

**Part A. PERSONAL INFORMATION****CV date** 15/10/2020

First and Family name	Maria Concepció Amat Miralles		
Social Security, Passport, ID number	40429228N	Age	60
Researcher codes	WoS Researcher ID (*)	Y-6935-2018	
	SCOPUS Author ID(*)		
	Open Researcher and Contributor ID (ORCID) **	0000-0001-5874-0544	

(*) At least one of these is mandatory

(**) Mandatory

A.1. Current position

Name of University/Institution	UNIVERSITAT DE BARCELONA / FACULTY OF FARMACY AND FOOD SCIENCE		
Department	BIOCHEMISTRY AND PHYSIOLOGY		
Address and Country	AV JOAN XXIII, 27-31		
Phone number	934024505	E-mail	camat@ub.edu
Current position	Associate professor	From	1992
Key words			

A.2. Education

Master in Quality Management and Evaluation in Higher Education	Universitat Oberta de Catalunya	2019
PhD in Pharmacy	Universitat de Barcelona	1991
Bachelor in Pharmacy	Universitat de Barcelona	1984
Bachelor in Biology	Universitat de Barcelona	1981

A.3. General quality indicators of scientific production**Based on Scopus H-Index** 12, 26 documents**Based on ISI WEB Scopus H-Index:** 10 (Total citations 327)**Part B. CV SUMMARY**

I belong to the research group of Digestive Physiology and Nutritional Adaptations (FIDAN, IP: M. Moretó), integrated into the consolidated group of the Generalitat de Catalunya of Physiology and Experimental Nutrition (2017SGR0945, IP: J.M. Planas). Throughout my research career I have been working on nutrient absorption as well as barrier and defence functions of the intestinal wall. Currently I carry out studies in animal models of obesity to test the effect of dietary supplements on different physiological variables.

Also, I have collaborated on the intestinal immune system projects to study how dietary supplements can modulate its activation to reduce mucosal inflammation. Moreover, I am participating in the study of cognitive impairment associated to senescence and how it could be modulated by dietary supplementation with plasma proteins, in collaboration with the Neuropharmacology and Aging Team of the Department of Pharmacology, Toxicology and Therapeutic Chemistry (UB, IP: Dra. Mercè Pallàs).

Since 2000 I lead the teaching innovation group: Methodological Alternatives in Physiology and Pathophysiology, accredited by the UB. Since 2004 I have carried out an intense management activity; as head of studies of the degree and the degree of Pharmacy (period 2004-2012) and in the degree of Human Nutrition and Dietetics (period 2015-2017). Since

2018 I have been part of the team of the Postgraduate Agency of the University of Barcelona as responsible for innovation and quality.

I have participated as a researcher in 27 research projects, 14 of which competitive, and in 21 teaching innovation projects. As a result of my activity in teaching innovation and academic management, in 2016 I was awarded with the distinction of the teaching quality of the Social Council of the University of Barcelona and the distinction Jaume Vicens Vives 2016 for the teaching quality of the Government of the Generalitat de Catalunya.

Part C. RELEVANT MERITS

C.1. Publications

C1.1 Miró L, Amat C, Rosell-Cardona C, Campbell JM, Polo J, Pérez-Bosque A, Moretó M. Dietary supplementation with spray-dried porcine plasma attenuates colon inflammation in a genetic mouse model of inflammatory bowel disease. *Int J Mol Sci*, 21(18): E6760, 2020, <https://doi.org/10.3390/ijms21186760>

C1.2 Moretó M, Miró L, Amat C, Polo J, Manichanh C, Pérez-Bosque A. Dietary supplementation with spray-dried porcine plasma has prebiotic effects on gut microbiota in mice. *Sci Rep*, 10(1): 2926, 2020, <https://doi.org/10.1038/s41598-020-59756-z>

C1.3 Garcia-Just A, Miró L, Pérez-Bosque A, Amat C, Polo J, Pallàs M, Griñán-Ferré C, Moretó M. Dietary Spray-Dried Porcine Plasma Prevents Cognitive Decline in Senescent Mice and Reduces Neuroinflammation and Oxidative Stress. *The Journal of Nutrition*, nxz239, 2019. <https://doi.org/10.1093/jn/nxz239> **Index (2018): 4,416 (15/86; Q1)**

C1.4 Miró L, Garcia-Just A, Amat C, Polo J, Moretó M, Pérez-Bosque A. Dietary animal plasma proteins improve the intestinal immune response in senescent mice. *Nutrients*, 9: E1346, 2017. <https://doi.org/10.3390/nu9121346>. **Index: 4,196 (18/83; Q1)**

C1.5 Pérez-Bosque A, Miró L, Amat C, Polo J, Moretó M. Anti-Inflammatory effect of spray-dried Plasma is mediated by a reduction in mucosal lymphocyte activation and infiltration in a mouse model of intestinal inflammation. *Nutrients*, 8: E657, 2016. <https://doi.org/10.3390/nu8100657>. **Index: 3,759 (16/80; Q1)**

C1.6 Urpí-Sardà M, Illà M, Torrado X, Lizarraga MA, Andrés-Lacueva C, Farrán-Codina A, Llorach R, Amat C. Development and implementation of e-portfolios for students in nutrition and dietetics degree during their practicum. *EDULEARN16 Proceedings. IATED Digital Library*. pp.5323-5329, 2016. ISBN 978-84-608-8860-4.

C1.7 Miró L, Pérez-Bosque A, Maijó M, Amat C, Naftalin RJ, Moretó M. Aldosterone induces myofibroblast EGF secretion to regulate epithelial colonic permeability. *American Journal of Physiology-Cell Physiology*. American Physiological Society. 304-309, 2013. ISSN 0363-6143. **Index: 3,674 (17/81; Q1)**

C.2. Participation in R&D and Innovation projects

C.2.1. Title: Desarrollo de una nueva gama de pienso de iniciación de pollos a partir del estudio en profundidad del efecto del plasma atomizado.

Funding administration: Centro para el Desarrollo Tecnológico Industrial (CDTI), APC Europe, S.L.U., Nutreco

Ref: IDI-20180886. **Funds:** 1.228.465,00 €, **Duration:** 2018-2021 **PI:** Javier Polo

C.2.2. Title: Grup de Fisiologia I Nutrició Experimental (FINEX)

Funding administration: Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR)

Ref. 2017SGR0945 **Duration:** 2017-2020 **PI:** Juana Maria Planas Rosselló

C.2.3. Title: Estudio de la relación entre migraña e intolerancia a la histamina de la dieta. Potencial de algunos probióticos en su prevención y tratamiento

Funding administration: Fundación Mapfre

Ref: 35029829 **Funds:** 15.000,00 € **Duration:** 2013-2013. **PI:** M. Carmen Vidal

C.3. Contracts

C.3.1.Title: Mechanism of Action of SDP: Co-culture of epithelial and immune cells experiments

Ref: FBG-309202

Company: APC-EUROPE, S.A. **Funds:** 43.900,00 € **Duration:** 2017-2018 **PI:** Anna Pérez, Miquel Moretó and Lluïsa Miró

C.3.2.Title: Effects of SDP on gene expression in the SEB-mouse model

Ref: FBG- 309169

Company: APC-EUROPE, S.A. **Funds:** 11.800,00 € **Duration:** 2017-2018 **PI:** Anna Pérez, Miquel Moretó and Lluïsa Miró

C.3.3.Title: Effects of SDP in preventing deterioration of cognitive functions in senescence

Ref: FBG-308134

Company: APC-EUROPE, S.A. **Funds:** 58.700,00€ **Duration:** 2015-2016 **PI:** Miquel Moretó

C.3.4.Title: Lipids Setup

Ref: FBG-308133

Company: APC-EUROPE, S.A. **Funds:** 12.600,00€ **Duration:** 2015-2016 **PI:** Concepció Amat

C.4. Institutional responsibilities

C.4.1. Director of the Pharmacy degree at the Faculty of Pharmacy and Food Sciences, Universitat de Barcelona, from 2004 to 2012.

C.4.2. Director of the Human Nutrition and Dietetics degree at the Faculty of Pharmacy and Food Sciences, Universitat de Barcelona, from 2005 to 2017.

C.4.3. Coordinator of Innovation and quality at the Postgraduate Agency, Universitat de Barcelona, since 2018.