

### BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.

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NAME Ana Megia, MD, PhD		POSITION TITLE Endocrinology and Nutrition Section. University Hospital Joan XXIII. School of Medicine. Rovira I Virgili University	
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Barcelona University	BS/MD	1982-87	Medicine and Surgery
Madrid Autonomous University	PhD	1996	Medicine
Hospital La Paz/Madrid		1988-1991	Endocrinology an Nutrition specialty

#### A. Personal statement.

After the specialization in Endocrinology and Nutrition at Hospital La Paz in Madrid, I benefit for a predoctoral fellow position in the same institution that established the basis of my future research activity in the field of Endocrinology. I achieved my Ph.D. in 1996. Since 1994 to 2002 I worked as an endocrinologist at the Sant Pau i Santa Tecla Hospital in Tarragona. In 2002, I moved to the University Hospital Joan XXIII where I have developed my professional activity since then. In parallel, I have also taught as associated professor at the Rovira I Virgili University (URV) and developed my research activity. I belong to the Diabetes and Metabolic Associated Diseases research group (Diamet) that co-chairs Dr. Joan Vendrell and Dra. Sonia Fernandez-Veledo, Ciberdem and the Diabetes and Pregnancy Spanish Group.

Research: It is focused in the pathophysiology of the mechanisms of insulin resistance of diabetes and other metabolic diseases, and specifically in gestational diabetes trying to find out some biomarkers and to study its repercussion on fetal growth and perinatal outcomes, but also in the study of postpartum re-evaluation of gestational diabetes.

#### B. Positions and Honors.

##### Positions and Employment

Years	Position, Place
1987-1991	MIR of Endocrinology. Hospital La Paz. Madrid
1992	Fellow post –residence. Hospital La Paz. Madrid
1993	Endocrinologist. Hospital Móstoles. Madrid
1994-2002.	Endocrinologist. Hospital Sant Pau I Santa Tecla.Tarragona
2002-present	Endocrinologist. University Hospital Joan XXIII. Tarragona.
2002-present	Associate Professor Rovira I Virgili Hospital

##### Other Experience and Professional Memberships

2000 - present	Peer-review activities for scientific international journals
2010 - present	Peer-Reviewer Agencia Nacional de Evaluacion y Prospectiva (ANEP)
2014- present	Peer-reviewer Fundación Progreso y Salud (Junta Andalucía)
2012 - 2016	Coordinator of the Diabetes and Pregnancy Spanish Group

### C. Selected peer-reviewed publications and patent citations. (last 6 years)

**Authors:** Bruno Martínez-Pérez, Miriam Ejarque, Cristina Gutiérrez, Catalina Nuñez-Roa, Kelly Roche, Rocío Vila-Bedmar, Mónica Ballesteros, Ibon Redondo-Angulo, Anna Planavila, Francesc Villarroya, Joan Vendrell, Sonia Fernández-Veledo, **Ana Megia**

**Title:** Angiopoietin-like protein 8 (ANGPTL8) in pregnancy: A brown adipose tissue-derived endocrine factor with a potential role in fetal growth.

**Journal:** Translational Research

**IF:** 4.557

**Authors:** Llauradó G, **Megia A**, Cano A, Giménez-Palop O, Simón I, González-Sastre M, Berlanga E, Fernández-Veledo S, Vendrell J, González-Clemente JM.

**Title:** FGF-23/Vitamin D Axis in Type 1 Diabetes: The Potential Role of Mineral Metabolism in Arterial Stiffness.

**Journal:** PLOS ONE 2015; 10: e0140222

**IF:** 3.037

**Authors:** Megia A, Gil-Lluís P, Näf S, Ceperuelo-Mallafré V, Gonzalez-Clemente JM, Llauradó G, Nuñez-Roa C, Roche K, Ballesteros M, Yañez RE, Fernandez-Veledo S, Vendrell J.

**Title:** Cord Blood FGF21 in Gestational Diabetes and its relationship with postnatal growth.

**Journal:** Acta Diabetologica 2015; 52: 693-700

**Authors:** Simón-Muela I, Llauradó G, Chacón MR, Olona M, Näf S, Maymo-Masip E, Gil P, De la Flor M, Gonzalez-Clemente JM, Vendrell J, Megia A.

**Title:** Reduced circulating levels of TWEAK are associated with gestational diabetes mellitus.

**Journal:** European Journal Clinical Investigation, 2015 45: 27-35 **IF:** 2.687

**Authors:** Näf S, Escote X, Ballesteros M, Yañez RE, Simón-Muela I, Gil P, Albaiges G, Vendrell J, **Megia A**.

**Title:** Serum activin A and follistatin levels in gestational diabetes and the association of the Activin A-Follistatin system with anthropometric parameters in offspring

**Journal:** PLoS ONE 2014; 24:E92175;

**IF:** 3.234

**Authors:** Bassols J, **Megia A**, Soriano-Rodríguez P, Díaz M, Prats-Puig A, Gifre M, Simón-Muela I, Torrent S, Borrell AC, Riera-Socasau JC, Vendrell J, de Zegher F, Ibáñez L, López-Bermejo A.

**Title:** A common gene variant in STK11 is associated with metabolic risk markers and diabetes during gestation

**Journal:** Fertility and Sterility 2014; 100: 788-92

**IF:** 4.59

**Authors:** Simón-Muela I, Näf S, Ballesteros M, Vendrell J, Ceperuelo-Mallafre V, de la Flor M, **Megia A**

**Title:** Gender determines the actions of adiponectin multimers on fetal growth and adiposity

**Journal:** Am J Obstet Gynecol 2013

**IF:** 3.973

**Authors:** Näf S, Escote X, Yañez RE, Ballesteros M, Simón I, Gil P, **Megia A**, Vendrell J

**Title:** Zinc- $\alpha$ -glycoprotein is unrelated to gestational diabetes: anthropometric and metabolic determinants in pregnant women and their offspring.

**Journal:** PLOS ONE 2012; 7: e47601

**IF:** 3.730

**Authors:** Megia A, Näf S, Herranz L, Serrat N, Yañez R, Simón I, Vendrell J

**Title:** The usefulness of HbA1c in postpartum reclassification of gestational diabetes

**Journal:** BJOG 2012; 119: 891-4

**Authors:** Ballesteros M, Simón I, Vendrell J, Ceperuelo-Mallafré V, Miralles RM, Albaiges G, Tinahones F, **Megia A**

**Title:** Maternal and Cord Blood Adiponectin Multimeric Forms in Gestational Diabetes Mellitus: A prospective analysis

**Journal:** Diabetes Care 2011; 34: 2418-23

**IF:** 8.09

**Authors:** Vendrell J, El Bekay R, Peral B, García-Fuentes E, **Megia A**, Macias-Gonzalez M, Fernández Real J, Jimenez-Gomez Y, Escoté X, Pachón G, Simó R, Selva DM, Malagón MM, Tinahones FJ

**Title:** Study of the Potential Association of Adipose Tissue GLP-1 Receptor with Obesity and Insulin Resistance

**Journal:** Endocrinology 2011; 152: 4072-9

**IF:** 4.459

**Authors:** Llauradó G, Gallart L, Tirado R, **Megia A**, Simón I, Caixàs A, Giménez-Palop O, Berlanga E, Vendrell J, González-Clemente JM.

**Title:** Insulin resistance, low-grade inflammation and type 1 diabetes mellitus.

**Journal:** Acta Diabetologica 2012; 49: 33-9

IF: 4.631

**Authors:** Escoté X, **Megia A**, López-Dupla M, Miranda M, Veloso S, Alba V, Domingo P, Pardo P, Viladés C, Peraire J, Giralt M, Richart C, Vendrell J, Vidal F; for the HIV-1 Lipodystrophy Study Group.

**Title:** A study of fatty acid binding protein 4 in HIV-1 infection and in combination antiretroviral therapy-related metabolic disturbances and lipodystrophy.

**Journal:** HIV Med 2011; 12: 428-437

IF: 3.01

**Authors:** Vendrell J, Maymó-Masip E, Tinahones F, García-España A, **Megia A**, Caubet E, García-Fuentes E, Chacón MR.

**Title:** Tumor necrosis-like weak inducer of apoptosis as a proinflammatory cytokine in human adipocyte cells: up-regulation in severe obesity is mediated by inflammation but not hypoxia.

**Journal:** J Clin Endocrinol Metab 2010 05: 2983-92

IF: 6.5

**Authors:** Miranda M, Escoté X, Ceperuelo-Mallafre V, Megia A, Caubet E, Näf S, Gómez JM, González-Clemente JM, Vicente V, Vendrell J.

**Title:** Relation between human LPIN1, hypoxia and endoplasmic reticulum stress genes in subcutaneous and visceral adipose tissue

**Journal:** Int J Obes 2010; 34: 679-86

IF: 5.125

#### **D. Research Support (only last 6 years)**

**Project title:** Betatropina en la gestación normal y en la diabetes gestacional. Relación con el metabolismo lipídico e hidrocarbonado y con el crecimiento fetal.

**Financial entity:** Fondo de Investigación Sanitaria (National Research Health Institute)

**Number of the project / contract:** PI15/01562 Funding: **159.115 €** Length, from: 2016 To: 2018

**Principal investigator:** Ana Megia

**Project title:** Papel de las metilaciones del ADN en la en la diabetes gestacional como predictor de alteraciones en el metabolismo hidrocarbonado postparto.

**Financial entity:** Fondo de Investigación Sanitaria (National Research Health Institute)

**Number of the project / contract:** PI12/0717 Funding: **32065 €** Length, from: 2013 To: 2015

**Principal investigator:** Ana Megia

**Project title:** Estudi del Grau de Metilació de l'ADN en pacients amb diabetes gestacional i en gestants amb tolerancia normal a la glucosa.

**Financial entity:** Associació Catalana Diabetis

**Number of the project / contract:** PI12/0717 Funding: **32065 €** Length, from: 2013 To: 2015

**Principal investigator:** Pilar Gil –Lluís

**Project title:** Rellevància del TWEAK i CD163 a la diabetes gestacional. Relació amb la resistència a la insulina, el creixament fetal i l'adipositat del nounat..

**Financial entity:** IISPV

**Number of the project / contract:** 2010/IISPV/06 Funding: **2969 €** Length, from: 2011To: 2012

**Principal investigator:** Ana Megia

**Project title:** Papel de las isoformas circulantes de la adiponectina en la diabetes mellitus gestacional. Relación con el metabolismo hidrocarbonado y el desarrollo antropométrico fetal.

**Financial entity:** Fondo de Investigación Sanitaria (National Research Health Institute)

**Number of the project / contract:** PI 09/2152 Funding: **74415 €** Length, from: 2010-2012

**Principal investigator:** Inmaculada Simón

**Project title:** Adult Adipose Tissue-Derived Progenitor Cells: Influence of the clinical phenotype and adipose depot origin in their biological properties.

**Financial entity:** CIBER de Diabetes y Enfermedades Metabólicas Asociadas

**Number of the project / contract:** StemOb Funding: 62.485 € Length, from: 2009 To: 2010

**Principal investigator:** Joan Vendrell Ortega

