 (Q2)

[Quality of life of patients with metastatic pancreatic adenocarcinoma initiating first-line chemotherapy in routine practice.](#)

7. Laquente B, Macarulla T, Bugés C, Martín M, García C, Pericay C, Merino S, Visa L, Martín T, Pedraza M, Carnero B, Guardeño R, Verdaguer H, Mut A, Vilanova D, García A. BMC Palliat Care. 2020 Jul 10;19(1): 103. FI:2,015 (Q1)

[Differences in breast cancer risk after benign breast disease by type of screening diagnosis.](#)

Louro J, Roman M, Posso M, Comerma L, Vidal C, Saladie F, Alcantara R, Sanchez M, Quintana MJ, del Riego J, Ferrer J, Penalva L, Bargallo X, Prieto M, Sala M, Castells X. Breast 2020 Dec;54:343-348.
FI:1,991 (Q1)

Circulating microRNAs modulating glycolysis as non-invasive prognostic biomarkers of HNSCC.

Avilés-Jurado FX, Muñoz C, Meler C,
Flores JC, Gumà J, Benaiges E, Mora J,
Camacho M, León X, Vilaseca I, Terra X.
Eur Arch Otorhinolaryngol. 2020 Jul 31.
FI:1,809 (Q1)

[Excess mortality among breast cancer patients in early stages in Tarragona and Gerona (Spain)]

Clèries R, Ameijide A, Buxó M, Vilardell M,
Martínez JM, Marcos-Gragera R, Vilardell
ML, Carulla M, Espinàs JA, Galceran J,
Borràs JM, Izquierdo Á. Gac Sanit 2020
Jul-Aug. FI:1,564 (Q3)

Protocolo del Estudio Poblacional Multinivel de las Desigualdades Socioeconómicas en la Distribución Geográfica de la Incidencia, la Mortalidad y la Supervivencia Neta del Cáncer en España: Estudio DESOCANES.
Luque-Fernández MA, Redondo-Sánchez
D, Fernández P, Salamanca-Fernández E,
Marcos-Gragera R, Guevara M, Carulla M,
Jiménez R, Núñez O, Sabater C, López de
Munain A, Chirlaque MD, Mateos A,
Rodríguez-Barranco M, Espín J, Pollán M,
Sánchez MJ. Gac Sanit 2020 Jul. Epub
2020. FI:1,564 (Q3)

3) Grup d'investigació en Oncologia Radioteràpica

Línies d'investigació

- Identificació de biomarcadors i biosensors pronòstics i predictius de resposta en diferents tipus de càncer.
- Radiogenòmica en càncer de pulmó i càncer de mama.
- Efectes antiinflamatoris de la radioteràpia en patologia benigne.
- Estudis sobre els avenços tecnològics de la radioteràpia.

Membres del grup

- Responsable de grup: Meritxell Arenas Prat
- PhD, MD: Domènec Puig Valls, David Gómez, Iván Henríquez, Víctor Hernández
- Investigadors/es pre-doctoral: Elisabet Rodríguez Tomàs
- MD: Johana Acosta, Junior Gómez, Laura Torres, Miguel Árquez, Fredy Castaño, Yolanda López Sánchez, Jorge Trilla Martín, Mauricio Murcia, Mònica Argúis
- Infermer/a: Irene Oliván, César Esteban, Rafa León
- Administratiu/va: Núria Cabré

Publicacions científiques

[Is it time to redefine the role of low-dose radiotherapy for benign disease?](#)
 Montero A, Sabater S, Rödel F, Gaapl US, Ott OJ, Seegenschmiedt MH, Arenas M. Ann Rheum Dis. 2020 Mar;79(3):e34.. FI:16,102 (Q1)

[Electrochemical immunoplatform to improve the reliability of breast cancer diagnosis through the simultaneous determination of RANKL and TNF in serum](#)
 A Vallverde, V Serafín, J Garoz, A Montero-Calle, A González-Cortés, M Arenas, J Camps, JM Pingarrón. Sensors and Actuators B: Chemical. FI:7,29 (Q1)

[Older cancer patients during the COVID-19 epidemic: Practice proposal of the international geriatric radiotherapy group](#)
 NP Nguyen, V Vinh-Hung, B Baumert, A Zamagni, M Arenas, U Karlsson, J Thariat. Cancers. FI:5,968 (Q1)

[The 2018 assisi think tank meeting on breast cancer: International expert panel white paper](#)
 Arenas M, Selek U, Kaidar-Person O, Perrucci E, Montero Luis A, Boersma L, Coles C, Offersen B, Meattini I, Bölkbaşı Y, Leonardi MC, Pfeffer R, Cutuli B, Vidalí C, Franco P, Kouloulias V, Masiello V, Rivera S, Bourgier C, Ciabattoni A, Lancellotta V, Trigo L, Valentini V, Poortmans P, Aristei C. Crit Rev Oncol Hematol. 2020 Jul. FI:5,833 (Q1)

[Breast tumor segmentation and shape classification in mammograms using generative adversarial and convolutional neural network](#)
 Vivek Kumar Singh, Hatem A Rashwan, Santiago Romani, Farhan Akram, Nidhi Pandey, Md Mostafa Kamal Sarker, Adel Saleh, Meritxell Arenas, Miguel Arquez, Domenec Puig, others. Expert Systems with Applications. FI:5,452 (Q1)

[Whole-lung Low Dose Irradiation for SARS-CoV2 Induced Pneumonia in the Geriatric Population: An Old Effective Treatment for a New Disease? Recommendation of the International Geriatric Radiotherapy Group](#)
 PC Lara, NP Nguyen, D Macias-Verde, M Arenas, J Thariat. Aging and Disease. FI:5,402 (Q1)

[Electrochemical immunoplatform to assist in the diagnosis and classification of breast cancer through the determination of matrix-metalloproteinase-9](#)
 B Arévalo, A Ben Hassine, A Vallverde, V Serafín, J Garoz, A Montero-Calle, A González-Cortés, M Arenas, S Campuzano, J Camps, JM Pingarrón. Talanta 15/12/2020. FI:5,339 (Q1)

[Low dose whole lung radiotherapy for older patients with corona virus 19 disease \(COVID-19\) pneumonitis: practical by the International Geriatric Radiotherapy Group](#)
 N Nguyen, M Arenas, T Vuong, A Zamagni, V Vinh-Hung, P Lara, M Bonet, B Baumert.

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