

Fecha del CVA	04/06/2025
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Parte A. DATOS PERSONALES

Nombre *	Maria		
Apellidos *	Herranz Lopez		
Sexo *	Mujer	Fecha de Nacimiento *	
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URL Web	https://idibe.es/es/about/herranz-lopez/		
Dirección Email	mherranz@umh.es		
Identificador científico	Open Researcher and Contributor ID (ORCID) *	0000-0002-1819-7978	
	Researcher ID		
	Scopus Author ID	57210089614	

* Obligatorio

A.1. Situación profesional actual

Puesto	profesor ayudante doctor		
Fecha inicio	2021		
Organismo / Institución	Universidad Miguel Hernández de Elche		
Departamento / Centro	Bioquímica y Biología Molecular / Instituto de Biología Molecular y Celular		
País		Teléfono	
Palabras clave	Biomedicina; Mecanismos moleculares de enfermedad; Biología celular; Obesidad		

A.3. Formación académica

Grado/Master/Tesis	Universidad / País	Año
Programa Oficial de Doctorado en Biología Molecular y Celular	Instituto de Biología Molecular y Celular	2014
Licenciada en Ciencia y Tecnología de los Alimentos	Universidad Miguel Hernández de Elche	2008
Diplomada en Nutrición Humana y Dietética	Universidad Católica San Antonio de Murcia	2006

Parte B. RESUMEN LIBRE DEL CURRÍCULUM

Scientific impact: Dr. María Herranz-López is a researcher of IDiBE at the UMH within the research group "Design and Development of Bioactive Molecules". Dr. Herranz has 2 of sixyear research periods (period 2007-2012 and 2013-2018). Total **number of publications in Scopus: 59** (Q1 percentage: 70%). **H-index (ISI-WEB, SCOPUS): 27**(Scopus Author ID: 57210089614). Total citations: 2204. Average citations/year (2019-2023): 242. Besides being a researcher of several projects of the national plan MINECO 2019-2024 (RTI2018-096724-B-C21, PID2021-125188OB-C32 and TED2021-129932B-C32; Total: 573.200 €), is PI of a PROMETEO for research groups of excellence (PROMETEO/2020/059/OBRAINSITY), whose funding amounts to 548.816 €. In this project. In addition, she is PI of a project in public-private collaboration of the State Plan for Scientific and Technical Research and Innovation (CPP2022-009795, 2023-2026) financed with a total of 1.168.067 €. She is also PI of a Project funded by the International Center for Aging Research (ICAR) on the Regulation of metabolic stress associated with aging through plant polyphenols, of the "Aid Program for Aging Research of the ICAR Foundation, 2023", with a total of 34.155 €. Moreover, she is PI in other regional projects in collaboration with the "Analytical Unit" IIS La Fe (AP2021-03 METOB), using omics techniques for the characterization of in vitro obesity models, and the research group "Molecular mechanisms underlying diabetes" of the Dr. Peset Hospital of FISABIO (ILISABIO22_AP12).

She is also reviewer at the State Research Agency-AEI since 2021. She has acted as a reviewer for more than 20 scientific journals.

International impact: Among others, the applicant maintains international collaborations with Prof. Catherine Riva and Prof. Agnes Vinet (Laboratoire de Pharm-Ecologie Cardiovasculaire. Université d'Avignon, France). There are several publications resulting from this collaboration, which has allowed the completion of a doctoral thesis with international mention (PhD Mariló Olivares Vicente, VALi+D of the GVA, with 9 months international stay), whose thesis director is Dr. Herranz. In addition with Dr. Pedro Mena Parreño (Dept. of Food and Drug, Università di Parma), for the assessment of food intake biomarkers. The applicant has started a collaboration, formalizing a project of internationalization at home (PRODUC-UMH), which seeks to promote

interdisciplinary collaboration (virtual exchange) between the students and the professor staff involved in in both Universities (Parma and UMH). Others relevant national collaborations are: Dr. Francesc Villarroya Gombau (Institute of Biomedicine of the University of Barcelona). This last collaboration has allowed also the training stay of the PhD student Irene Pomares Bri, whose thesis director is Dr. Herranz.

Clinical Translation: Recently, she has obtained a grant for the requalification of university teaching staff for a period of one year in the research group in Cardiovascular Pathology that belongs to the Institute of Health and Biomedical Research of Alicante (HGUA-ISABIAL). In addition, She is also PI of an OBECA project in collaboration with Dr. Javier Gallego, from the Medical Oncology Department of the Hospital General Universitario de Elche, where they are investigating the microenvironment of adipose tissue in obesity in the progression of colon tumours.

Socio-economic impact: Dr. Herranz has been working as a postdoctoral researcher in Mitra Sol Technologies, a spin-off company focused in R&D for functional ingredients. She has participated in many research projects and translational activities with different companies (Monteloeder, SL, Innovation Labo, SL and Invitrotecnia, SL). Author of 3 patents with references (see Espacenet). One of them: "Composition for controlling weight by modulating levels of peptides involved in fullness and/or appetite" Reference: 20170294/2026; P201731147. Company: Monteloeder/UMH. Filing Date: 25/09/2017; Priority date (granted): 25/10/18. US and International Patent. Clasification: US 2020/0268823 (PCT/ES2018/070600).

Training activities: Dr. Herranz has led more than 25 final degree works (TFG) and 12 Master final thesis (TFM). She has supervised 9 Doctoral Thesis. Since 2020, she is responsible for the subject "In vitro skin models for testing and evaluation" in the "European Master ERASMUS MUNDUS EMOTION" (<https://www.emotion-master.eu/lecturers/>). She also participates as a professor in the Doctoral Program Autonomous University of Santo Domingo specialized in Health, thus favoring the internationalization of her curriculum.

Other contributions: Excellence academically high-performing: Extraordinary Prize-winner upon graduation in the degree in Human Nutrition and Dietetics (UCAM, 2005/2006) and National Award-winner for Academic Excellence in Food Science and Technology (UMH, 2007/2008).

Parte C. MÉRITOS MÁS RELEVANTES

C.1. Publicaciones

AC: Autor de correspondencia; (nº x / nº y): posición firma solicitante / total autores. Si aplica, indique el número de citaciones

- Artículo científico.** María Herranz-López; Enrique Barraón-Catalán. 2020. Antioxidants and Skin Protection. Antioxidants. MDPI.
- Artículo científico.** María Herranz-López; Mariló Olivares-Vicente; Esther Rodríguez-Gallego; et al; Vicente Micol. 2020. Quercetin metabolites from Hibiscus sabdariffa contribute to alleviate glucolipotoxicity-induced metabolic stress in vitro. Food and Chemical Toxicology. Elsevier.

- 3 **Artículo científico.** Noelia Sanchez-Marzo; Almudena Perez-Sanchez; Verónica Ruiz; Adrian Martinez-Tébar; Julian Castillo; María Herranz-López; Enrique Barrajón-Catalán. 2019. Antioxidant and Photoprotective Activity of Apigenin and Its Potassium Salt Derivative in Human Keratinocytes and Absorption in Caco-2 Cell Monolayers. International Journal of Molecular Sciences. MDPI.
- 4 **Artículo científico.** María Herranz-López; Mariló Olivares-Vicente; Marina Boix-Castejón; Nuria Caturla; Enrique Roche; Vicente Micol. 2019. Differential effects of a combination of Hibiscus sabdariffa and Lippia citriodora polyphenols in overweight/obese subjects: A randomized controlled trial. Scientific Reports. Springer Nature Limited.
- 5 **Artículo científico.** David Montero; Nestor Vicente-Salar; María Herranz-López; Vicente Micol; Guillaume Walther; Antonia Pérez-Martín; Agnes Vinet; Enrique Roche. 2019. Glutathione-dependent enzyme activities of peripheral blood mononuclear cells decrease during the winter season compared with the summer in normal-weight and severely obese adolescents. Journal of Physiology and Biochemistry.
- 6 **Artículo científico.** Almudena Perez-Sanchez; Enrique Barrajón-Catalán; Verónica Ruiz; Luz Agulló-Chazarra; María Herranz-López; Alberto Valdés; Alejandro Cifuentes; Vicente Micol. 2019. Rosemary (Rosmarinus officinalis) extract causes ROS-induced necrotic cell death and inhibits tumor growth in vivo. Scientific Reports. Springer Nature Limited.
- 7 **Artículo científico.** M^a Luz Cádiz-Gurrea; Mariló Olivares-Vicente; María Herranz-López; David Román-Arrea; Salvador Fernández-arroyo; Vicente Micol; Antonio Segura-Carretero. 2018. Bioassay-guided purification of Lippia citriodora polyphenols with AMPK. Journal of Functional Foods. 46, pp.514-520.
- 8 **Artículo científico.** María Herranz-López; Marina Boix-Castejón; Alberto Pérez Gago; Mariló Olivares-Vicente; Nuria Caturla; Enrique Roche; Vicente Micol. 2018. Hibiscus and lemon verbena polyphenols modulate appetite-related biomarkers in overweight subjects: a randomized controlled trial. Food & Function. 9, pp.3173.

C.2. Congresos

- 1 A. Martin-Martinez; N. Sanchez-Marzo; D. Martinez-Casanova; M. Abarquero-Cerezo; M. Herranz-López; E. Barrajón Catalán; M. Matabuena Yzaguirre. High Global Antioxidant Potention (RMS) and stimulation of the Collagen Synthesis of New Anti-Age Product Containing an Optimized Active-Mix. IMCAS World Congress. IMCAS C/O Comexposium Healthcare. 2020. Francia.
- 2 Mariló Olivares-Vicente; Noelia Sanchez-Marzo; Jose Antonio Encinar; Vicente Micol; María Herranz-López. Polyphenols from Lippia citriodora as direct agonists of the master energy regulator AMPK with synergistic effects. 13th World Congress on Polyphenols Applications. International Society of Antioxidants in Nutrition and Health (ISANH). 2019. Malta. Participativo - Ponencia oral (comunicación oral). Congreso.
- 3 Mariló Olivares-Vicente; Enrique Roche; Vicente Micol; María Herranz-Lopez. Inhibition of glucolipotoxicity-induced metabolic stress by metabolites from Hibiscus sabdariffa on hypertrophied 3T3-L1 adipocytes. 16th Conference on Trans-Pyrenean Investigations in Obesity and Diabetes. Universidad de Valladolid y Consorcio Trans-Pirenaico de Investigaciones en Obesidad y Diabetes. 2019. España. Participativo - Ponencia oral (comunicación oral). Congreso.

C.3. Proyectos y Contratos

- 1 **Proyecto.** Una innovadora aproximación metabonómica inductiva para la identificación de metabolitos derivados de polifenoles de la dieta y sus dianas moleculares (RTI2018-096724-B-C21).. MINISTERIO DE EDUCACION Y CIENCIA. Vicente Micol Molina. (Universidad Miguel Hernández de Elche). 01/01/2019-31/12/2021. 145.200 €.
- 2 **Proyecto.** Determinación de las concentraciones plasmáticas de mefloquina y sus efectos clínicos en pacientes incluidos en el ensayo MEFLOCOVID19 contra COVID19.. FUNDACION PARA EL FOMENTO DE LA INVESTIGACION SANITARIA Y BIOMEDICA EN LA COMUNITAT VALENCIANA. Enrique Barrajón-Catalán. (Universidad Miguel Hernández de Elche). Desde 2021. 5.000 €.

- 3 Contrato.** Contrato para la realización del trabajo "Caracterización e identificación de la microflora endofítica predominante en especies vegetales mediterráneas" Innovation Labo S.L.. 07/12/2020-07/12/2022. 7.749 €.
- 4 Contrato.** Contrato para la realización del trabajo "Caracterización de la composición y determinación de bioactividad en muestras del sector biosanitario" Ilice Effitech S.L.. Vicente Micol Molina. 19/05/2020-19/05/2022. 2.850 €.

C.4. Actividades de transferencia y explotación de resultados

- 1** ES20170000646 20170620. Obtención y purificación de carotenoides a partir de subproductos de la industrialización del caqui España. 20/12/2018. Mitra Sol. Technologies S.L.. MITRA SOLUTIONS SL.
- 2** María Herranz Lopez; Enrique Roche Collado; Vicent Micol Molina; Jonathan Richard Jones Barberá; Nuria Caturla Cernuda; Ana Peral Clement. ES20180030426 20180430. Composición de extractos vegetales con flavonoides para paliar los múltiples efectos de la contaminación del aire sobre la piel España. 08/11/2018. MONTELOEDER; S.L.. MONTELOEDER; S.L.
- 3** Maria Herranz Lopez; Enrique Roche Collado; Vicente Micol Molina; Jonathan Richard Jones Barberá; Nuria Caturla Cernuda. ES20170031147 20170925. Composición para el control del peso a través de la modulación de los niveles de péptidos involucrados en saciedad y/o apetito. España. 18/10/2018. MONTELOEDER; S.L.. MONTELOEDER; S.L.

C.5. Estancias en centros de I+D+i públicos o privados

- 1** Universitat Rovira i Virgili. Centre de Recerca Biomédica. Reus. 15/06/2018-14/06/2019. 1 año. Posdoctoral.
- 2** MITRA SOL. TECHNOLOGIES S.L.. 01/09/2016-15/09/2017. 1 año. Posdoctoral.