

SCIENTIFIC AND TECHNOLOGICAL PROFILE OF THE GROUP

		RICORS Code RD21/0012/0008
Thematic area:	PRIMARY CARE, CHRONICITY AND HEALTH PROMOTION	
Programme name:	PRIMARY CARE PROMOTION OF MATERNAL, CHILD AND WOMEN'S HEALTH FOR PREVENTION OF ADULT CHRONIC DISEASES	
Group leader:	María Dolores Mesa García	
Applicant Institution:	Fundación para la Investigación Biosanitaria de Andalucía Oriental - Alejandro Otero (FIBAO)	
Working Institution:	ibs.GRANADA (Instituto de Investigación Biosanitaria de Granada)	
PI Work Institution:	Universidad de Granada	

Participants

Researcher	Family Name (s)	First Name (s)	Work Institution	Position
1	María Dolores	Mesa	ibs.GRANADA	Fellow
2	José	Maldonado	ibs.GRANADA	Fellow
3	Jonatan	Ruiz	University of Granada	Contracted
4	Francisco B.	Ortega	University of Granada	Contracted
5	M ^a Vega	Almazán	ibs.GRANADA	Fellow
6	Estefanía	Martín	ibs.GRANADA	Fellow
7	José Antonio	Hurtado	ibs.GRANADA	Fellow
				Select

PUBLICATIONS

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

1. Henriksson H, Henriksson P, Tynelius P, Ekstedt M, Berglind D, Labayen I, Ruiz JR, Lavie CJ, Ortega FB. Cardiorespiratory fitness, muscular strength, and obesity in adolescence and later chronic disability due to cardiovascular disease: a cohort study of 1 million men. *Eur Heart J.* 2020; 14;41(15):1503-1510. PMID: 31710669. Original work. IF: 22.673. No. of citations: 14
2. Nyström CD, Henriksson P, Martínez-Vizcaíno V, Medrano M, Cadenas-Sanchez C, Arias-Palencia NM, Löf M, Ruiz JR, Labayen I, Sánchez-López M, Ortega FB. Does Cardiorespiratory Fitness Attenuate the Adverse Effects of Severe/Morbid Obesity on Cardiometabolic Risk and Insulin Resistance in Children? A Pooled Analysis. *Diabetes Care.* 2017; 40(11):1580-1587. PMID: 28939688. Original work. IF: 16.019. No. of citations: 16
3. Nyström CD, Sandin S, Henriksson P, Henriksson H, Trolle-Lagerros Y, Larsson C, Maddison R, Ortega FB, Pomeroy J, Ruiz JR, Silfvernagel K, Timpka T, Löf M. Mobile-based intervention intended to stop obesity in preschool-aged children: the MINISTOP randomized controlled trial. *Am J Clin Nutr.* 2017; 105(6):1327-1335. MID: 28446496. Original work. IF: 6.549. No. of citations: 46
4. Esteban-Cornejo I, Cadenas-Sanchez C, Contreras-Rodriguez O, Verdejo-Roman J, Mora-Gonzalez J, Migueles JH, Henriksson P, Davis CL, Verdejo-Garcia A, Catena A, Ortega FB. A whole brain volumetric approach in overweight/obese children: Examining the association with different physical fitness components and academic performance. The ActiveBrains project. *Neuroimage.* 2017; 159:346-354. doi: 10.1016/j.neuroimage.2017.08.011. IF: 5.902. No. of citations: 56.
5. Gomez-Llorente MA, Martínez-Cañavate A, Chueca N, Rico MC, Romero R, Anguita-Ruiz A, Aguilera CM, Gil-Campos M, Mesa MD, Khakimov B, Morillo JA, Gil Á, Camacho J, Gomez-Llorente C. A Multi-Omics Approach Reveals New Signatures in Obese Allergic Asthmatic Children. *Biomedicines.* 2020; 18;8(9):359. PMID: 32961859. Original work. IF: 5.309. No. of citations: 1.
6. Rupérez AI, Mesa MD, Anguita-Ruiz A, González-Gil EM, Vázquez-Cobela R, Moreno LA, Gil Á, Gil-Campos M, Leis R, Bueno G, Aguilera CM. Antioxidants and Oxidative Stress in Children: Influence of Puberty and Metabolically Unhealthy Status. *Antioxidants (Basel).* 2020; 15;9(7):618. PMID: 32679739. Original work. IF: 5.014. No. of citations: 2.
7. Moreno-Fernandez J, Sánchez-Martínez B, Serrano-López L, Martín-Álvarez E, Diaz-Castro J, Peña-Caballero M, Martín-Peregrina F, Alonso-Moya M, Maldonado-Lozano J, Ochoa JJ, Hurtado-Suazo JA. Enhancement of immune response mediated by oropharyngeal colostrum administration in preterm neonates. *Pediatr Allergy Immunol.* 2019; 30(2):234-241. PMID: 30444546. Original work. IF: 4.699. No. of citations: 8
8. Diaz-Castro, Javier; Muriel-Neyra, Carlota; Martin-Masot, Rafael; Moreno-Fernandez J, Maldonado J, Nestares T. Oxidative stress, DNA stability and evoked inflammatory signaling in young celiac patients consuming a gluten-free diet. *Eur J Nutr.* 2020; 59(4):1577-1584. PMID: 31144026. Original work. IF: 4.664. No. of citations: 5
9. Martín-Álvarez E, Diaz-Castro J, Peña-Caballero M, Serrano-López L, Moreno-Fernández J, Sánchez-Martínez B, Martín-Peregrina F, Alonso-Moya M, Maldonado-Lozano J, Hurtado-Suazo JA, Ochoa JJ. Oropharyngeal Colostrum Positively Modulates the Inflammatory Response in Preterm Neonates. *Nutrients.* 2020; 5;12(2):413. PMID: 32033312. Trabajo original. IF: 4.546. No. of citations: 3
10. Nestares T, Martín-Masot R, Labella A, Aparicio VA, Flor-Aleman M, López-Frías M, Maldonado J. Is a Gluten-Free Diet Enough to Maintain Correct Micronutrients Status in Young Patients with Celiac Disease? *Nutrients.* 2020; 21;12(3):844. PMID: 32245180. Original work. IF: 4.546. No. of citations: 2

11. Mesa MD, Loureiro B, Iglesia I, FernandezGonzalez 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, RodriguezMartinez G, Gómez Roig D, PerezGruz 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; 2;12(1):133. PMID: 31906588. Bibliographic review. IF: 4.546. No. of citations: 13
12. Sanchez-Rodriguez E, Lima-Cabello E, Biel-Glesson S, Fernandez-Navarro JR, Calleja MA, Roca M, Espejo-Calvo JA, Gil-Extremera B, Soria-Florido M, de la Torre R, Fito M, Covas MI, Alche JD, Martinez de Victoria E, Gil A, Mesa MD. Effects of Virgin Olive Oils Differing in Their Bioactive Compound Contents on Metabolic Syndrome and Endothelial Functional Risk Biomarkers in Healthy Adults: A Randomized Double-Blind Controlled Trial. *Nutrients*. 2018; 16;10(5):626. PMID: 29772657. Original work. IF: 4.546. No. of citations: 23
13. Martín-Álvarez E, Diaz-Castro J, Peña-Caballero M, Serrano-López L, Moreno-Fernández J, Sánchez-Martínez B, Martín-Peregrina F, Alonso-Moya M, Maldonado-Lozano J, Hurtado-Suazo JA, Ochoa JJ. Oropharyngeal colostrum positively modulates the inflammatory response in preterm neonates. *Nutrients*. 2020; 5;12(2):413. PMID: 32033312. Original work. IF: 4.546. No. of citations: 2
14. Cadenas-Sanchez C, Ruiz JR, Labayen I, Huybrechts I, Manios Y, González-Gross M, Breidenassel C, Kafatos A, De Henauw S, Vanhelst J, Widhalm K, Molnar D, Bueno G, Censi L, Plada M, Sjöström M, Moreno LA, Castillo MJ, Ortega FB. Prevalence of Metabolically Healthy but Overweight/Obese Phenotype and Its Association With Sedentary Time, Physical Activity, and Fitness. *J Adolesc Health*. 2017;61(1):107-114. PMID: 28363717. Original work. IF: 4.098. No. of citations: 27.
15. Garcia-Rodriguez CE, Olza J, Mesa MD, Aguilera CM, Miles EA, Noakes PS, Vlachava M, Kremmyda LS, Diaper ND, Godfrey KM, Calder PC, Gil A. Fatty acid status and antioxidant defense system in mothers and their newborns after salmon intake during late pregnancy. *Nutrition*. 2017; 33:157-162. PMID: 27497519. Original work. IF: 3.734. No. of citations: 5
16. Rodriguez-Ayllon M, Cadenas-Sanchez C, Esteban-Cornejo I, Migueles JH, Mora-Gonzalez J, Henriksson P, Martín-Matillas M, Mena-Molina A, Molina-García P, Estévez-López F, Enriquez GM, Perales JC, Ruiz JR, Catena A, Ortega FB. Physical fitness and psychological health in overweight/obese children: A cross-sectional study from the ActiveBrains project. *J Sci Med Sport*. 2018; 21(2):179-184. Original work. IF: 3.623. No. of citations: 29
17. Maldonado-Lobón JA, Blanco-Rojo R, Maldonado J, Ali MA, Almazán MV, Suanes-Cabello A, Callejón E, Jaldo R, Benavides MR, Negrillo AM, Sañudo A, Rodríguez C, Bañuelos O, Fonollá J, Olivares M; PROBI-COLIC group. Efficacy of Bifidobacterium breve CECT7263 for infantile colic treatment: an open-label, parallel, randomised, controlled trial. *Benef Microbes*. 2021; 24;12(1):55-67. PMID: 33350361. doi: 10.3920/BM2020.0105. Original work. IF: 3.370. No. of citations: 0
18. Gomez-Bruton A, Arenaza L, Medrano M, Mora-Gonzalez J, Cadenas-Sanchez C, Migueles JH, Muñoz-Hernández V, Merchan-Ramirez E, Martinez-Avila WD, Maldonado J, Osés M, Tobalina I, Gracia-Marco L, Vicente-Rodriguez G, Ortega FB, Labayen I. Associations of dietary energy density with body composition and cardiometabolic risk in children with overweight and obesity: role of energy density calculations, under-reporting energy intake and physical activity. *Br J Nutr*. 2019; 121(9):1057-1068. PMID: 30724143. Original work. IF: 3.334. No. of citations: 3

RICORS Code RD21/0012/0008

INTERNATIONAL AND NATIONAL RESEARCH PROJECTS

(Funded in the last five years)

- ID: PI 18/01334. IP: María Dolores Mesa García. "Epidemiological study of the microbiota of critically ill children and its relationship with the development of complications and biomarkers of inflammation". Funding Agency: FIS-Ministry of Science, Innovation and Universities, Institute of Health Carlos III. European Union, European Regional Development Fund (FEDER). 117,370 € 01/01/2019-01/12/2021.
- ID: PI19/01548. IP: Rocio Pozuelo. "Idiopathic tiptoe gait and telerehabilitation". Funding Agency: FIS-Ministry of Science, Innovation and Universities, Institute of Health Carlos III. 01/01/2019-01/12/2021.
- ID: 613010-EPP-1-2019-1-SI-SPO-SCP. IP-UGR: Francisco B. Ortega. "FitBack Project - Program SPO - Sport. The European Network for the Support of Development of Systems for Monitoring Physical Fitness of Children and Adolescents". Funding Agency: Erasmus+: Sport, Youth and EU. 41,652.00 €. 01/01/2020-31/12/2022.
- ID: PI PI20/01278. IP: Ana Rivas y Margarita Aguilera. "Influence of endocrine disrupters chemicals on gut microbiote: a missed link in childhood obesity (endomicromics)". Funding Agency: FIS-Ministry of Science, Innovation and Universities, Institute of Health Carlos III. European Union, European Regional Development Fund (FEDER). 01/01/2020-01/12/2023.
- ID: PI13/01925. IP: Angeles Ruiz Extremera. Estudio de seguimiento de la transmisión vertical (TV) de los virus de la hepatitis C (VHC) y de la hepatitis B (VHB): análisis de factores implicados". Funding Agency: FIS-Ministry of Science, Innovation and Universities, Institute of Health Carlos III. 107,690 €. 01/01/2014-31/12/2017.
- ID: grant agreement No 667224. IP: Professor Axel Franz (University of Tübingen). "Effect of Allopurinol in addition to hypothermia for hypoxic-ischemic Brain Injury on Neurocognitive Outcome (ALBINO-project)". Funding Agency: European Union Horizon 2020 framework program. Global budget: 6 307 599,50 €. 01/01/2016-30/06/2021
- ID: SE-210221640. IP-UGR: Francisco B. Ortega. "Comorbid Conditions of Attention deficit / hyperactivity disorder [CoCA]". Funding Agency: European Commission. H2020. 105,000 €. 01/03/2016-28/02/2021.
- ID: PI13/01393. IP: Jonatan Ruiz Ruiz. "Activating Brown Adipose Tissue through Exercise. Effects of an exercise program on brown adipose tissue activity and quantity in overweight and obese young adults: a randomized controlled study". Funding Agency: FIS-Ministry of Science, Innovation and Universities, Institute of Health Carlos III. Carlos III. 178,000 €. 01/01/2014-31/12/2017.
- ID: RTI2018-095284-J-I00. IP: Irene Esteban Cornejo. "Active Gains in Brain using Exercise during Aging- AGUEDA project". Funding Agency: Ministry of Economy, Industry and Competitiveness. 211,750 €. 15/11/2019-14/11/2022.
- ID: EQC2018-004417-P. IP: Jonatan Ruiz Ruiz. "Advanced equipment for the analysis and monitoring of biological parameters related to exercise and health." Funding Agency: Grants for infrastructure and scientific and technical equipment of the State R&D Plan. 2018, Ministry of Science, Innovation and Universities. 106,499 €. 01/01/2018-31/12/2020
- ID: DEP2017-91544-EXP. IP: Francisco B. Ortega. "Explora Project - Mechanisms explaining the effects of exercise on the brain". Funding Agency: Ministry of Economy and Competitiveness. 48,400 €. 01/11/2018-31/12/2020.
- ID: DEP2016-75598-R. IP: Palma Chillón Garzón. "Proyecto PACO: Retrospective analysis of school mobility in Spain and implementation of interventions to promote active mobility in young

people.” Funding Agency: Ministry of Economy, Industry and Competitiveness. 84,700 €. 30/12/2016-29/12/2020

- ID: DEP2016-79512-R. IP: Francisco B. Ortega y Jonatan Ruiz Ruiz. “Exercise in the prevention and treatment of obesity and insulin resistance: smart analytics-smart interventions. SmarterMove Project”. Funding Agency: Ministry of Economy, Industry and Competitiveness. 121,000 €. 31/12/2016-30/12/2020.
- ID: DEP2013-47540. IP: Francisco B. Ortega. “Physical activity and cognitive function in children: ActiveBrains”. Funding Agency: Ministry of Economy, Industry and Competitiveness. 142,000 €. 01/01/2014-30/11/2016.
- * ID: CDTI, nº expte: IDI-20190985. IP: AMC INNOVA. “Research and development of new food products for the elaboration of a healthy basket for infant feeding (MEDKIDS)”. Funding Agency: Center for the Development of Industrial Technology, Ministry of Science and Innovation. 287.749,00 €. 01/01/2019-31/12/2023.

RICORS Code RD21/0012/0008

PATENTS

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

Drinkable dairy product stable at room temperature used as nutritional supplement for women during pre-conception, pregnancy and lactation comprises dairy base of milk and water stabilized with calcium scavengers and polyols

Patent Number(s): EP3771342-A1; WO2021018878-A1

Inventors: Lara Villoslada F, Malo Poyatos J A, Gonzalez Rodriguez S, Ochoa Herrera J, Kajarabille Garcia N, Peña Caballero M, Hurtado Suazo J A, Pena Quintana L, Rodriguez-Santana Y

Patent assignee code(s) and name(s): LACTALIS PULEVA SL (LACT-Non-standard).

Derwent Primary Accession Number: 2021-12913M

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.