

SCIENTIFIC AND TECHNOLOGICAL PROFILE OF THE GROUP

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| | | RICORS Code RD21/0012/0002 |
| Thematic area: | PRIMARY CARE, CHRONICITY AND HEALTH PROMOTION | |
| Programme name: | PRIMARY CARE PROMOTION OF MATERNAL CHILD AND HEALTH FOR PREVENTION OF ADULT CHRONIC DISEASES | |
| Group leader: | Elvira Larqué Daza | |
| Applicant Institution: | Fundación para la Formación e Investigación Sanitarias en la Región de Murcia (FFIS) | |
| Working Institution: | Instituto Murciano de Investigación Biosanitaria (IMIB) | |
| PI Work Institution: | Elvira Larqué Daza | |

Participants

| Researcher | Family Name (s) | First Name (s) | Work Institution | Position |
|------------|-------------------|----------------|------------------|-----------------|
| 1 | Larqué Daza | Elvira | IMIB-UMU | Statutory staff |
| 2 | Prieto Sánchez | María Teresa | IMIB-UMU | Contracted |
| 3 | Blanco Carnero | José Eliseo | IMIB-SMS | Statutory staff |
| 4 | Zornoza Moreno | Matilde | IMIB-SMS | Statutory staff |
| 5 | López Soler | Concepción | IMIB-UMU | Statutory staff |
| 6 | De Paco Matallana | Catalina | IMIB-SMS | Statutory staff |
| 7 | Delgado Marín | Juan Luis | IMIB-SMS | Statutory staff |
| 8 | | | I | Statutory staff |

RICORS Code RD21/0012/0002

PUBLICATIONS

Up to twenty selected publications related to the RICORS's Thematic Area (published in the last five years)

Gázquez A, Giménez-Bañón MJ, Prieto-Sánchez MT, Martínez-Graciá C, Suárez C, Santaella-Pascual M, Galdo-Castiñeira L, Ballesteros-Meseguer C, Vioque J, Martínez-Villanueva M, Avilés-Plaza F, Noguera-Velasco JA, Morales E, García-Marcos L, Larqué E, On Behalf Of The Nela Study Group. Self-Reported DHA Supplementation during Pregnancy and Its Association with Obesity or Gestational Diabetes in Relation to DHA Concentration in Cord and Maternal Plasma: Results from NELA, a Prospective Mother-Offspring Cohort. *Nutrients*. 2021 Mar 4;13(3):843. doi: 10.3390/nu13030843. PMID: 33806689. IF: 4.546. Q1 Nutrition & Metabolism

Gómez-Roig MD, Pascal R, Cahuana MJ, García-Algar O, Sebastiani G, AndreuFernández V, Martínez L, Rodríguez G, Iglesia I, Ortiz-Arrabal O, Mesa MD, Cabero MJ, Guerra L, Llurba E, Domínguez C, Zanini MJ, Foraster M, Larqué E, Cabañas F, Lopez-Azorín M, Pérez A, Loureiro B, Pallás-Alonso CR, Escuder-Vieco D, Vento. M. Environmental Exposure during Pregnancy: Influence on Prenatal Development and Early Life: A Comprehensive Review. *Fetal Diagn Ther*. 2021 Mar 18:1-13. doi: 10.1159/000514884. PMID: 33735860. IF: 2.095 Posición: 42/82 Q3 Obstetrics & Gynecology

Gázquez A, Larqué E. Towards an Optimized Fetal DHA Accretion: Differences on Maternal DHA Supplementation Using Phospholipids vs. Triglycerides during Pregnancy in Different Models. *Nutrients*. 2021 Feb 4;13(2):511. doi: 10.3390/nu13020511. PMID: 33557158. IF: 4.546. Q1 Nutrition & Metabolism

Cutillas-Tolín A, Arense-Gonzalo JJ, Mendiola J, Adoamnei E, Navarro-Lafuente F, Sánchez-Ferrer ML, Prieto-Sánchez MT, Carmona-Barnosi A, Vioque J, Torres-Cantero AM. *Nutrients*. 2021 Jan 22;13(2):313. doi: 10.3390/nu13020313. PMID: 33499268. IF: 4.546. Q1 Nutrition & Metabolism

Tan MY; Poon LC; Rolnik DL; Syngelaki A; de Paco Matallana C; Akolekar R; et al. Prediction and prevention of small-for-gestational-age neonates: evidence from SPREE and ASPRE. *Ultrasound Obstet Gynecol*. 17 - 5, 2018. IF: 5.595 3/83 Q1 Gynecology & Obstetrics

Sánchez-Campillo M, Ruiz-Palacios M, Ruiz-Alcaraz AJ, Prieto-Sánchez MT, BlancoCarnero JE, Zornoza M, Ruiz-Pastor MJ, Demmelmair H, Sánchez-Solís M, Koletzko. B, Larqué E. Child Head Circumference and Placental MFSD2a Expression Are Associated to the Level of MFSD2a in Maternal Blood During Pregnancy. *Front Endocrinol (Lausanne)*. 2020 Feb 5;11:38. doi: 10.3389/fendo.2020.00038. eCollection 2020. PMID: 32117064. IF: 3.634 Position 47/145 Q2 Endocrinology

Mesa MD, Loureiro B, Iglesia I, Fernandez Gonzalez S, Llurba Olivé E, García Algar O, Solana MJ, Cabero Perez MJ, Sainz T, Martinez L, Escuder-Vieco D, Parra-Llorca A, Sánchez-Campillo M, Rodriguez Martinez G, Gómez Roig D, Perez Gruz M, Andreu-Fernández V, Clotet J, Sailer S, Iglesias-Platas I, López-Herce J, Aras R, Pallás-Alonso C, de Pipaon MS, Vento M, Gormaz M, Larqué Daza E, Calvo C, Cabañas F The Evolving Microbiome from Pregnancy to Early Infancy: A Comprehensive Review. *Nutrients*. 2020 Jan 2;12(1):133. doi: 10.3390/nu12010133. PMID: 31906588. IF: 4.546. Q1 Nutrition & Metabolism

Prieto-Sánchez MT, Blanco-Carnero JE, Ruiz-Palacios M, Pagán A, Ruiz-Alcaraz AJ, Larqué E. Increased Alkaline Phosphatase in Cord Blood of Obese Diabetic Mothers Is Associated to Polyunsaturated Fatty Acid Levels. *Ann Nutr Metab*. 2019 Nov 13:1-10. doi: 10.1159/000504404. PMID: 31722334. IF: 3.051 Posición: 36/81 (Q2) Nutrition & Dietetics

Rolnik DL; Wright D; Poon LCY; Syngelaki A; O'Gorman N; de Paco Matallana C; et al. ASPRE trial: performance of screening for preterm pre-eclampsia. *Ultrasound Obstet Gynecol*. 50 - 4, 2017. DOI: <10.1002/uog.18816>. IF: 5.654 3/83 Q1 Gynecology & Obstetrics

Koletzko B, Godfrey KM, Poston L, Szajewska H, van Goudoever JB, de Waard M, Brands B, Grivell RM, Deussen AR, Dodd JM, Patro-Golab B, Zalewski BM; EarlyNutrition Project Systematic Review Group. Nutrition During Pregnancy, Lactation and Early Childhood and its Implications for Maternal and Long-Term Child Health: The Early Nutrition Project Recommendations. *Ann Nutr Metab*. 2019;74(2):93-106. doi: 10.1159/000496471. PMID: 30673669. IF: 3.051 Posición: 36/81 (Q2) Nutrition & Dietetics

Larqué E, Labayen I, Flodmark CE, Lissau I, Czernin S, Moreno LA, Pietrobelli A, Widhalm K. From conception to infancy - early risk factors for childhood obesity. *Nat Rev Endocrinol*. 2019 Aug;15(8):456-478. doi: 10.1038/s41574-019-0219-1. Epub 2019 Jul 3. Review. Impact Factor: 20.265, position 2/143 Q1 - Endocrinology & Metabolism

Gázquez A, Prieto-Sánchez MT, Blanco-Carnero JE, van Harskamp D, Perazzolo S, Oosterink JE, Demmelmair H, Schierbeek

H, Sengers BG, Lewis RM, van Goudoever JB, Koletzko B, Larqué E. In vivo kinetic study of the materno-fetal fatty acid transfer in obese and normal weight pregnant women. *J Physiol*. 2019 Jul 9. doi: 10.1113/JP278146. PMID: 31287560. Impact Factor: 4.547 Posición 11/81 Q1 Physiology

Gázquez A, Prieto-Sánchez MT, Blanco-Carnero JE, Ruíz-Palacios M, Nieto A, van Harskamp D, Oosterink JE, Schierbeek H, van Goudoever JB, Demmelmair H, Koletzko B, Larqué E. Altered materno-fetal transfer of 13C-polyunsaturated fatty acids in obese pregnant women. *Clin Nutr*. 2019 Apr 18. pii: S0261-5614(19)30187-6. doi: 10.1016/j.clnu.2019.04.014. PMID: 31029479. Impact Factor: 6.360 Posición: 9/89 Q1 Nutrition & Dietetics

Nicolaidis KH; Syngelaki A; Poon LC; de Paco Matallana C; Plasencia W; Molina FS; et al. Cervical pessary placement for prevention of preterm birth in unselected twin pregnancies: a randomized controlled trial. *Am J Obstet Gynecol*. 214 - 1, 2016. Disponible en Internet en: <10.1016/j.ajog.2015.08.051>. IF: 5.226 2/80 Q1 Gynecology & Obstetrics.

Gázquez A, Uhl O, Ruíz-Palacios M, Gill C, Patel N, Koletzko B, Poston L, Larqué E; UPBEAT consortium. Placental lipid droplet composition: Effect of a lifestyle intervention (UPBEAT) in obese pregnant women. *Biochim Biophys Acta Mol Cell Biol Lipids*. 2018 Sep;1863(9):998-1005. doi: 10.1016/j.bbalip.2018.04.020. PMID: 29702246. IF: 4.402 Posición: 68/299 Q1 Biochemistry & Molecular Biology.

Larqué E, Morales E, Leis R, Blanco-Carnero JE. Maternal and Foetal Health Implications of Vitamin D Status during Pregnancy. *Ann Nutr Metab*. 2018;72(3):179-192. doi: 10.1159/000487370. Epub 2018 Mar 13. PMID: 29533937. IF: 3.051 Posición: 36/81 (Q2) Nutrition & Dietetics

Sánchez-Ferrer ML, Mendiola J, Hernández-Peñalver AI, Corbalán-Biyang S, Carmona-Barnosi A, Prieto-Sánchez MT, Nieto A, Torres-Cantero AM. Presence of polycystic ovary syndrome is associated with longer anogenital distance in adult Mediterranean women. *Hum Reprod*. 2017 Nov 1;32(11):2315-2323. doi: 10.1093/humrep/dex274. PMID: 29025054. IF: 5.733 4/82 Q1 Obstetrics & Gynecology

Araújo-Vilar D, Domingo-Jiménez R, Ruibal Á, Aguiar P, Ibáñez-Micó S, Garrido-Pumar M, Martínez-Olmos MÁ, López-Soler C, Guillín-Amarelle C, González-Rodríguez M, Rodríguez-Núñez A, Álvarez-Escudero J, Liñares-Paz M, González-Méndez B, Rodríguez-García S, Sánchez-Iglesias S. Association of metreleptin treatment and dietary intervention with neurological outcomes in Celia's encephalopathy. *Eur J Hum Genet*. 2018 Mar;26(3):396-406. doi: 10.1038/s41431-017-0052-8. PMID: 29367704. IF: 3.657 57/178 Q2 Genetics & Heridity

Prieto-Sánchez MT, Ruíz-Palacios M, Blanco-Carnero JE, Pagan A, Hellmuth C, Uhl O, Peissner W, Ruiz-Alcaraz AJ, Parrilla JJ, Koletzko B, Larqué E. Placental MFSD2a transporter is related to decreased DHA in cord blood of women with treated gestational diabetes. *Clin Nutr*. 2017 Apr;36(2):513-521. doi: 10.1016/j.clnu.2016.01.014. Impact Factor: 6.360 Posición: 9/89 Q1 Nutrition & Dietetics.

Gázquez A, Hernández-Albaladejo I, Larqué E. Docosahexaenoic acid supplementation during pregnancy as phospholipids did not improve the incorporation of this fatty acid into rat fetal brain compared with the triglyceride form. *Nutr Res*. 2017 Jan;37:78-86. doi: 10.1016/j.nutres.2016.12.006. PMID: 28215317. IF: 3.706 (2016) Q1 Nutrition and Dietetics 20/81

RICORS Code RD21/0012/0002

INTERNATIONAL AND NATIONAL RESEARCH PROJECTS
(Funded in the last five years)

1. KBBE-2011-5-289346 Long term effects of early nutrition on later health (EARLY NUTRITION).
Entidad financiadora: 7th Framework of the Europe Union (KBBE-2011-5-289346)
Duración: desde: 01/02/ 2012 hasta: 31/01/2017
Cuantía de la Subvención: 209.464 euros
Investigador responsable: Elvira Larqué Daza
Número de investigadores participantes : 8 José Eliseo Blanco Camero, María teresa Prieto Sánchez.
- 2 PIE15/00051. Unraveling in utero determinants predicting lung function in infants: A step for Prenatal prevention of asthma.
Entidad Financiadora: Integrated Projects of Excellence. Instituto de Salud Carlos III.
Duración 4 años: 2016-2019. Investigador coordinador: Luis V. García-Marcos Álvarez. Investigador Principal of individual Project 4: Elvira Larqué.
Investigador colaborador: María Teresa Prieto Sánchez
Centro: Instituto Murciano de Investigación Biosanitaria (IMIB).
Importe: 910.250€.
- 3 SAF2015-69265-C2-1R. Búsqueda De Marcadores Precoces Del Neurodesarrollo En Hijos De Madres Con Diabetes Gestacional (GD-BRAIN).
Entidad Financiadora: Ministerio de Economía y Competitividad (MINECO). Programa de Retos de la Sociedad.
Cantidad Financiada: 100.000 euros.
Duración 5 años: 2016-2020.
Coordinador: Elvira Larqué Daza. Investigador Principal Subproyecto 1: Elvira Larqué Daza. Universidad de Murcia.
Investigador colaborador: 11, Concepción López Soler, Matilde Zornoza Moreno.
- 4- CP14/00046. Mediterranean diet in pregnancy: antioxidant defense and lung function, asthma and allergy in pregnant women and the offspring: a cohort study.
Entidad Financiadora: Miguel Servet Programme. Instituto de Salud Carlos III. Cantidad total financiada: 121.500 euros. Duración 3 años: 2015-2017. Investigador colaborador: Elvira Larqué. Investigador Principal: Eva Morales Bartolomé
5. PI19/00863: "DESCUBRIENDO MARCAS MOLECULARES DEL USO DE SUPLEMENTOS DURANTE EL EMBARAZO: IMPLICACIONES DE SALUD PUBLICA PARA LA SALUD MATERNO-FETAL (MARKS-UP)"
Entidad Financiadora: Instituto de Salud Carlos III.
Investigador Principal: MORALES BARTOLOME, EVA.
Duración: 3 años: 01/01/2020 - 31/12/2022.
Importe total concedido: 52.000,00 euros.
Investigador Colaborador: María Teresa Prieto Sánchez
6. "Convocatoria Intramural de Proyectos CIBERESP de 2020":
Título: ESP20PI05. Evaluation of the effectiveness of dietary and lifestyle recommendations to reduce exposure to environmental chemicals in pregnant women: A pilot pre- post study.
Entidad Financiadora: Instituto de Salud Carlos III.
IP: Juan Pedro Arrebola Moreno; colIP: Jaime Mendiola Olivares
Duración: 2020-2021
Dotación: 50.000 €.
Investigador colaborador: María Teresa Prieto Sánchez
7. PI13/01237. "ESTUDIO DE CASOS Y CONTROLES DE BASE POBLACIONAL EN OVARIO POLIQUÍSTICO: ANÁLISIS EPIDEMIOLÓGICO DE LOS DETERMINANTES Y CONSECUENCIAS CLÍNICAS EN LA SALUD DE LA MUJER"
Entidad Financiadora: Instituto de Salud Carlos III.
Investigador Principal: TORRES CANTERO, ALBERTO MANUEL.
Duración: 3 años: 01/01/2014 - 31/12/2017.
Importe total concedido: 65.500,00 euros.
Investigador colaborador: María Teresa Prieto Sánchez.
- 8 - PI18/01027. Early vaginal progesterone for the preVention of spontaneous prEterm birth iN TwinS: A randomised, placebo controlled, double-blinded trial – 'EVENTS'.
Entidad Financiadora: Instituto de Salud Carlos III.

Duración 3 años: 2019-2021.

IP: Katy De Paco Matallana.

Importe: 77.000€.

Investigador colaborador: José Eliseo Blanco Carnero.

9 PI17/01350. Estudio controlado aleatorizado con pravastatina vs placebo para la prevención de preeclampsia (Estudio STATIN).

Entidad Financiadora: Instituto de Salud Carlos III.

Duración 3 años: 01/01/2018-30/06/2021.

IP: Juan Luis Delgado. Importe: 123.420€.

Investigador Colaborador: José Eliseo Blanco Carnero, Catalina de Paco Matallana.

10 H2020-SC6-CO-CREATION-2016 2017. Co-creation demand driven (inDEMAND)

Entidad financiadora: Comisión Europea. Programa Horizonte 2020

Número de expediente: 763735 (H2020-SC6-CO-CREATION-2016 2017)

IP: Gorka Sánchez Nanclares

Periodo: 01/09/2017 hasta 31/08/2019

Cuantía: 2,5 millones de Euros

Miembros del Equipo: Celia Román García, Anibal Nieto Díaz, Jose Eliseo Blanco, Carnero, Fernando Araico Rodríguez, Pablo Serrano Rojas, María José Contreras Gil, Nieves Muñoz Rodríguez, Francisca Postigo Mota, María José Martínez Ros.

11 Estudio de reproducibilidad y validación de la tele-ecografía en 3 dimensiones aplicada a la neurosonografía fetal-cod: NEUROSOFE-3D

Entidad/es financiadora/s: Instituto de Salud Carlos III

Nombres investigadores principales (IP, Co-IP,...): Nerea Maiz Elizaran (IP); Catalina de Paco Matallana (Co-IP)

Nº de investigadores/as: 17

Fecha de inicio-fin: 01/01/2014 - 30/06/2018

Cuantía total: 42.625 €

12 Combined multi-marker screening and randomised patient treatment with aspirin for evidence-based pre-eclampsia prevention. ASPRE

European Union Framework 7

IP: Catalina de Paco Matallana (IP)

Investigador colaborador: Jose Eliseo Blanco Carnero, Juan Luis Delgado Marin

Fecha de inicio-fin: 11/07/2014 - 20/10/2016

Cuantía total: 62.000 €

RICORS Code RD21/0012/0002

PATENTS

(Granted and licensed patents in the last five years. Include also licensed know-how)

RICORS Call: Scientific and Technological Profile of the Participating Groups

Aim: describe the major contributions of the different participating groups in terms of papers, funding and patents.

! The structure of this template has been designed to ensure that the important aspects of your scientific and technological profile are presented in a way that will enable experts to make an effective assessment against the evaluation criteria.

! The font type and size recommended is Arial 9 points. Please respect the page limits and do not take it as a target either! It is in your interest to keep your text as concise as possible, since experts rarely view unnecessarily long documents in a positive light.

Section 1. List of Participating Groups. PI participants.

! Remember

PI's Family Name | PI's First name(s) | PI's Work Institution | Position *
*Position: officer, statutory staff; contracted; fellow

Section 2. Papers

Indicate: Authors; Title; Journal; PMID; Type of paper; Publication year; Impact Factor (JCR Thomson Reuters) and times cited.

Section 3. International and National Research Projects

! Do not include regional or privately funded projects.

Indicate: Project ID; Name of the PI; Title; Funding Agency; Amount of Funding & Duration.

Section 4. Patents

Indicate: Applicant; Title; Inventors; Patent Office; Date of application number; Date of grant and Entity-Organization Exploiting the Patent.