

**PERSONAL INFORMATION** Fernando Cabanas**WORK EXPERIENCE**

August 2017–Present **Healthcare professionals representative in the Paediatric Committee (PDCO)**  
European Medicines Agency (EMA) (United Kingdom)

September 2011–Present **Professor in Paediatrics and Neonatology**  
Universidad Europea (European University) (Spain)

2013–Present **Director of Department of Paediatrics and Neonatology**  
Quironsalud Madrid University Hospital (Spain)

1987–2013 **Professor in Paediatrics**  
Universidad Autonoma de Madrid (Autonoma University of Madrid) (Spain)

2013–Present **Research of Biomedical Research Foundation**  
La Paz University Hospital (Spain)

2000–2013 **Member of Steering Committee. Department of Neonatology**  
La Paz University Hospital (Spain)

1985–2013 **Director of Neonatal Neuroimaging and Haemodynamics Unit.**  
Department of Neonatology, La Paz University Hospital (Spain)

1982–1984 **Consultant Neonatologist**  
Dept of Neonatology, La Paz University Hospital (Spain)

**EDUCATION AND TRAINING**

–2013 **MASTER in leadership and management in health research**  
(Spain)

–1987 **PhD: Pathogenic factors of the intraventricular haemorrhage in low birth weight**  
Universidad Autonoma (Spain)

–1981 **Specialist in Pediatrics**  
La Paz University Hospital (Spain)

1980–1982 **Resident and research fellow, Dept of Neonatology**  
La Paz Hospital (Spain)

1977–1981 **Resident of Pediatrics**  
La Paz Hospital (Spain)

1970–1976 **Medical Graduate**  
Universidad Autonoma (Spain)

## ADDITIONAL INFORMATION

### Expertise

Research profile and leadership experience

- Expert on neuroimaging and haemodynamics with extensive research experience. My field of research has been neonatal brain, neuroimaging, and circulation, near-infrared spectroscopy and functional echocardiography. I have investigated the effects of different interventions on cerebral and systemic haemodynamics.
- Research includes drug developments in the neonatal population.
- Leading investigator at Biomedical Research Foundation. La Paz University Hospital-IDIPAZ on the research network SAMID and RETICS. Scientific Director of study of systemic and brain hemodynamics and oxygenation by non-invasive technologies during the neonatal period
- International and national Research grants: 40 research projects supported by private or public institutions
- International collaborative studies: 5 European, multicentric studies
- PI in La Paz University Hospital and Board member of NeoCirculation Clinical Trials, supported by European Union 7FP. Dobutamine for NEONatal CIRCulatory failure defined by novel biomarkers (NEO-CIRC) financiado por el 7º Programa Marco de la Unión Europea. FP7- HEALTH-2011-single-stage. EudraCT NeoCirc001:2013-002845-12
- PI of Spanish Paediatric, Maternal and Neonatal Network (RED de Salud Materno Infantil - RETIC SAMID-) and member of Network Governing Council-NGC) of Spanish Health Research Carlos III (RD08/0072/0018: 2008-2012 y RD12/0026/0004: 2013-2017). Network Member of Enpr-EMA (Network fulfilling all minimum criteria)
- 2016- Member of Steering group European Brain Ultrasound ( EurUS.brain)- European Society of Neonatology (ESN)
- 2015- Expert Member in the European Network of Pediatric Research at the European Medicines Agency (Enpr-EMA)
- 2015- Invited member of Standing Advisory Group of Neonatal Drug Development European Medicines Agency (EMA). Enpr-EMA Neonatology working Group. (Meeting on neonatal collaboration between Investigators an the EMA).
- 2014- Steering committee member of the network SAMID (Network Member of Enpr-EMA)
- 2014- Head of the Commission for Clinical Research and Clinical Trials Research Network SAMID (Network Member of Enpr-EMA)
- 2014- Member of the Pharmacy Committee of the Quironsalud University Hospital Madrid
- Member of the Paediatric Expert Group of Spanish Medicine Evaluation Agency (AEMPS)
- 2003- Member of Biomedical Research Foundation Ethic Committee. La Paz University Hospital-IDIPAZ

### Publications

#### SELECTED RELEVANT PUBLICATIONS

Sánchez-Illana Á, Núñez-Ramiro A, Cernada M, Parra-Llorca A, Valverde E, Blanco D, Moral-Pumarega MT, Cabañas F, Boix H, Pavon A, Chaffanel M, Benavente-Fernández I, Tofe I, Loureiro B, Fernández-Lorenzo JR, Fernández-Colomer B, García-Robles A, Kuligowski J, Vento M; HYPOTOP Study Group. Evolution of Energy Related Metabolites in Plasma from Newborns with Hypoxic-Ischemic Encephalopathy during Hypothermia Treatment. *Sci Rep.* 2017 Dec 6;7(1):17039. doi: 10.1038/s41598-017-17202-7. PubMed PMID: 29213095

Núñez A, Benavente I, Blanco D, Boix H, Cabañas F, Chaffanel M, Fernández-Colomer B, Fernández-Lorenzo JR, Loureiro B, Moral MT, Pavón A, Tofé I, Valverde E, Vento M. Oxidative stress in perinatal asphyxia and hypoxic-ischaemic encephalopathy. *An Pediatr (Barc).* 2018 Apr;88(4):228.e1-228.e9. doi: 10.1016/j.anpedi.2017.05.005. Epub 2017 Jun 23. PubMed PMID:

28648366.

Alarcon A, Martinez-Biarge M, Cabañas F, Quero J, García-Alix A. A Prognostic Neonatal Neuroimaging Scale for Symptomatic Congenital Cytomegalovirus Infection. *Neonatology*. 2016 Jun 24;110(4):277-285. [Epub ahead of print]

PMID: 27344149

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.

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

Bravo MC, López-Ortego P, Sánchez L, Riera J, Madero R, Cabañas

F, Pellicer A. Randomized, Placebo-Controlled Trial of Dobutamine for Low Superior

Vena Cava Flow in Infants. *J Pediatr*. 2015 Sep;167(3):572-8.e1-2. doi:

10.1016/j.jpeds.2015.05.037. Epub 2015 Jun 24. PubMed PMID: 26116470.

Carbonell-Estrany X, Pérez-Yarza EG, García LS, Guzmán Cabañas JM, Bòria EV, Atienza BB; IRIS (Infección Respiratoria Infantil por Virus Respiratorio Sincitial) Study Group (Cabanas F et al). Long-Term Burden and Respiratory Effects of Respiratory Syncytial Virus Hospitalization in Preterm Infants-The SPRING Study. *PLoS One*. 2015 May 8;10(5):e0125422. doi: 10.1371/journal.pone.0125422. eCollection 2015.

PMID: 25955487

Riera J, Cabañas F, Serrano JJ, Bravo MC, López-Ortego P, Sánchez L, Madero R, Pellicer A. New time-frequency method for cerebral autorregulation in newborn: Predictive capacity for clinical outcomes. *J of Pediatr*. 2014 Jul 16. pii: S0022-3476(14)00525-3. doi: 10.1016/j.jpeds.2014.06.008. [Epub ahead of print] PMID: 25039050 [PubMed - as supplied by publisher]

Marin N, Valverde E, Cabañas F.

[Severe apparent life-threatening event during "skin-to-skin": treatment with hypothermia].

*An Pediatr (Barc)*. 2013 Oct;79(4):253-6. doi: 10.1016/j.anpedi.2013.06.009. Epub 2013 Sep 17. Spanish.

PMID: 24051185 [PubMed - in process]

Bravo MC, Cabañas F, Riera J, Pérez-Fernández E, Quero J, Pérez-Rodríguez J, Pellicer A.

Randomised controlled clinical trial of standard versus echocardiographically guided ibuprofen treatment for patent ductus arteriosus in preterm infants: a pilot study.

*JJ Matern Fetal Neonatal Med*. 2014 Jun;27(9):904-9. doi: 10.3109/14767058.2013.846312. Epub 2013 Oct 11.

PMID: 24047189

Durrmeyer X, Hummler H, Sanchez-Luna M, Carnielli VP, Field D, Greenough A, Van Overmeire B, Jonsson B, Hallman M, Mercier JC, Marlow N, Johnson S, Baldassarre J; European Union Nitric Oxide Study Group.

Two-year outcomes of a randomized controlled trial of inhaled nitric oxide in premature infants.

*Pediatrics*. 2013 Sep;132(3):e695-703. doi: 10.1542/peds.2013-0007. Epub 2013 Aug 12.

PMID: 23940237 [PubMed - indexed for MEDLINE]

Pérez-Yarza EG, Cabañas F, García-Algar O, Valverde-Molina J.

[Anales de Pediatría: the past, the present and the future].

*An Pediatr (Barc)*. 2013 Nov;79(5):277-8. doi: 10.1016/j.anpedi.2013.06.008. Epub 2013 Jul 31. Spanish. No abstract available.

PMID: 23916360 [PubMed - in process]

Langley JM, Carmona Martinez A, Chatterjee A, Halperin SA, McNeil S, Reisinger KS, Aggarwal N, Huang LM, Peng CT, Garcia-Sicilia J, Salamanca de la Cueva I, Cabañas F, Treviño-Garza C,

- Rodríguez-Weber MA, de la O M, Chandrasekaran V, Dewé W, Liu A, Innis BL, Jain VK. Immunogenicity and safety of an inactivated quadrivalent influenza vaccine candidate: a phase III randomized controlled trial in children. *J Infect Dis.* 2013 Aug 15;208(4):544-53. doi: 10.1093/infdis/jit263. Epub 2013 Jul 11. PMID: 23847058 [PubMed - indexed for MEDLINE]
- Alarcon A, Martinez-Biarge M, Cabañas F, Hemanz A, Quero J, Garcia-Alix A. J Pediatr. Clinical, Biochemical, and Neuroimaging Findings Predict Long-Term Neurodevelopmental Outcome in Symptomatic Congenital Cytomegalovirus Infection. 2013 *J Pediatr.* Apr 13. doi:pii: S0022-3476(13)00290-4. 10.1016/j.jpeds.2013.03.014. [Epub ahead of print] PMID: 23587436 [PubMed - as supplied by publisher]
- Pellicer A, Riera J, Lopez-Ortego P, Bravo MC, Madero R, Perez-Rodriguez J, Labrandero C, Quero J, Buño A, Castro L, Lubomirov R, Cabañas F. Phase 1 study of two inodilators in neonates undergoing cardiovascular surgery. *Pediatr Res.* 2013 Jan;73(1):95-103. doi: 10.1038/pr.2012.154. Epub 2012 Nov 8. PubMed PMID: 23138399.
- Blanco D, García-Alix A, Valverde E, Tenorio V, Vento M, Cabañas F; Comisión de Estándares de la Sociedad Española de Neonatología (SEN). [Neuroprotection with hypothermia in the newborn with hypoxic-ischaemic encephalopathy. Standard guidelines for its clinical application]. *An Pediatr (Barc).* 2011 Nov;75(5):341.e1-20. doi: 10.1016/j.anpedi.2011.07.012. Epub 2011 Sep 16. Spanish. PubMed PMID: 21925984.
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- Bravo MC, López P, Cabañas F, Pérez-Rodríguez J, Pérez-Fernández E, Quero J, Pellicer A. Acute effects of levosimendan on cerebral and systemic perfusion and oxygenation in newborns: an observational study. *Neonatology.* 2011;99(3):217-23. doi: 10.1159/000314955. Epub 2010 Sep 25. Erratum in: *Neonatology.* 2011;99(4):301. Bravo, María del Carmen [corrected to Bravo, María Carmen]; Quero, José [added]. PubMed PMID: 20881438.
- Evans N, Gournay V, Cabanas F, Kluckow M, Leone T, Groves A, McNamara P, Mertens L. Point-of-care ultrasound in the neonatal intensive care unit: international perspectives. *Semin Fetal Neonatal Med.* 2011 Feb;16(1):61-8. doi: 10.1016/j.siny.2010.06.005. Review. PubMed PMID: 20663724.
- Mercier JC, Hummler H, Durmeyer X, Sanchez-Luna M, Carnielli V, Field D, Greenough A, Van Overmeire B, Jonsson B, Hallman M, Baldassarre J; EUNO Study Group. Inhaled nitric oxide for prevention of bronchopulmonary dysplasia in premature babies (EUNO): a randomised controlled trial. *Lancet.* 2010 Jul 31;376(9738):346-54. doi: 10.1016/S0140-6736(10)60664-2. Epub 2010 Jul 23. PubMed PMID: 20655106.
- Pellicer A, Bravo MC, Madero R, Salas S, Quero J, Cabañas F. Early systemic hypotension and vasopressor support in low birth weight infants: impact on neurodevelopment. *Pediatrics.* 2009 May;123(5):1369-76. doi: 10.1542/peds.2008-0673. PubMed PMID: 19403504.
- Cabañas F, López-Azorín M, Pellicer A. [Assisted reproduction techniques and

the health of the newborn]. *An Pediatr (Barc)*. 2009 Apr;70(4):319-22. doi: 10.1016/j.anpedi.2009.02.001. Epub 2009 Mar 17. Spanish. PubMed PMID: 19282255.

Golombek SG, Sola A, Baquero H, Borbonet D, Cabañas F, Fajardo C, Goldsmit G, Lemus L, Miura E, Pellicer A, Pérez JM, Rogido M, Zambosco G, van Overmeire B; Primer Grupo de Consenso Clínico SIBEN. [First SIBEN clinical consensus: diagnostic and therapeutic approach to patent ductus arteriosus in premature newborns]. *An Pediatr (Barc)*. 2008 Nov;69(5):454-81. Spanish. PubMed PMID: 19128748.

Pérez-Yarza EG, Cabañas González F, Moreno Galdó A. [Anales de Pediatría: new challenges, new structure]. *An Pediatr (Barc)*. 2008 Dec;69(6):499-500. Spanish. PubMed PMID: 19128760.

Cabañas González F. [Neonatal research in Spain]. *An Pediatr (Barc)*. 2007 Oct;67(4):297-300. Spanish. PubMed PMID: 17949638.

Cabañas F, Moreno A, Pérez-Yarza EG. [Anales de Pediatría and the beginning of procedures to include the journal in Journal Citation Reports]. *An Pediatr (Barc)*. 2007 Mar;66(3):227-8. Spanish. PubMed PMID: 17349247.

Sánchez-Torres AM, García-Alix A, Cabañas F, Elorza MD, Madero R, Pérez J, Quero J. [Impact of cardiopulmonary resuscitation on extremely low birth weight infants]. *An Pediatr (Barc)*. 2007 Jan;66(1):38-44. Spanish. PubMed PMID: 17266853.

Valverde E, Pellicer A, Madero R, Elorza D, Quero J, Cabañas F. Dopamine versus epinephrine for cardiovascular support in low birth weight infants: analysis of systemic effects and neonatal clinical outcomes. *Pediatrics*. 2006 Jun;117(6):e1213-22. Epub 2006 May 22. PubMed PMID: 16717120.

Alarcon A, Garcia-Alix A, Cabañas F, Hernanz A, Pascual-Salcedo D, Martin-Ancel A, Cabrera M, Tagarro A, Quero J. Beta2-microglobulin concentrations in cerebrospinal fluid correlate with neuroimaging findings in newborns with symptomatic congenital cytomegalovirus infection. *Eur J Pediatr*. 2006 Sep;165(9):636-45. Epub 2006 May 12. PubMed PMID: 16691400.

Martín-Ancel A, García-Alix A, Salas S, Del Castillo F, Cabañas F, Quero J. Cerebrospinal fluid leucocyte counts in healthy neonates. *Arch Dis Child Fetal Neonatal Ed*. 2006 Sep;91(5):F357-8. Epub 2006 Jan 17. Review. PubMed PMID: 16418305; PubMed Central PMCID: PMC2672840.

Pellicer A, Valverde E, Elorza MD, Madero R, Gayá F, Quero J, Cabañas F. Cardiovascular support for low birth weight infants and cerebral hemodynamics: a randomized, blinded, clinical trial. *Pediatrics*. 2005 Jun;115(6):1501-12. PubMed PMID: 15930210.

Cabañas F, Moreno A, Pérez-Yarza EG. [Pediatric research and scientific publications]. *An Pediatr (Barc)*. 2003 Dec;59(6):525-8. Spanish. PubMed PMID: 14636515.

Pellicer Martínez A, Cabañas González F. [Fetuses, neonates and corticoids]. *An Pediatr (Barc)*. 2003 Jul;59(1):1-5. Spanish. PubMed PMID: 12887866.

González Pérez-Yarza E, Cabañas González F, Moreno Galdó A. [Impact factor, a strategic goal]. *An Pediatr (Barc)*. 2003 Jan;58(1):1-2. Spanish. PubMed PMID: 12628110.

Pellicer A, Gayá F, Madero R, Quero J, Cabañas F. Noninvasive continuous monitoring of the effects of head position on brain hemodynamics in ventilated

- infants. *Pediatrics*. 2002 Mar;109(3):434-40. PubMed PMID: 11875138.
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- Cabañas F, Pellicer A, Valverde E. [Non-invasive monitoring of cerebral hemodynamics in the newborn]. *Rev Neurol*. 2000 Oct 16-31;31(8):775-83. Review. Spanish. PubMed PMID: 11082889.
- del Campo M, Hall BD, Aeby A, Nassogne MC, Verloes A, Roche C, Gonzalez C, Sanchez H, Garcia-Alix A, Cabanas F, Escudero RM, Hernandez R, Quero J. Albinism and agenesis of the corpus callosum with profound developmental delay: Vici syndrome, evidence for autosomal recessive inheritance. *Am J Med Genet*. 1999 Aug 27;85(5):479-85. Review. PubMed PMID: 10405446.
- Pellicer A, Aparicio M, Cabañas F, Valverde E, Quero J, Stiris TA. Effect of the cyclo-oxygenase blocker ibuprofen on cerebral blood volume and cerebral blood flow during normocarbica and hypercarbia in newborn piglets. *Acta Paediatr*. 1999 Jan;88(1):82-8. PubMed PMID: 10090554.
- Pellicer A, Gayá F, Stiris TA, Quero J, Cabañas F. Cerebral haemodynamics in preterm infants after exposure to dexamethasone. *Arch Dis Child Fetal Neonatal Ed*. 1998 Sep;79(2):F123-8. PubMed PMID: 9828739; PubMed Central PMCID: PMC1720841.
- Martín-Ancel A, García-Alix A, Pascual-Salcedo D, Cabañas F, Valcarce M, Quero J. Interleukin-6 in the cerebrospinal fluid after perinatal asphyxia is related to early and late neurological manifestations. *Pediatrics*. 1997 Nov;100(5):789-94. PubMed PMID: 9346977.
- Cabañas F, Pellicer A, García-Alix A, Quero J, Stiris TA. Effect of dexamethasone therapy on cerebral and ocular blood flow velocity in premature infants studied by colour Doppler flow imaging. *Eur J Pediatr*. 1997 Jan;156(1):41-6. PubMed PMID: 9007490.
- Cabañas F, Pellicer A, Valverde E, Morales C, Quero J. Central nervous system vasculopathy in neonatal lupus erythematosus. *Pediatr Neurol*. 1996 Sep;15(2):124-6. PubMed PMID: 8888046.
- Martín-Ancel A, García-Alix A, Gayá F, Cabañas F, Burgueros M, Quero J. Multiple organ involvement in perinatal asphyxia. *J Pediatr*. 1995 Nov;127(5):786-93. PubMed PMID: 7472837.
- González de Dios J, García-Alix A, Cabañas F, Quero J, Moya M. [Cerebellar hypoplasia in the newborn: association with respiratory control disorders and mental retardation]. *Rev Neurol*. 1995 Sep-Oct;23(123):1041-6. Spanish. PubMed PMID: 8556588.
- Pellicer A, Cabañas F, Pérez-Higueras A, García-Alix A, Quero J. Neural migration disorders studied by cerebral ultrasound and colour Doppler flow imaging. *Arch Dis Child Fetal Neonatal Ed*. 1995 Sep;73(2):F55-61. PubMed PMID: 7583607; PubMed Central PMCID: PMC2528506.
- García-Alix A, Martín-Ancel A, Ramos MT, Salas S, Pellicer A, Cabañas F, Quero J. Cerebrospinal fluid beta 2-microglobulin in neonates with central nervous system infections. *Eur J Pediatr*. 1995 Apr;154(4):309-13. PubMed PMID: 7607283.
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- pattern of hyperechogenicity in thalamus and basal ganglia studied by color Doppler flow imaging. *Pediatr Neurol.* 1994 Mar;10(2):109-16. PubMed PMID: 7912932.
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- González de Dios J, García-Alix A, Cabañas F, Pérez Rodríguez J, Quero Jiménez J. [McKusick-Kaufman syndrome: manifestation of hydrometrocolpos]. *An Esp Pediatr.* 1992 Mar;36(3):242-5. Review. Spanish. PubMed PMID: 1316089.
- García González PL, García-Alix Pérez A, García Rubio B, Morales Bastos C, Cabañas González F, Pellicer Martínez A, Quero Jiménez J. [Injury to the cervical spinal cord in newborn infants]. *An Esp Pediatr.* 1992 Nov;37(5):419-21. Spanish. PubMed PMID: 1456629.
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- Díaz A, Velasco AC, Hawkins F, Cabañas F. *Aeromonas hydrophila*-associated diarrhea in a neonate. *Pediatr Infect Dis.* 1986 Nov-Dec;5(6):704. PubMed PMID: 3797303.
- García-Monge Santidrian S, Hawkins Carranza F, Arroyo Carrera I, Muro Brussi M, Sacristán Martín A, Cabañas González F, Escribá Polo R, Magallón Martínez M, Quero Jiménez J. [Use of high doses of intravenous immunoglobulin in the treatment of neonatal thrombocytopenia secondary to maternal idiopathic thrombopenic purpura]. *An Esp Pediatr.* 1988 Oct;29(4):333-4. Spanish. PubMed PMID: 3232883.

## Projects

## Memberships

International Societies Membership

Since

1990- European Society of Perinatal Medicine

1991- European Society of Magnetic Resonance in Neuropediatrics (Council member 1991-1993)

1994- American Institute of Ultrasound in Medicine

1993- European Society for Pediatric Research (ESPR)

1994- ESPR Working Group on Brain and Development

Council member (1996-2000)

1994- Society for Pediatric Research (SPR) Affiliate member (USA)

2004-2007; vice-president of Iberoamerican Society of Neonatology (SIBEN)

2007- Sept 2013 President of Iberoamerican Society of Neonatology (SIBEN)

2013- European Academy of Pediatrics

2016- Member of Steering group European Brain Ultrasound ( EurUS.brain)- European Society of Neonatology (ESN)

#### Other Relevant Information

Other scientific qualifications

Invited speaker: 76 lectures at international meetings

Research tutoring (PhD): 5 PhD

Research review: regular reviewer for 6 journals (5 international-English journals)

OTHERS

Member of the Paediatric Expert Group of Spanish Medicine Evaluation Agency (AEMPS)

2003- Member of Biomedical Research Foundation Ethic Committee. La Paz University Hospital- IDIPAZ

Co-Editor of Anales de Pediatría (Barc). Since 2000-2013 (ISI)