



CURRICULUM VITAE (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

Part A. PERSONAL INFORMATION

CV date	18/01/2023
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First name	ANTONIO		
Family name	GONZÁLEZ		
Gender (*)	MALE	Birth date (dd/mm/yyyy)	08/05/1969
Social Security, Passport, ID number	11774048A		
e-mail	agmateos@unex.es	URL Web	
Open Researcher and Contributor ID (ORCID) (*)	0000-0001-8380-0270		

(*) Mandatory

A.1. Current position

Position	Full Professor in Physiology		
Initial date	25/06/2019		
Institution	University of Extremadura / Institute of Molecular Pathology Biomarkers		
Department/Center	Department of Physiology	Faculty of Veterinary Sciences	
Country	Spain	Teleph. number	+34 927251377
Key words	Brain; Pancreas; Oxidative stress; Melatonin; Cancer; Fibrosis; Extracellular vesicles; Exosomes; Neurodegenerative diseases		

A.2. Previous positions (research activity interruptions, art. 14.2.b)

Period	Position/Institution/Country/Interruption cause
1/1/93-31/12/96	Research Fellow/Dr. Thesis/Univ. Extremadura/Spain
1/1/97-31/12/98	Research Fellow/Postdoctoral/Univ. Saarland-Germany
1/1/99-30/09/99	Research Assistant/Postdoctoral/Univ. Saarland-Germany
29/10/99-28/10/2001	Research fellow/Return grant/Univ. Extremadura/Spain
29/11/2001-24/06/2019	Lecturer in Physiology/ Univ. Extremadura/Spain

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
<i>Degree in Veterinary Medicine</i>	<i>Extremadura</i>	1992
<i>PhD in Physiology</i>	<i>Extremadura</i>	1996

Part B. CV SUMMARY

My scientific activity can be followed in ResearchGate https://www.researchgate.net/profile/Antonio_Gonzalez2 (Score: 36,64). h-index: 23 (Scopus; RG). Degree in Veterinary Medicine (1992) and Doctoral Degree in 1996 at the University of Extremadura. Distinguished student (honor award) 1992, Extraordinary Prize of Degree (honor award) 1993, Extraordinary Prize of Doctorate (honor award) 1996. Research fellow in 1993-1996 (Spanish Ministry of Education-Doctoral training). Languages: Spanish, English (fluent), German (level G III DAAD), Italian (ground level). Stays in research centers: School of Applied Biology-Central Lancashire (UK, 1993), Medical School- Newcastle Upon Tyne (UK, 1994), and Physiology Institute II (Homburg/Saar, Germany, postdoctoral 1997-1999). At the present I have a Professorship in Physiology, full position in the Department of Physiology of the



University of Extremadura, in Cáceres (Spain). Vice-Dean for Academic Management at the Faculty of Veterinary of the University of Extremadura (June 2004-January 2021). Since March 2018, I am Coordinator of the Research Group Biology and Cellular Communication” (CTS051). I have received positive evaluation for 4 research periods (CNEAI; last granted in 2016) and 3 autonomic periods (last in 2019). I have participated in 37 research projects (P.I. in 18 of them). During the last 14 years my research has been focused onto the study of the effects of melatonin on pancreatic physiology (research developed under three funded projects, PRI08-A018; BFU2016-79259-R; IB16006, for which I am P.I.). The results signal important effects of melatonin on the regulation of pancreatic physiology and as protector against fibrosis and pancreatic cancer. I have supervised three Doctoral Thesis and 49 students in their research projects (Final Projects of Carrier, Final Master Projects, etc). Our results have been presented in Scientific Congresses (national and international). We keep contact with both national research groups (Prof. J.P. Bolaños - Institute of Functional and Genomic Biology, Univ. Salamanca-, Dr. A. Martínez Ruiz -Institute of Health Research Princesa, Madrid-, Prof. J. García Sancho -Institute of Biology and Molecular Genetics. Valladolid- or Prof. MA Nadal -Institute of Bioengineering, UMH, Alicante-) and European groups (Prof. Alexei Tepikin -Institute of Translational Medicine, The University of Liverpool, UK--), Prof. J. Iovanna -Center de Recherche en Cancerologie, Marseille, France- or Prof. Ralf Dringen - Center for Biomolecular Interactions Bremen, Germany). I have been Director of several scientific meetings for students: Congress for Veterinary and Health Science Students (editions in 2011, 2013, 2015, 2017 and 2019). I am Director of Training Courses for animal users in Biomedical Sciences since 2013 (annual calls; continues at present). I have been director of Collaboration Grants awarded to undergraduate students (four) that developed their research projects under my direct supervision. At present, I am director of an AECC’s predoctoral grant 2022 and a Valhondo Calaff’s Foundation predoctoral Grant (2021). The results that we obtain and the scientific methods we apply are used in the lectures given within the Doctoral Program (R.D. 99/2011) entitled “Biomarcadores de Salud y Estados Patológicos” (Code R012), ascribed to the International Post-graduate School at the University of Extremadura. I communicated our findings broadly to the society in the events “Science from home” (April 2020; <https://n9.cl/hzipy>; more than 3400 visits) and “IV Science Week” (Nov. 2020; <https://n9.cl/bsik1>). I take active part of scientific Societies: Spanish Society of Physiological Sciences (Treasurer); Mitochondria Interest Group; The Science Advisory Board; European Society of Neurochemistry; International Society of Neurochemistry; The Pancreapedia-The Exocrine Pancreas Knowledge Base. I am also included in panels as referee of research agencies: Agencia Nacional de Promoción Científica y Tecnológica del Ministerio de Ciencia, Tecnología e Innovación Productiva de Argentina (FONCyT-ANPCyT), since 2016; Agencia Nacional de Evaluación y Prospectiva (ANEP), since 2018; Comisiones de Evaluación de la AES (ISCIII) since 2022; External evaluator for the Instituto Extremeño de las Cualificaciones y Acreditaciones-Ministerio de Educación y Formación Profesional (2019). I take part of the Editorial Committees for several Scientific Journals: Journal of Physiology and Biochemistry (Executive Editor); Frontiers in Cell and Developmental Biology-Section Membrane Physiology and Membrane Biophysics (Reviewer board); International Journal of Molecular Sciences. Guest Editor; The Open Clinical Chemistry Journal (Board Member until 2015); Insight–Biochemistry (Editorial Board); PsicoMed Publishing Pte. Ltd.; Singapore SRL Gastroenterology & Hepatology (Editorial Team). Finally, I am also reviewer for more than 100 Scientific Journals (international).

Part C. RELEVANT MERITS

C.1. Publications

-Estaras M; et al. (17/17). 2022. Melatonin controls cell proliferation and modulates mitochondrial physiology in pancreatic stellate cells. J Physiol Biochem. Nov 5. ISSN: 1877-8755. **Q1. I.F.: 5.080.**

-Estaras M; et al. (7/7). 2022. Melatonin modulates metabolic adaptation of pancreatic stellate cells subjected to hypoxia. Biochem Pharmacol, 202:115118. ISSN: 0006-2952. **Q1. I.F.:5.858.**

-Estaras M; et al. (11/11). 2021. Melatonin Induces Apoptosis and Modulates Cyclin Expression and MAPK Phosphorylation in Pancreatic Stellate Cells Subjected to Hypoxia. Int J Mol Sci. 24;22(11):5555. ISSN: 1422-0067. **Q1. I.F.: 5.923.**



- Estaras M; et al. (13/13). 2021. Melatonin Modulates the Antioxidant Defenses and the Expression of Proinflammatory Mediators in Pancreatic Stellate Cells Subjected to Hypoxia. *Antioxidants (Basel)*. Apr 8;10(4):577. ISSN 2076-3921. **Q1. I.F.: 6.312.**
- Estaras M; et al. (5/5). 2020. The lysine derivative amino adipic acid, a biomarker of protein oxidation and diabetes-risk, induces production of reactive oxygen species and impairs trypsin secretion in mouse pancreatic acinar cells. *Food Chem Toxicol*. Jul 30;145:111594. ISSN: 0278-6915. **Q1. I.F.: 4.6.**
- Díaz-Velasco S; et al. (4/2). 2020. Noxious effects of selected food-occurring oxidized amino acids on differentiated CACO-2 intestinal human cells. *Food Chem Toxicol*. Oct;144:111650. ISSN: 0278-6915. **Q1. I.F.: 4.6.**
- Estaras M; et al. (15/15). 2020. Pancreatic stellate cells exhibit adaptation to oxidative stress evoked by hypoxia. *Biol Cell*. Jul 6. 112, 280-299. ISSN: 0248-4900. **Q2. I.F.: 3.506.**
- Gonzalez A**; et al. (18/1). 2020. Melatonin modulates red-ox state and decreases viability of rat pancreatic stellate cells. *Sci Rep*. Apr 14;10(1):6352. ISSN: 2045-2322. **Q1. I.F.: 3.998.**
- Estaras M; et al. (9/9). 2019. The melatonin receptor antagonist luzindole induces Ca²⁺ mobilization, reactive oxygen species generation and impairs trypsin secretion in mouse pancreatic acinar cells. *Biochim Biophys Acta Gen Subj*. Nov;1863(11):129407. ISSN: 0304-4165. **Q2. I.F.: 3.422.**
- Santofimia-Castaño P; et al. (11/8). 2018. Inactivation of NUPR1 promotes cell death by coupling ER-stress responses with necrosis. *Sci Rep*. Nov 19;8(1):16999. ISSN: 2045-2322. **Q1. I.F.: 3.998.**
- Ameur FZ; et al. (6/6). 2018. Sulfanilic acid increases intracellular free-calcium concentration, induces reactive oxygen species production and impairs trypsin secretion in pancreatic AR42J cells. *Food Chem Toxicol*. Jul 3;120:71-80. ISSN: 0278-6915. **Q1. I.F.: 3.977.**
- Santofimia-Castaño P; et al. (8/8). 2016. Ebselen alters cellular oxidative status and induces endoplasmic reticulum stress in rat hippocampal astrocytes. *Toxicology* 357: 74-84. ISSN: 0300-483X. **Q1. IF: 3.582.**
- Santofimia-Castaño P; et al. (8/8). 2015. Melatonin induces the expression of Nrf2-regulated antioxidant enzymes via PKC and Ca²⁺ influx activation in mouse pancreatic acinar cells. *Free Radical Biology & Medicine* 87:226-236. ISSN: 0891-5849. **Q1. IF: 5.736.**
- Jimenez-Blasco D; et al. (5/3). 2015. Astrocyte NMDA receptors activity sustains neuronal survival through a Cdk5-Nrf2 pathway. *Cell Death and Differentiation* 22:1877-1889. ISSN: 1476-5403. **Q1. IF: 8.38.**
- Gonzalez A**; et al. (5/1). 2011. Melatonin reduces pancreatic tumor cell viability by altering mitochondrial physiology. *Journal of Pineal Research* (2011), 50 (3), 250-260. ISSN: 1600-079X **Q1. IF: 5.79.**
- Castillo-Vaquero A; et al. (3/3). 2010. Melatonin induces calcium release from CCK-8- and thapsigargin-sensitive cytosolic stores in pancreatic AR42J cells. *Journal of Pineal Research*, 49 (3), 256-263. ISSN: 1600-079X. **Q1. IF: 5.86.**

C.2. Congresses

- 110 panels (oral and poster) in National and International Meetings.
- Invited talk: "The use of primary cultures of pancreatic cells for the study of the initial stages of pancreatic pathologies". Presented in the XII Meeting of the Spanish Pancreatic Club (Alicante, Spain, 14-15 Oct. 2011).
- Scientific Committee in the I International Congress of Education in Animal Sciences (ICEAS). 7th June 2019. Évora (Portugal).
- Invited talk: "Melatonin: a resident ally in health and disease". 56th Annual Congress of the Brazilian Society of Physiology SBFIS (celebrated OnLine, 12-15 Oct. 2021) within Seminar 1 Physiology & Lifestyle.
- Organizer and Scientific Committee: XL CONGRESS OF THE SPANISH SOCIETY OF PHYSIOLOGICAL SCIENCES (Joint meeting between Spanish and Portuguese physiologists). 19-22 September 2022. Badajoz (Spain).

C.3. Research projects

- Title: NUEVAS INSTALACIONES SPF Y ADECUACIÓN DE LA NORMATIVA VIGENTE DEL ANIMALARIO DEL CAMPUS DE BADAJOZ ED LA UNIVERSIDAD DE EXTREMADURA. Funding source: AGENCIA ESTATAL DE INVESTIGACIÓN (EQC2021-007762-P). From



- 31/12/2021 to 31/12/2023. FEDER. Awarded: 1.159.249,23 €. PI: Eduardo Ortega Rincón. Number of researchers: 6.
- Title: SISTEMA DE ANÁLISIS DE MICROSCOPIA CONFOCAL DE ALTA RESOLUCIÓN. Funding source: EQC2019 Adquisición Equipamiento C-T (PLAN ESTATAL I+D+I 2017-2020) (EQC2019-005660-P). 2019-2021. FEDER. Awarded: 591.599,00 €. **PI: Dr. Antonio González.** Number of researchers: 24.
- Title: CITOMETRÍA DE FLUJO MULTIPARAMÉTRICA 5 LÁSERES CON HUELLA ESPECTRAL. Funding source: EQC2019 Adquisición Equipamiento C-T (PLAN ESTATAL I+D+I 2017-2020) (EQC2019-005393-P). Year 2019. FEDER: 350.000,00 €. PI: Dr. Fernando J. Peña. Number of researchers: 12.
- Title: Estación de detección para amplio espectro de biomarcadores. Funding source: EQC2018-P Adquisición Equipamiento C-T. (Plan estatal I+D+I 2017-2020) (EQC2018-004646-P). Year 2018. Cuantía de la subvención (FEDER). Awarded: 115.924,00 €. **PI: Dr. D. Antonio González.** Number of researchers: 52.
- Title: Caracterización de los efectos de la melatonina sobre la fisiología de las células estrelladas del páncreas: un estudio de fibrosis pancreática. Funding Source: Ministerio de Economía y Competitividad (BFU2016-79259-R). From 30/12/2016 to 31/12/2020. (FEDER). Awarded: 133.100,00 €. **PI: Dr. Antonio González.** Number of researchers: 6.
- Title: "Implicación de las células estrelladas del páncreas en las patologías que afectan a la glándula. Efectos de la melatonina". Funding Source: Consejería de Economía e Infraestructuras–Comunidad Autónoma de Extremadura (IB16006). From 03/06/2017 to 30/11/2020. (FEDER). Awarded: 132972,40 €. **PI: Dr. Antonio González.** Number of researchers: 6.
- Title: Actualización de sistema de análisis de imagen FICEL. Funding Source: Ministerio de Economía y Competitividad (UNEX13-1E-1608). 2015. (FEDER). Awarded: 21296 €. **PI: Dr. Antonio González.** Number of researchers: 22
- Title: Estudio de las acciones de los antioxidantes naturales en los elementos de respuesta frente al estrés oxidativo y su papel en la proliferación celular en el sistema nervioso central Funding Source: Regional Plan of Research (PRIS10014). 2011. Awarded: 21100 €. **PI: Dr. Antonio González.** Number of researchers: 3
- Title: "Estudio de las acciones de los antioxidantes naturales frente a la carcinogénesis pancreática". Funding Source: Consejería de Economía, Comercio e Innovación – Junta de Extremadura (PRI08-A018). From 2008 to 2011. Awarded: 24959 €. **PI: Dr. Antonio González.** Number of researchers: 3