

Part A. PERSONAL INFORMATION		CV date		28/09/2018
First and Family name	Joan RIBOT RIUTORT			
Social Security, Passport, ID number	18222551L	Age	45	
Researcher numbers	Researcher ID	L-2224-2014		
	Orcid code			

A.1. Current position

University/Institution	<i>Universitat de les Illes Balears</i>			
Department	Laboratory of Molecular Biology, Nutrition and Biotechnology			
Address and Country	Cra. Valldemossa, km 7.5. ES-07122 Palma (SPAIN)			
Phone number	+34971259506	E-mail	joan.ribot@uib.es	
Current position	<i>Profesor Titular de Universidad</i> (Associate Professor)	From	25/09/2008	
Espec. cód. UNESCO	2415, 3309			
Palabras clave	Obesity; Molecular nutrition; Metabolic control; Vitamin A			

A.2. Academic Education

B./M./Ph.D.	University	Year
<i>Licenciado con grado</i> (M.Sc.) in Sciences (Biology)	<i>Universitat de les Illes Balears</i>	1995
<i>Licenciado</i> (B.Sc.) in Biochemistry	<i>Universitat de les Illes Balears</i>	1998
Ph.D. in Biochemistry (with European Doctorate Mention)	<i>Universitat de les Illes Balears</i>	2000
Specialist in Clinical Biochemistry	General Directorate of Universities. Ministry of Education and Science	2006

A.3. General quality indicators of scientific production

- 6-year periods of recognized research ("sexenios"): **3** periods recognized (the last granted until 12/31/2014).
- Number of doctoral theses directed in the last 10 years: **4** and 1 ongoing.
- Total number of citations: **1309** (source: Web of Science).
- Average citations per year during the last 5 years (excluded current year): **127.2** (source: Web of Science).
- Total number of publications in the first quartile (Q1) **26** (source: Web of Science y Journal Citation Reports).
- h-index: **20** (source: Web of Science).

Part B. CV SUMMARY (max. 3500 characters, including spaces)

Researcher of the research group "Nutrigenomics and Obesity" of the Laboratory of Molecular Biology, Nutrition and Biotechnology (LBNB) at the University of the Balearic Islands (UIB), the *Centro de Investigación Biomédica en Red-Fisiopatología de la Obesidad y Nutrición* (CIBEROBN, an initiative of the Carlos III Health Institute), and the *Institut d'Investigació Sanitària de les Illes Balears* (IdISBa).

His research focuses on the field of Molecular Nutrition and Molecular Pathophysiology, more specifically focusing on the study of the molecular mechanisms involved in the control of cellular and metabolic processes by food and food components in relation to weight control body, obesity and its associated metabolic complications, cancer and aging. An emerging example, which is the main focus of his publications, is the involvement of vitamin A in the regulation of the level and functioning of body fat reserves. Apart of these nutritional implications, he establish an appropriate animal model in studies investigating beta-caroten biological activity. In addition, he is involved in the identification and validation of new biomarkers for the characterization and quantification of physiological functions related to food and health.

He has done his thesis at the UIB, on adipogenesis and its modulation by retinoids under the direction of A Palou and F Serra. He has made short stays of predoctoral training in the Department of Internal Medicine of the Faculty of Medicine of the University of Oulu and in the Oulu Biocenter (Finland) and already as a doctor in the Institute of Biology I, Animal Physiology and Neurobiology, of the University of Freiburg (Germany).

He has participated in several research projects and thematic networks financed with public funds and in collaboration with the industry. Currently he is member of the Management Committee of the Cost Action CA15136-EUROCARTEN, and is PI of the project MECALI funded by the UIB. He is a founder member of the UIB spin-off company Alimentómica S.L., focused in the research and development of new components, technologies, and innovations to improve people's diet and health.

Author of more than 40 original research articles and reviews, published in prestigious international journals, such as: Progress in Lipid Research, Diabetes, Endocrinology, Molecular Nutrition and Food Sciences, International Journal of Obesity, American Journal of Physiology, FEBS letters. Author also of several books and book chapters, and more than 70 communications in National and International Congresses/Scientific Meetings.

Associate Professor of Biochemistry and Molecular Biology of the Department of Fundamental Biology and Health Sciences of the UIB since 2008. Large teaching expertise (more than 3000 hours of official teaching in a total of 17 academic years as Assistant and Associate Professor). He belongs to the Academic Commission of the Master and Inter-University Doctorate on Nutrigenomics and Personalized Nutrition (UIB-UPV-URV).

He has co-directed four doctoral theses and is currently supervising a doctoral thesis in the Inter-University Doctorate on Nutrigenomics and Personalized Nutrition at the UIB. He has been Director of more than 25 Bachelor and Master's Degree Projects. He has also been Tutor of several scholarships for student collaborator in research tasks and student internships for students in the last years of Degree.

Part C. RELEVANT MERITS

C.1. Publications

1. Programming of the Beige Phenotype in White Adipose Tissue of Adult Mice by Mild Resveratrol and Nicotinamide Riboside Supplementations in Early Postnatal Life. Serrano A, Asnani-Kishnani M, Rodríguez AM, Palou A, **Ribot J**, Bonet ML. Mol Nutr Food Res. 2018 Aug 10:e1800463.
2. Dietary vitamin A impacts DNA methylation patterns of adipogenesis-related genes in suckling rats. Arreguín A, **Ribot J**, Mušinović H, von Lintig J, Palou A, Bonet ML. Arch Biochem Biophys. 2018 Jul 15;650:75-84.
3. A global perspective on carotenoids: Metabolism, biotechnology, and benefits for nutrition and health. Rodríguez-Concepcion M, Avalos J, Bonet ML, Boronat A, Gomez-Gomez L, Hornero-Mendez D, Limon MC, Meléndez-Martínez AJ, Olmedilla-Alonso B, Palou A, **Ribot J**, Rodrigo MJ, Zacarias L, Zhu C. Prog Lipid Res. 2018;70:62-93.
4. Retinoic Acid Increases Fatty Acid Oxidation and Irisin Expression in Skeletal Muscle Cells and Impacts Irisin In Vivo. Amengual J, García-Carrizo FJ, Arreguín A, Mušinović H, Granados N, Palou A, Bonet ML, **Ribot J**. Cell Physiol Biochem. 2018;46(1):187-202.
5. Consumption of a Mango Fruit Powder Protects Mice from High-Fat Induced Insulin Resistance and Hepatic Fat Accumulation. Sabater AG, Ribot J, Priego T, Vazquez I, Frank S, Palou A, Buchwald-Werner S. Cell Physiol Biochem. 2017;42(2):564-578
6. Cell-Autonomous Brown-Like Adipogenesis of Preadipocytes From Retinoblastoma Haploinsufficient Mice. Petrov PD, Palou A, Bonet ML, **Ribot J**. J Cell Physiol. 2016;231(9):1941-52.
7. Whole Blood RNA as a Source of Transcript-Based Nutrition- and Metabolic Health-Related Biomarkers. Petrov PD, Bonet ML, Reynés B, Oliver P, Palou A, **Ribot J**. PLoS One. 2016;11(5):e0155361.
8. All-trans retinoic acid induces oxidative phosphorylation and mitochondria biogenesis in adipocytes. Tourniaire F, Mušinović H, Gouranton E, Astier J, Marcotorchino J, Arreguín A, Bernot D, Palou A, Bonet ML, **Ribot J**, Landrier JF. J Lipid Res. 2015;56(6):1100-9.
9. Mušinović H, Bonet ML, Granados N, Amengual J, von Lintig J, **Ribot J**, Palou A. β -Carotene during the suckling period is absorbed intact and induces retinoic acid-

dependent responses similar to preformed vitamin A in intestine and liver but not adipose tissue of young rats. *Mol Nutr Food Res.* 2014;58(11):2157-65.

10. Granados N, Amengual J, **Ribot J**, Mušinić H, Ceresi E, von Lintig J, Palou A, Bonet ML. Vitamin A supplementation in early life affects later response to an obesogenic diet in rats. *Int J Obes (Lond).* 2013;37(9):1169-76.

C.2. Research projects and grants

1. Project title: **CaRed: Red Española de Carotenoides** (BIO2017-90877-REDT)
Funding agency/Programme: Programa Estatal de Fomento de la Investigación Científica y Técnica de Excelencia, Subprograma Estatal de Generación de Conocimiento, convocatoria 2017, modalidad 3: Acciones de dinamización "Redes de Excelencia" del Ministerio de Economía, Industria y Competitividad
Amount: 17.000 € Duration, from: 01/01/2019 to: 31/12/2020
PI: Manuel Rodríguez Concepcion
Type of participation: Researcher
2. Project title: **European network to advance carotenoid research and applications in agro-food and health** (EUROCAROTEN, Cost Action CA15136)
Funding agency/Programme: COST, EU Framework Programme Horizon 2020.
Amount: 144.000 €/primer año Duration, from: 18/04/2016 to: 17/04/2020
PI: Antonio J. Melendez-Martinez
Type of participation: Member of the Management Committee
3. Project title: **La interacción entre nutrientes/bioactivos de los alimentos como determinante de la programación metabólica en la prevención de la obesidad y sus complicaciones** (INTERBIOBES, AGL2015-67019-P)
Funding agency/Programme: Programa Nacional de Tecnologías de los Alimentos Gobierno de España. MINECO.
Amount: 183.799 € Duration, from: 01/01/2016 to: 31/12/2018
PI: Andreu Palou Oliver & Catalina Picó Segura
Type of participation: Researcher
4. Project title: **Detección y caracterización de compuestos bioactivos en la leche. Un enfoque nutriepigenético contra la obesidad** (EPIMILK; AGL2012-33692)
Funding agency/Programme: Proyectos de investigación, subprograma de proyectos de investigación fundamental no orientada del Ministerio de Economía y Competitividad
Amount: 444.600€. Duration, from: 01/01/2013 to: 31/12/2015
PI: Andreu Palou Oliver
Type of participation: Researcher
5. Project title: **Recruitment and activation of brown adipocytes as preventive and curative therapy for type 2 diabetes** (DIABAT; HEALTH-F2-2011-278373)
Funding agency/Programme: VII Programa Marco de la Unión Europea
Administración financiadora: Unión Europea
Amount: 6.000.000€ (211.260€ for UIB). Duration, from: 01/10/2011 to: 30/09/2015
IP: Stephan Herzig (Andreu Palou Oliver, at UIB)
Type of participation: Researcher
6. Project title: **BIOMarkers of Robustness of Metabolic Homeostasis for Nutrigenomics-derived Health CLAIMS Made on Food** (BIOCLAIMS; FP7-244995)
Funding agency/Programme: VII Programa Marco de la Unión Europea
Administración financiadora: Unión Europea
Amount: 5.999.965€ (998.532€ for UIB). Duration, from: 01/03/2010 to: 28/02/2015
PI: Andreu Palou Oliver
Type of participation: Researcher
7. Project title: **Biomarcadores nutrigenómicos de salud/desequilibrio homeostático de interés para potenciales declaraciones de propiedades saludables en alimentos. Estudio enfocado en la obesidad y sus complicaciones** (BIOBESMARKERS; AGL 2009-11277, subprograma ALI)
Funding agency/Programme: Programa Nacional de Tecnologías de los Alimentos del Ministerio de Ciencia e Innovación
Amount: 630.410€. Duration, from: 01/01/2010 to: 31/12/2012
PI: Andreu Palou Oliver
Type of participation: Researcher

C.3. Contracts

1. Contract title: **ALIÓPTIMA. Identificación de necesidades específicas de nutrientes y otros bioactivos en relación con actuales y posibles health claims, y sus combinaciones, para el diseño de alimentos y complementos multifuncionales apropiados en nutrición personalizada. Estudio de posible validación in vitro.**
Funding agency/company: Centro para el Desarrollo Tecnológico Industrial (CDTI)-Alimentómica S.L. Contrato integrado en el proyecto dentro del PROGRAMA ESTRATÉGICO CIEN, IDI-20141208.
Amount: 67.500,00€. Duración desde: 17/07/2014 to: 17/07/2018
PI: Dra. M. Luisa Bonet Piña & Dr. Andreu Palou Oliver
Type of participation: Researcher
2. Contract title: **Identificación y caracterización nutrigenómica de marcadores de alteraciones articulares en el sobrepeso y la obesidad y su potencial control por mucopolisacáridos**
Funding agency/company: Centro para el Desarrollo Tecnológico Industrial (CDTI)-Bioiberica SA. Dicho contrato está integrado como subproyecto (selección competitiva) en el proyecto CENIT-2008-1004 PRONAOS liderado por Puleva Biotech SA.
Amount: 300.000€. Duration, from: 30/04/2008 to: 30/09/2013
PI: M. Luisa Bonet Piña & Andreu Palou Oliver
Type of participation: Researcher
3. Contract title: **Estudio de posibles propiedades de GAGs desarrollados por la empresa en la adipogénesis y su implicación en la obesidad**
Funding agency/company: Centro para el Desarrollo Tecnológico Industrial (CDTI)-Bioibérica SA. Dicho contrato está integrado como subproyecto (selección competitiva) en el proyecto CENIT-2008-1004 PRONAOS liderado por Puleva Biotech SA.
Amount: 150.000€ Duración: desde: 22/11/2010 to: 31/12/2011
PI: M. Luisa Bonet Piña & Andreu Palou Oliver
Type of participation: Researcher
4. Contract title: **El papel de algunas grasas vegetales en la alimentación y la salud y aspectos mecánicos de sus potenciales efectos durante el desarrollo y a largo plazo**
Funding agency/company: Unilever España S.A. (Instituto Flora). Contrato art. 11 LRU.
Amount: 21.000,00€ Duration, from: 30/04/2008 to: 01/02/2009
PI: Catalina Picó Segura
Type of participation: Researcher
5. Contract title: **Fitoesteroides, propiedades biológicas y funcionales en alimentos**
Funding agency/company: Unilever España S.A. (Instituto Flora). Contrato art. 11 LRU.
Amount: 34.800,00 € Duration, from: 01/01/2004 to: 31/12/2005
PI: Andreu Palou Oliver & Catalina Picó Segura
Type of participation: Researcher
6. Contract title: **Estudio sobre el ácido linoleico conjugado (CLA) y relacionados**
Funding agency/company: Quality and Health Mallorca, SL. Contrato art. 11 LRU.
Amount: 8.120,00€ Duration, from: 01/01/2004 to: 31/12/2005
Type of participation: IP

C.4. Others

- Participation in evaluation tasks: Reviewer of research projects of the "Food and Nutrition Call 2012" of the Vienna Science and Technology Fund; and Reviewer of research papers/articles in the journals: Mol Nutr Food Res, Int J Biochem Cell Biol, Cells, Br J Nutr and Eur J Nutr.
- Memberships of scientific societies: Member (since 2001) of the Spanish Society for the Study of Obesity, Member (since 2005) and Coordinator (since 2015) of the Group of Biochemistry of Nutrition of the Spanish Society of Biochemistry and Molecular Biology.
- Awards: I ROCHE Award (2003) for Basic Research in Obesity, Spanish Society for the Study of Obesity; Poster Award NuGO (European Nutrigenomics Organization) Week 2004 for Excellence in Science Communication and Award for best oral communication at the first congress of the Spanish Federation of Societies of Nutrition, Food and Dietetics (2005); and Award for the best business plan "II Concurs d'emprenedors universitaris 2010", University-Enterprise of the Balearic Islands Foundation.