

SCIENTIFIC AND TECHNOLOGICAL PROFILE OF THE GROUP

		RICORS Code RD21/0012/0003
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:	Elisa Llurba	
Applicant Institution:	Fundación Sant Joan de Déu	
Working Institution:	Hospital Sant Joan de Déu, Barcelona	
PI Work Institution:	María Dolores Gómez Roig	

Participants

Researcher	Family Name (s)	First Name (s)	Work Institution	Position
1	Perez Cruz	Miriam	HSJD	Contracted
2	Illa Armengol	Miriam	HSJD	Contracted
3	Sabria Bach	Joan	HSJD	Contracted
4	Mazarico Gallego	Eduarne	HSJD	Contracted
5	Díaz Gomez	Sonia	ASSIR (ICS)	Statutory staff
6	Ferrero Martinez	Silvia	HSJD	Contracted
7	Pascal Capdevila	Rosalía	HSJD	Contracted
8	Ferrer Aguilar	Patricia	HSJD	Contracted

PUBLICATIONS

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

1.- Arenillas-Alcón S; Costa-Faidella J; Ribas-Prats T; Gómez-Roig MD; Escera C. Neural encoding of voice pitch and formant structure at birth as revealed by frequency-following responses. Scientific reports. 11 - 1, pp. 6660 - 6660. 23/03/2021. ISSN 2045-2322 DOI: 10.1038/s41598-021-85799-x PMID: 33758251

2.- Almeida-Toledano L; Andreu-Fernández V; Aras-López R; García-Algar Ó; Martínez L; Gómez-Roig MD. Epigallocatechin Gallate Ameliorates the Effects of Prenatal Alcohol Exposure in a Fetal Alcohol Spectrum Disorder-Like Mouse Model. International journal of molecular sciences. 22 - 2, 13/01/2021. ISSN 1661-6596 DOI: 10.3390/ijms22020715 PMID: 33450816

3.- Meler E; Mazarico-Gallego E; Eixarch E; Gonzalez A; Peguero A; Martinez J; Boada D; Vellvé K; Gómez-Roig MD; Gratacós E; Figueras-Retuerta F. A 10-year experience of protocol-based management of fetal growth restriction: perinatal outcomes in late pregnancy cases diagnosed after 32 weeks. Ultrasound in obstetrics & gynecology. 57 - 1, pp. 62 - 69. 01/01/2021. ISSN 0960-7692 DOI: 10.1002/uog.23537 PMID: 33159370

4.- Torres Toda M; Miri M; Alonso L; Gómez-Roig MD; Foraster M; Dadvand P. Exposure to greenspace and birth weight in a middle-income country. Environmental research. 189, pp. 109866 - 109866. 01/10/2020. ISSN 0013-9351 DOI: 10.1016/j.envres.2020.109866 PMID: 32768705

5.- 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 MD; 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. 12 - 1, (Suiza): Multidisciplinary Digital Publishing Institute (MDPI), 02/01/2020. ISSN 2072-6643 DOI: 10.3390/nu12010133 PMID: 31906588

6.- Sebastiani G; Andreu-Fernández V; Herranz Barbero A; Aldecoa-Bilbao V; Miracle X; Meler Barrabes E; Balada Ibañez A; Astals-Vizcaino M; Ferrero-Martínez S; Gómez-Roig MD; García-Algar O. Eating Disorders During Gestation: Implications for Mother's Health, Fetal Outcomes, and Epigenetic Changes. Frontiers in pediatrics. 8, pp. 587 - 587. 01/01/2020. ISSN 2296-2360 DOI: 10.3389/fped.2020.00587 PMID: 33042925

7.- Mazarico-Gallego E; Llurba E; Cabero L; Sanchez O; Valls-Lafon A; Martín-Ancel A; Cardenas D; Gómez-Roig MD. Associations between neural injury markers of intrauterine growth-restricted infants and neurodevelopment at 2 years of age. Journal of maternal-fetal & neonatal medicine. 32 - 19, pp. 3197 - 3203. 01/10/2019. ISSN 1476-7058 DOI: 10.1080/14767058.2018.1460347 PMID: 29606022

- 8.- Ribas-Prats T; Almeida-Toledano L; Costa-Faidella J; Plana M; Corral MJ; Gómez-Roig MD; Escera C. The frequency-following response (FFR) to speech stimuli: A normative dataset in healthy newborns. *Hearing research*. 371, pp. 28 - 39. (Holanda): Elsevier BV, 01/01/2019. ISSN 0378-5955 DOI: 10.1016/j.heares.2018.11.001 PMID: 30448690
- 9.- Miranda J; Simões RV; Paules C; Cañueto D; Pardo-Cea MA; García-Martín ML; Crovetto F; Fuertes-Martin R; Domenech M; Gómez-Roig MD; Eixarch E; Estruch R; Hansson SR; Amigó N; Cañellas N; Crispi F; Gratacós E. Metabolic profiling and targeted lipidomics reveals a disturbed lipid profile in mothers and fetuses with intrauterine growth restriction. *SCIENTIFIC REPORTS*. 8 - 1, pp. 13614 - 13614, 11/09/2018. ISSN 2045-2322 DOI: 10.1038/s41598-018-31832-5 PMID: 30206284
- 10.- Sebastiani G; Borrás-Novell C; Casanova MA; Pascual Tutusaus M; Ferrero Martínez S; Gómez-Roig MD; García-Algar O. The Effects of Alcohol and Drugs of Abuse on Maternal Nutritional Profile during Pregnancy. *Nutrients*. 10 - 8, 02/08/2018. DOI: 10.3390/nu10081008 PMID: 30072661
- 11.- Sabra S; Malmqvist E; Almeida-Toledano L; Gratacós E; Gómez-Roig MD. Differential correlations between maternal hair levels of tobacco and alcohol with fetal growth restriction clinical subtypes. *Alcohol*. 70, pp. 43 - 49. 01/08/2018. ISSN 0741-8329 DOI: 10.1016/j.alcohol.2018.01.001 PMID: 29778069
- 12.- Gómez-Roig MD; Marchei E; Sabra S; Busardò FP; Mastrobattista L; Pichini S; Gratacós E. Maternal hair testing to disclose self-misreporting in drinking and smoking behavior during pregnancy. *Alcohol*. 67, pp. 1 - 6. 01/03/2018. ISSN 0741-8329 DOI: 10.1016/j.alcohol.2017.08.010 PMID: 2928982
- 13.- Pérez-Cruz M; Crispi F; Fernández-Pérez MT; Parra-Hernandez JA; Valls-Lafon A; Gómez-Roig MD; Gratacós E. Cord Blood Biomarkers of Cardiac Dysfunction and Damage in Term Growth-Restricted Fetuses Classified by Severity Criteria. *Fetal diagnosis and therapy*. 44 - 4, pp. 271 - 276. 30/11/2017. ISSN 1015-3837 DOI: 10.1159/000484315 PMID: 29190628
- 14.- Sabra S; Malmqvist E; Saborit A; Gratacós E; Gómez-Roig MD. Heavy metals exposure levels and their correlation with different clinical forms of fetal growth restriction. *PLoS One*. 12 - 10, 06/10/2017. ISSN 1932-6203 DOI: 10.1371/journal.pone.0185645 PMID: 28985223 WOS: 000412493000007
- 15.- Mazarico-Gallego E; Llurba E; Cumplido R; Valls-Lafon A; Melchor JC; Iglesias M; Cabero L; Gratacós E; Gómez-Roig MD. Neural injury markers in intrauterine growth restriction and their relation to perinatal outcomes. *Pediatric research*. 82 - 3, pp. 452 - 457. 01/09/2017. ISSN 0031-3998 DOI: 10.1038/pr.2017.108 PMID: 28426650
- 16.- Sabra S; Gratacós E; Gómez-Roig MD. Smoking-Induced Changes in the Maternal Immune, Endocrine, and Metabolic Pathways and Their Impact on Fetal Growth: A Topical Review. *Fetal diagnosis and therapy*. 41 - 4, pp. 241 - 250. 01/01/2017. ISSN 1015-3837 DOI: 10.1159/000457123 PMID: 28249267

17.- Fernández-Blanco L; Peguero A; Eixarch E; Oltra M; Mazarico-Gallego E; Gómez-Roig MD; Gratacós E; Figueras-Retuerta F. EP13.01: Pregnancy and perinatal outcomes in a cohort of second trimester intrauterine growth restricted (IUGR) fetuses. *Ultrasound in obstetrics & gynecology*. 48 Suppl 1, pp. 320 - 320. 01/09/2016. ISSN 0960-7692 DOI: 10.1002/uog.16965 PMID: 27645316

18.- Mazarico-Gallego E; Martinez-Cumplido R; Díaz-Silva M; Sebastiani G; Ibañez-Toda L; Gómez-Roig MD. Postnatal Anthropometric and Body Composition Profiles in Infants with Intrauterine Growth Restriction Identified by Prenatal Doppler (vol 11, e0150152, 2016). *PLoS One*. 11 - 6, 03/06/2016. DOI: 10.1371/journal.pone.0157194 PMID: 27258039

19.- Mazarico-Gallego E; Martinez-Cumplido R; Díaz-Silva M; Sebastiani G; Ibañez-Toda L; Gómez-Roig MD. Postnatal Anthropometric and Body Composition Profiles in Infants with Intrauterine Growth Restriction Identified by Prenatal Doppler. *PLoS One*. 11 - 3, pp. 150152 - 150152. 03/03/2016. ISSN 1932-6203 DOI: 10.1371/journal.pone.0150152 PMID: 26938993

20.- Pichini S; Cortes L; Marchei E; Solimini R; Pacifici R; Gómez-Roig MD; García-Algar O. Ultra-high-pressure liquid chromatography tandem mass spectrometry determination of antidepressant and anxiolytic drugs in neonatal meconium and maternal hair. *Journal of pharmaceutical and biomedical analysis*. 118, pp. 9 - 16. 25/01/2016. ISSN 0731-7085 DOI: 10.1016/j.jpba.2015.10.016 PMID: 26512994

RICORS Code RD21/0012/0003

INTERNATIONAL AND NATIONAL RESEARCH PROJECTS

(Funded in the last five years)

1.-

Project ID: H2020 - 874583

Name of PI: Maria Dolores Gómez Roig

Funding Agency: European Commission

Title: **ATHLETE_Advancing Tools for Human Early Lifecourse Exposome research and Translation**

Dates: 01/01/2020 - 31/12/2024 Duration: 5 years

Amount: 38.375 €

2.-

Project ID: PI20/00490

Name of PI: Maria Dolores Gómez Roig

Funding Agency: Instituto de Salud Carlos III (ISCIII)

Title: **Impact of a structured prenatal intervention program to decrease alcohol intake, on perinatal and neurodevelopmental outcomes.**

Dates: 01/01/2021 - 31/12/2023 Duration: 3 years

Amount: 99.220 €

3.-

Project ID: CR-83590201

Name of PI: Maria Dolores Gómez Roig

Funding Agency: Health Effects Institute (HEI)

Title: **Traffic-related air pollution and birth weight: the roles of noise, placental function, green space, diet, physical activity, and socioeconomic status (FRONTIER)**

Dates: 01/06/2018 - 30/11/2022 Duration: 4 years and 6 months

Amount: 202.674,99 €

4.-

Project ID: PI17/00105

Name of PI: Maria Dolores Gómez Roig

Funding Agency: Instituto de Salud Carlos III (ISCIII)

Title: **Efectividad de la entrevista motivacional repetida durante el embarazo en el abandono del consumo de alcohol**

Dates: 01/01/2018 - 30/06/2022 Duration: 4 years and 6 months

Amount: 81.070 €

5.-

Project ID: RD16/0022/0014

Name of PI: Maria Dolores Gómez Roig

Funding Agency: Instituto de Salud Carlos III (ISCIII)

Title: **RED SAMID_ Salud materno-infantil y del desarrollo**

Dates: 01/01/2017- 31/12/2021 Duration: 5 years

Amount: 153.005 €

6.-

Project ID: PI16/00151

Name of PI: Edurne Mazarico

Funding Agency: Instituto de Salud Carlos III (ISCIII)

Title: TRATAMIENTO DEL CIR PRECOZ CON HEPARINA DE BAJO PESO MOLECULAR (TRACIP): ENSAYO CLÍNICO RANDOMIZADO

Dates: 01/01/2017 - 30/06/2021 Duration: 4 years and 6 months

Amount: 42.000€

7.-

Project ID: DTS20/00130

Name of PI: Miriam Illa

Funding Agency: Instituto de Salud Carlos III (ISCIII) - DTS

Title: FET-SEAL: Sistema integrado de sellado de membranas fetales para cirugía fetal fetoscópica

Dates: 01/01/2021 - 31/12/2022 Duration: 2 years

Amount: 105.000 €

8.-

Project ID: PI18/01763

Name of PI: Miriam Illa

Funding Agency: Instituto de Salud Carlos III (ISCIII)

Title: Evaluación in vitro e in vivo de terapias neuroprotectoras en un modelo animal de restricción de crecimiento intraútero

Dates: 01/01/2019 - 31/12/2021 Duration: 3 years

Amount: 75.000 €

9.-

Name of PI: Jordi Sunyer - ISGLOBAL (IP HSJD Maria Dolores Gomez Roig)

Funding Agency: ERC Advanced Grant

Title: Pre-natal exposure to urban AIR pollution and pre- and post-Natal Brain development

Dates: 01/01/2018-31/12/2022.

Duration: 5 years

Amount: 2.500.000 €

RICORS Code RD21/0012/0003

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.