

The Eicosanoid Research Division

Instituto de Biología y Genética Molecular, Consejo Superior de Investigaciones Científicas, Valladolid
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Publications: 5

First decile: 1

Q1: 4

With other Ciberdem groups: 1

With other CIBERs: 1

With other international groups: 1

Research grants: 3

National projects: 2

Autonomous Community projects: 1

Scientific collaborations within Ciberdem: 1

PhD theses: 2

Programmes

Programme 4. Use of biomedical approach systems to develop personalized therapies for diabetes.

Keywords

Cytokines. Lipid metabolism. Lipid signalling. Phospholipases.

Main lines of research

-Lipid metabolic pathways in obesity and inflammation: roles of lipins and phospholipases A2.

-Lipid profiling by mass spectrometry; lipidomic and metabolipidomic approaches.

-The molecular cell biology of lipid droplets.

-Cell regulation of ω -6 and ω -3 fatty acid availability.

Publications

Altered arachidonate distribution in macrophages from caveolin-1 null mice leading to reduced eicosanoid synthesis
Astudillo AM, Pérez-Chacón G, Meana C, Balgoma D, Pol A, Del Pozo MA, Balboa MA, Balsinde J
J Biol Chem, 286, 35299-35307 (2011)
[PMID 21852231](https://pubmed.ncbi.nlm.nih.gov/21852231/). Q1. IF 5.328. Programme 4

Caveolin-1 deficiency causes cholesterol-dependent mitochondrial dysfunction and apoptotic susceptibility

Bosch M, Mari M, Herms A, Fernández A, Fajardo A, Kassan A, Giralt A, Colell A, Balgoma D, Barbero E, González-Moreno E, Matias N, Tebar F, Balsinde J, Camps M, Enrich C, Gross SP, García-Ruiz C, Pérez-Navarro E, Fernández-Checa JC, Pol A

Curr Biol, 21, 681-686 (2011)

PMID 21497090. 1st decile. IF 10.026. With other CIBERs: Cibernet. With other international groups. Programme 4

Influence of cellular arachidonic acid levels on phospholipid remodeling and CoA-independent transacylase activity in human monocytes and U937 cells

Astudillo AM, Pérez-Chacón G, Balgoma D, Gil-de-Gómez L, Ruipérez V, Guijas C, Balboa MA, Balsinde J

Biochim Biophys Acta, 1811, 97-103 (2011)

PMID 21145415. Q1. IF 5.084. Programme 4

Subcellular localization and role of lipin-1 in human macrophages

Valdearcos M, Esquinas E, Meana C, Gil-de-Gómez L, Guijas C, Balsinde J, Balboa MA

J Immunol, 186, 6004-6013 (2011)

PMID 21478406. Q1. IF 5.745. Programme 4

The PPAR β/δ activator GW501516 prevents the down-regulation of AMPK caused by a high-fat diet in liver and amplifies the PGC-1 α -Lipin 1-PPAR α pathway leading to

increased fatty acid oxidation

Barroso E, Rodríguez-Calvo R, Serrano-Marco L, Astudillo AM, Balsinde J, Palomer X, Vázquez-Carrera M

Endocrinology, 152, 1848-1859 (2011)

PMID 21363937. Q1. IF 4.993. With other Ciberdem groups: Vázquez-Carrera M. Programme 4

Research grants

Estudio por espectrometría de masas del perfil lipídico de macrófagos humanos polarizados

Ministerio de Educación y Ciencia, BFU2010-18826/BMC: 2011-2013

Principal Investigator: J Balsinde

National project. Programme 4

Regulación de los procesos inflamatorios por lipina: papel en la transducción de señal en macrófagos humanos

Ministerio de Ciencia e Innovación, SAF2010-18831: 2011-2012

Principal Investigator: MA Balboa

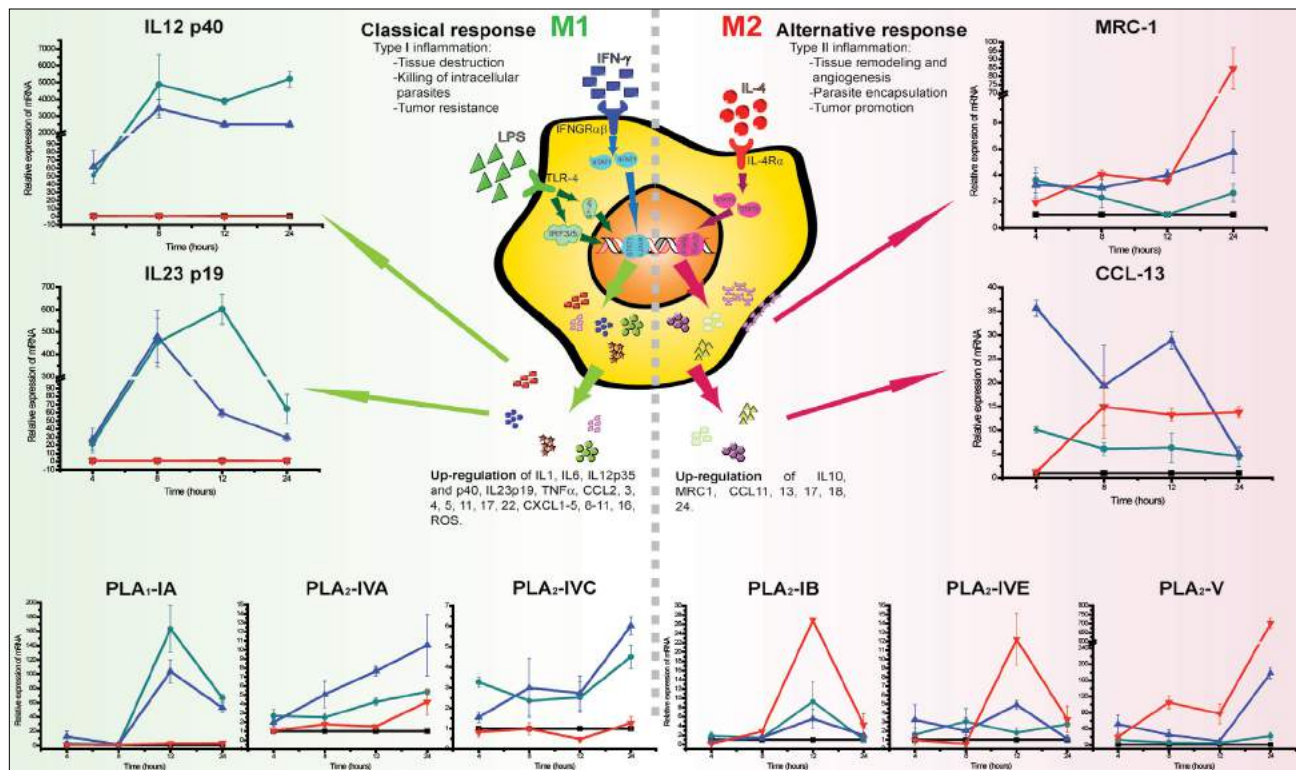
National project. Programme 4

The regulation of inflammation by lipin, an enzyme involved in obesity

Junta de Castilla y León, BIO39/VA04/10: 2010-2011

Principal Investigator: MA Balboa

Autonomous Community project. Programme 4



Expression of phospholipases A2 in human macrophage polarization.

Scientific collaborations within Ciberdem

Adult adipose tissue-derived progenitor cells: the influence of the clinical phenotype and adipose depot origin on their biological properties

STEMOB: 2009-2011

Coordinator: Joan J Vendrell

Ciberdem groups: Balsinde J, Vendrell J, Zorzano A, Gómez-Foix AM, Montanya E, Simó R, Vázquez-Carrera M

PhD theses

Regulación de la respuesta inflamatoria inducida por ácidos grasos en macrófagos: papel de la lipina-2

Author: Martín Valdearcos Contreras

Thesis advisor: Jesús Balsinde

University: Universidad de Valladolid

Thesis defense date: April 15, 2011

Programme 4

Mecanismos de control de los niveles de ácido araquidónico en monocitos y macrófagos

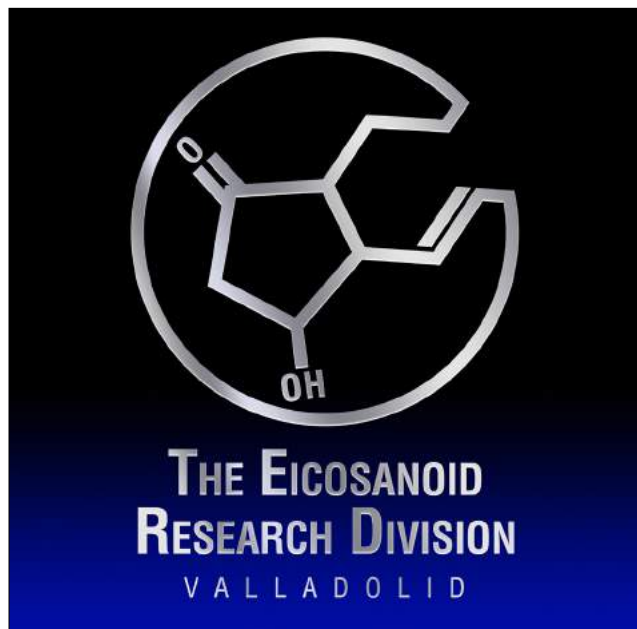
Author: Alma Astudillo del Valle

Thesis advisor: Jesús Balsinde

University: Universidad de Valladolid

Thesis defense date: July 29, 2011

Programme 4 ■



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