

SCIENTIFIC AND TECHNOLOGICAL PROFILE OF THE GROUP

Thematic area: PRIMARY CARE, CHRONICITY AND HEALTH PROMOTION		RICORS Code RD21/0012/0014
Programme name:	PRIMARY CARE PROMOTION OF MATERNAL, CHILD AND WOMEN'S HEALTH FOR PREVENTION OF ADULT CHRONIC DISEASES	
Group leader:	FERNANDO CABAÑAS GONZALEZ	
Applicant Institution:	FUNDACION DE INVESTIGACION BIOMEDICA HOSPITAL UNIVERSITARIO LA PAZ	
Working Institution:	FUNDACION DE INVESTIGACION BIOMEDICA HOSPITAL UNIVERSITARIO LA PAZ	
PI Work Institution:	FUNDACION DE INVESTIGACION BIOMEDICA HOSPITAL UNIVERSITARIO LA PAZ	

Participants

Researcher	Family Name (s)	First Name (s)	Work Institution	Position
1	CABAÑAS GONZALEZ	FERNANDO	Fundación de Investigación Biomedica Hospital Universitario La Paz	Contracted
2	PELLICER MARTINEZ	ADELINA	Hospital Universitario La Paz	Statutory staff
3	BARTHA RASERO	JOSE LUIS	Hospital Universitario La Paz	Statutory staff
4	ELORZA FERNANDEZ	MARIA DOLORES	Hospital Universitario La Paz	Statutory staff
5	SANCHEZ GARCIA	LAURA	Hospital Universitario La Paz	Statutory staff
6	CABRERA LAFUENTE	MARTA	Hospital Universitario La Paz	Statutory staff
7	BRAVO LAGUNA	MARIA DEL CARMEN	Hospital Universitario La Paz	Statutory staff
8	ANTOLIN ALVARADO	EUGENIA	Hospital Universitario La Paz	Statutory staff
9	SAENZ DE PIPAON	MIGUEL	Hospital Universitario La Paz	Statutory staff
10	VALVERDE NUÑEZ	EVA	Hospital Universitario La Paz	Statutory staff
11	YBARRA ZABALA	MARTA MENCIA	Hospital Universitario La Paz	Statutory staff
12	LOPEZ ORTEGO	PALOMA	Hospital Universitario La Paz	Statutory staff
13	CABALLERO MARTIN	MARIA ANGELES	Hospital Universitario Quironsalud Madrid- Fundacion Quironsalud	Contracted
14	DORRONSORO MARTIN	IZASKUN	Hospital Universitario Quironsalud Madrid- Fundacion Quironsalud	Contracted
15	LOPEZ AZORIN	MANUELA	Hospital Universitario Quironsalud Madrid- Fundacion Quironsalud	Contracted

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PUBLICATIONS

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

1. Gómez-Roig MD, Pascal R, Cahuana MJ, García-Algar O, Sebastiani G, Andreu-Fernández 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;48(4):245-257. doi: 10.1159/000514884. Epub 2021 Mar 18. PMID: 33735860.
2. Bravo MC, López-Ortego P, Sánchez L, Díez J, Cabañas F, Pellicer A. Randomised trial of dobutamine versus placebo for low superior vena cava flow in preterm infants: Long-term neurodevelopmental outcome. *J Paediatr Child Health.* 2021 Jan 19. doi: 10.1111/jpc.15344. Epub ahead of print. PMID: 33464688
3. Méndez-Echevarría A, Pérez-Martínez A, Gonzalez Del Valle L, Ara MF, Melendo S, Ruiz de Valbuena M, Vazquez-Martinez JL, Morales-Martínez A, Remesal A, Sándor-Bajusz KA, Cabañas F, Calvo C. Compassionate use of remdesivir in children with COVID-19. *Eur J Pediatr.* 2021 Apr;180(4):1317-1322. doi:10.1007/s00431-020-03876-1. Epub 2020 Nov 16. PMID: 33200304; PMCID: PMC7668659.
4. Pellicer A, Fernández R, Jullien V, Gleeson C, Bravo MC, Ortego PL, Sánchez L, Ybarra M, Rojas-Anaya H, Cabañas F, Koch A, Smith A, Rabe H; Neocirculation Consortium. Pharmacokinetic study (phase I-II) of a new dobutamine formulation in preterm infants immediately after birth. *Pediatr Res.* 2021 Mar;89(4):981-986. doi: 10.1038/s41390-020-1009-0. Epub 2020 Jul 1. PMID: 32610341.
5. Blasco Santana L, Miraval Wong E, Álvarez-Troncoso J, Sánchez García L, Bartha JL, Regajo-Zapata RM. Maternal and perinatal outcomes and placental pathologic examination of 29 SARS-CoV-2 infected patients in the third trimester of gestation. *J Obstet Gynaecol Res.* 2021 Apr 5. doi: 10.1111/jog.14784. Epub ahead of print. PMID: 33821521.
6. Martínez-Sánchez N, De la Calle Fernández-Miranda M, Bartha JL. SAFETY PROFILE OF TREATMENTS ADMINISTERED IN COVID 19 INFECTION IN PREGNANT WOMEN. *Clin Invest Ginecol Obstet.* 2021 Feb 25. doi: 10.1016/j.gine.2021.01.004. Epub ahead of print. PMID: 33654337; PMCID: PMC7906532.
7. Sánchez García L, Pellicer A, López-Martínez C, García-García ML, Casas I, Pozo F, Calvo C. Respiratory morbidity associated with viral respiratory infections during neonatal stage in premature infants. *Pediatr Pulmonology.* 2021;56(5): 967-873.
8. Pellicer A, Fernández R, Jullien V, Gleeson CI, Bravo MC, López P, Sánchez L, Ybarra M, Rojas-Anaya H, Cabañas F, Koch A, Smith A, Rabe H and behalf of Neocirculation Consortium. Pharmacokinetic study (phase I-II) of a new dobutamine formulation in preterm infants immediately after birth. *Pediatr Res.* 2021 Mar;89(4):981-986. doi: 10.1038/s41390-020-1009-0. Epub 2020 Jul 1. PMID: 32610341.
9. Dudink J, Jeanne Steggerda S, Horsch S; eurUS.brain group: Cabañas F, Pellicer A, Bravo MC, Valverde E. State-of-the-art neonatal cerebral ultrasound: technique and reporting. *Pediatr Res.* 2020 Mar;87(Suppl 1):3-12. doi: 10.1038/s41390-020-0776-y. PMID: 32218539; PMCID: PMC709888
10. Fumagalli M, Parodi A, Ramenghi L, Limperopoulos C, Steggerda S; eurUS.brain Group: Cabañas F, Pellicer A, Bravo MC, Valverde. Ultrasound of acquired posterior fossa abnormalities in the newborn. *Pediatr Res.* 2020 Mar;87(Suppl 1):25-36. doi: 10.1038/s41390-020-0778-9. PMID: 32218537; PMCID: PMC7098891.
11. Camfferman FA, de Goederen R, Govaert P, Dudink J, van Bel F, Pellicer A, Cools F; eurUS.brain group: Cabañas F, Pellicer A, Bravo MC, Valverde. Diagnostic and predictive value of Doppler ultrasound for evaluation of the brain circulation in preterm infants: a systematic review. *Pediatr Res.* 2020 Mar;87(Suppl 1):50-58. doi: 10.1038/

s41390-020-0777-x. PMID: 32218536; PMCID: PMC7098887.

12. Parodi A, Govaert P, Horsch S, Bravo MC, Ramenghi LA; eurUS.brain group: : Cabañas F, Pellicer A, Bravo MC, Valverde. Cranial ultrasound findings in preterm germinal matrix haemorrhage, sequelae and outcome. *Pediatr Res.* 2020 Mar;87(Suppl 1):13-24. doi:10.1038/s41390-020-0780-2. PMID: 32218535; PMCID: PMC7098890.

13. Agut T, Alarcon A, Cabañas F, Bartocci M, Martinez-Biarge M, Horsch S; eurUS.brain group: Cabañas F, Pellicer A, Bravo MC, Valverde. Preterm white matter injury: ultrasound diagnosis and classification. *Pediatr Res.* 2020 Mar;87(Suppl 1):37-49. doi:10.1038/s41390-020-0781-1. PMID: 32218534; PMCID: PMC7098888.

14. Bravo MC, López-Ortego P, Sánchez L, Madero R, Cabañas F, Koch A, Rojas- Anaya H, Rabe H, Pellicer A. Validity of Biomarkers of Early Circulatory Impairment to Predict Outcome: A Retrospective Analysis. *Front Pediatr.* 2019 May 29;7:212. doi: 10.3389/fped.2019.00212. PMID: 31192178; PMCID: PMC6548875.

15. Mathias Lühr Hansen; Adelina Pellicer; Christian Gluud; Eugene Dempsey; Jonathan Mintzer; Simon Hyttel-Sorensen; Cornelia Hagmann; Ebru Ergenekon; Gabriel Dimitriou; G Cheng; Hersilia Guimaraes; Jack Tkaczyk; KB Kreutzer; Monica Fumagalli; Olivier Claris; Petra Lemmer; S Fredly; Thomas Szczapa; Janus C Jakobsen; Gorm Greisen. Cerebral near-infrared spectroscopy monitoring versus treatment as usual for extremely preterm infants: a protocol for the SafeBoosC randomised clinical phase III trial. *Trials* 2019 20-1 2019, PP 811 30/12/2019. doi: 10.1186/s13063-019-3955-6

16. Nuñez-Ramiro A, Benavente-Fernández I, Valverde E, Cordeiro M, Blanco D, Boix H, Cabañas F, Chaffanel M, Fernández-Colomer B, Fernández-Lorenzo JR, Kuligowski J, Loureiro B, Moral-Pumarega MT, Pavón A, Sánchez-Illana A, Tofé I, Hervás D, García-Robles A, Parra-Llorca A, Cernada M, Martínez-Rodilla J, Lorente-Pozo S, Llorens R, Marqués R, Vento M; on behalf of the Hypotop Study Group. Topiramate plus Cooling for Hypoxic-Ischemic Encephalopathy: A Randomized, Controlled, Multicenter, Double-Blinded Trial. *Neonatology.* 2019;116(1):76-84. doi: 10.1159/000499084. Epub 2019 May 15. PMID: 31091527.

17. Rodríguez López J, García Lara NR, López Maestro M, De la Cruz Bértolo J, Martínez Ávila JC, Vento M, Parra Llorca A, Izquierdo Macián I, Pellicer A, Marín Huarte N, Asla Elorriaga I, Román Echevarría L, Copons Fernández C, Martín Ancel A, Cabañas F, García Algar Ó, Pallás Alonso CR. What is the impact of mother's bed incline on episodes of decreased oxygen saturation in healthy newborns in skin-to-skin contact after delivery: Study protocol for a randomized controlled trial. *Trials.* 2019 Mar 20;20(1):179. doi: 10.1186/s13063-019-3256-0.

18. Alarcon A, Martinez-Biarge M, Cabañas F, Quero J, García-Alix A. A Prognostic Neonatal Neuroimaging Scale for Symptomatic Congenital Cytomegalovirus Infection. *Neonatology.* 2016;110(4):277-285. doi:10.1159/000446690. Epub 2016 Jun 24. PMID: 27344149.

19. Riera J, Hyttel-Sorensen S, Bravo MC, Cabañas F, López-Ortego P, Sanchez L, Ybarra M, Dempsey E, Greisen G, Austin T, Claris O, Fumagalli M, Gluud C, Lemmers P, Pichler G, Plomgaard AM, van Bel F, Wolf M, Pellicer A. The SafeBoosC phase II clinical trial: an analysis of the interventions related with the oximeter readings. *Arch Dis Child Fetal Neonatal Ed.* 2016 Jul;101(4):F333-8. doi: 10.1136/archdischild-2015-308829. Epub 2015 Dec 8. PMID: 26645538; PMCID: PMC4941140.

20. Riera J, Cabañas F, Serrano JJ, Madero R, Pellicer A. New developments in cerebral blood flow autoregulation analysis in preterm infants: a mechanistic approach. *Pediatr Res.* 2016 Mar;79(3):460-5. doi: 10.1038/pr.2015.231. Epub 2015 Nov 5. PMID: 26539666.

RICORS Code RD21/0012/0014

INTERNATIONAL AND NATIONAL RESEARCH PROJECTS

(Funded in the last five years)

SELECTED INTERNATIONAL AND NATIONAL RESEARCH PROJECTS

Number 282533: FP7. Dobutamine for NEOnatal CIRCUlatory failure defined by novel biomarkers. F Cabañas: PI of Biomedical Research Foundation La Paz University Hospital-IDIPAZ and Board member of NeoCirculation Clinical Trials, 7th Framework program [Grant Agreement Number 282533: FP7; HEALTH-2011.4.2-1 Duration: 01/01/2012 - 31/12/2018. Amount of Funding: 681948,80 €

PI17/00565. Evaluación de una intervención basada en la evidencia para reducir la bacteriemia asociada a catéter vascular central en recién nacidos de muy bajo peso. Investigador Colaborador. Instituto de salud Carlos III. Proyectos FIS. IPI Investigadores colaboradores: F cabañas, Izaskun Dorrorsoro. Duration: 01/01/2018 - 31/12/2020

Call Identifier H2020-MSCA-RISE-2020 (Marie Skłodowska-Curie Research and Innovation Staff Exchange). Type of action: MSCA-RISE. Alliance for Family Integrated Care (FICare) Implementation in Neonatal Intensive Care Units. (RISEinFAMILY). Adelina Pellicer, Investigadora Principal y Coordinadora Europeo. Duration 01/09/2021 - 30/09/2025 Amount of Funding: 446,200 €

FIS Carlos III:COV20/010. Seguridad de la lactancia materna en la infección confirmada por SARS-CoV-2 IP: Adelina Pellicer. Duration: Abril 2020- Marzo 2021. IP. ISCIII: Fondo COVID-19 de proyectos de investigación sobre SARS-CoV-2 .Amount of Funding: 63600 €

PI19/00915

Biología de sistemas en la búsqueda de biomarcadores precoces para placentación deficiente.

IP : J L Bartha: IP.

Instituto de Salud Carlos III. Fondo Investigación en Salud (FIS). Duration: Enero 2020- Diciembre 2022)

PI18/01551 Ensayo clínico internacional controlado con placebo, doble ciego, con tres brazos terapéuticos para investigar la eficacia de la dobutamina, con dos dosis de inicio distintas, en el tratamiento de la insuficiencia circulatoria postnatal precoz: Estudio NEOCIRC-003

IP: Adelina Pellicer Duration: Enero 2020- Diciembre 2022). Amount of Funding: 99200 €

Safeguarding the brain of our smallest children – an investigator-initiated, pragmatic, open label, multinational randomized phase III clinical trial evaluating treatment based on near-infrared spectroscopy monitoring versus treatment as usual in premature infants.

IP. Adelina Pellicer.

Fundación Mutua Madrileña. Duration 22/07/2019 - 30/06/2021. Amount of Funding: 85000€

Online cerebral pressure autoregulation continuous monitoring as a neurobiomarker to guide assessment and intervention to prevent or minimise brain injury in the high-risk preterm infant Chiesi Foundation Onlus

IP: Adelina Pellicer: 01/12/2017 - 31/12/2019

Amount of Funding: 90.000 €

PI16/00606.

Efecto de la suplementación precoz con Acido Docosahexanoico y Acido Araquidónico sobre la incidencia de displasia broncopulmonar en niños extremadamente prematuros: ensayo clínico.

D Elorza: Investigador Colaborador Dolores Elorza

Instituto de Salud Carlos III. Fondo Investigación en Salud (FIS). Duration: Enero 2017- Diciembre 2019

PI18/00167

Infecciones virales respiratorias en recién nacidos de muy bajo peso, respuesta inmunológica e implicaciones pronósticas.

Investigador Colaborador: Izaskun Dorrorsoro , Laura Sánchez García. IP: Cristina Calvo

Instituto de Salud Carlos III. Fondo Investigación en Salud (FIS). Duration: Enero 2019- Diciembre 2021

PI18/00834.

Impacto clínico y económico de la suplementación con leche donada pasteurizada por el método HTST vs método HOLDER en prematuros de muy bajo peso al nacer. Ensayo clínico randomizado.

Investigador Colaborador: Marta Cabrera

Instituto de Salud Carlos III. Fondo Investigación en Salud (FIS). Duration: Enero 2019- Diciembre 2021

PI16/00644

Ensayo clínico multicéntrico sobre el tratamiento del ductus arterioso persistente ecocardiográficamente guiado en el recién nacido prematuro con ibuprofeno en perfusión continua intravenosa frente a bolos intravenosos: impacto en el pronóstico intestinal.

Investigador: Marta Cabrera

Instituto de Salud Carlos III. Fondo Investigación en Salud (FIS). Duration: 2017-2019 (En prórroga). Amount of Funding: 33275 €

AP163272016

Multicenter randomized controlled trial on echocardiographically guided treatment of the ductus arteriosus in the preterm infant with continuous intravenous ibuprofen infusion vs intravenous bolus: impact on the bowel prognosis”

IP : M Carmen Bravo

Financial Support: Fundación Mutua Madrileña . Duration: 2017-20020. Amount of Funding: 128.721,30 €)

PI19/00904.

Predictive methods of neurological injury and cardiovascular risk based on clinical data, imaging techniques and biomarkers in monozygotic twins. System biology approach.

Investigador Principal: Eugenia Antolín

Instituto de Salud Carlos III. Fondo Investigación en Salud (FIS). Duration: 2020-2022

PI16/00606

Efecto de la suplementación precoz con Acido Docosahexanoico y Acido Araquidónico sobre la incidencia de displasia broncopulmonar en niños extremadamente prematuros: ensayo clínico

Investigador Miguel Saenz de Pipaon

Instituto de Salud Carlos III. Fondo Investigación en Salud (FIS). Duration: 2017-2019

EudraCT-No: 2016-000222-19. Sponsor-Code: H2020-PHC-18-2015-667224

Effect of Allopurinol in addition to hypothermia for hypoxic-ischemic Brain Injury on Neurocognitive Outcome (ALBINO). Investigador Colaborador. Union Europea

(H2020). Investigadores. Fernando Cabañas, Eva Valverde, M Angeles Caballero. Duration 2018-2021 (actualmente en prórroga)

PI18/01548

Perfil basal de micrnas en plasma en una población de recién nacidos muy prematuros y sus cambios en respuesta a la administración de células mesenquimales

Investigador Colaborador: P Lopez Ortego

Instituto de Salud Carlos III. Fondo Investigación en Salud (FIS). Duration: 2019-2021

EudraCT-No: 2016-000222-19. Sponsor-Code: H2020-PHC-18-2015-667224.

Effect of Allopurinol in addition to hypothermia for hypoxic-ischemic Brain Injury on Neurocognitive Outcome (ALBINO). Investigador Colaborador. F Cabañas, E Valverde. M Angeles Caballero. Union Europea (H2020).

Duration 2018-2021 (actualmente en prórroga)

PI13/00481:

Episodios de disminución de la saturación de oxígeno en recién nacidos en contacto piel con piel en relación con la posición materna tras el parto.

Investigador Colaborador. F Cabañas. Instituto de Salud Carlos III. Proyectos FIS. Duration: 01/01/2014-31/12/2016. Amount of Funding: 112530 €

PI18/ 00167.

Infecciones respiratorias virales en recién nacidos de muy bajo peso durante su estancia en UCIN: estudio inmunológico e implicaciones pronósticas.

Investigador Colaborador. Izaskun Dorronsoro y F Cabañas. Instituto de Salud Carlos III. Proyectos FIS. Duration:

01/01/2019-31/12/2021.

PI20/00295

Validación prospectiva mediante un estudio multicéntrico estatal (Red Samid) de modelos predictivos de mortalidad neonatal en prematuros

Investigador Colaborador. Investigador Colaborador: M Lopez Azporin Instituto de Salud Carlos III. Proyectos FIS.

Duration: 01/01/2021-31/12/2023.

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PATENTS

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

1 Joan Riera Banal; Adelina Pellicer Martinez; Fernando Cabañas Gonzalez. 828/2013. "Computer application for visualization, synchronization, registration and processing of biomedical signals from commercial medical devices: called "BIOACSYS". Spain 2013. FUNDACION PARA LA INVESTIGACION BIOMEDICA DEL HOSPITAL UNIV. LA PAZ.

2 Joan Riera Banal; Adelina Pellicer Martinez; Fernando Cabañas Gonzalez. 827/2013. "Computer application named. "Support for clinical diagnosis through cerebral oxygenation values ". Spain 2013. FUNDACION PARA LA INVESTIGACION BIOMEDICA DEL HOSPITAL UNIV. LA PAZ.

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.