



CURRICULUM VITAE

Alcorcón, March 7th 2026

NAME (family, first): ABALO DELGADO, Raquel

NATIONALITY: Spanish

CURRENT ADDRESS:

Area of Pharmacology and Nutrition, Dept. of Basic Health Sciences. Fac. of Health Sciences, Universidad Rey Juan Carlos (URJC), 28922 Alcorcón, Madrid (SPAIN).

Phone: 34-91-488 88 54. **Fax:** 34-91-488 89 55. **E-mail:** raquel.abalo@urjc.es

ACADEMIC EDUCATION:

- June 1995: Bachelor in Biological Sciences, Universidad Complutense (Madrid)
- July 2000: PhD in Biological Sciences, Universidad Complutense (Madrid)
- September 2010-June 2014: 3 first courses of the Degree in Medicine, URJC (Madrid)

LANGUAGES:

- Spanish: mother tongue
- English: proficient
- Italian: proficient
- German: basic

SCHOLARSHIPS:

- 1994, Collaboration Scholarship from Ministerio de Educación y Ciencia. Spain.
- 1996-99, Predoctoral Scholarship from Ministerio de Educación y Ciencia. Spain.

POSITIONS:

- 2000-2001: Profesora Ayudante, URJC (Madrid)
- 2002-2004: Profesora Asociada, URJC (Madrid)
- 2004-2011: Profesora Contratada Doctora, URJC (Madrid)
- 2011-2017: Profesora Titular de Farmacología (Associate Professor of Pharmacology), URJC (Madrid)
- December 2017- : Full Professor of Pharmacology, URJC (Madrid)
- 2018-2023: Functional Coordinator of the Area of Pharmacology and Nutrition, Dept. of Basic Health Sciences, Fac. Health Sciences, URJC (Madrid)
- 2020-: Coordinator of the High-Performance Research Group on Physiopathology and Pharmacology of the Digestive System (NeuGut-URJC).
- October 2021-: Coordinator of the PhD Program of Health Sciences, URJC (Madrid)
- May 2025-: Academic Codirector of the Master's Degree in Biomedical Research, URJC (Madrid)

RESEARCH EXPERIENCE (summary, 7-3-26):

- Included in the **Annual World Top 2%** list of researchers (**Stanford University, 19-9-2025**), <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/8>

- **WOS:** H index 31; 2957 cites (2474 without autocites); 427,6 cites/year in the last 5 years (2020-24)
- **Google Scholar:** H index 35; i10 index 68; 4400 cites, 660,2 cites/year in the last 5 years (2020-24)
- According to **Expertscape**, among the top 0.19% of Experts in Pain, position 18 of the Spanish experts in this topic (<https://expertscape.com/au/pain/Abalo%2C+R>).
- **4 research periods (sexenios):** last one, 2017-2022.

RESEARCH AT FOREIGN CENTRES:

- 1/6/96-21/6/96: Honorary Research Student at Dr Lees' laboratory, Department of Biomedical Sciences, Marischal College, Aberdeen (UK). "Intracellular recording from myenteric neurones". Grant from Ministerio de Educación y Ciencia (Spain) and British Council (Madrid, Spain).
- Dr Costa and Brookes' Laboratory, Dept. of Human Physiology, Faculty of Medicine, Flinders University of South Australia (Adelaide, Australia):
 - 10/9/98-2/12/98: "Intracellular recording from myenteric neurones"
 - 27/5/99-18/8/99: "Intracellular recording from myenteric neurones, functional correlation with peristalsis"
 - 26/5/03-22/8/03: "Anterograde labelling of extrinsic afferents specialised in perception of tension and pain in the rat and mouse large intestines"
 - 1/7/13-13/9/13: "Analysis of the rat intestinal motility patterns using spatio-temporal maps"
 - 1/7/17-30/9/17: "Analysis of the rat intestinal motility patterns using spatio-temporal maps" (CONTINUATION)

PROJECTS:

Participation in more than 30 research projects and 16 contracts (responsible for the research line in Physiopathology and Pharmacology of the Digestive System in all of them).

Recent research projects and contracts:

- *Chemotherapy-induced brain-gut axis disorders: involvement of the endocannabinoid system (ECSCemoBGA)*. Project "PUENTE" at URJC. January-December 2026. PI: **Raquel Abalo**, José A. Uranga.
- *Chemotherapy-induced brain-gut axis disorders: in search of a solution based on mesenchymal stem cells (MSC4ChemoBGA)*. Project "PUENTE" at URJC. January-December 2025. PI: **Raquel Abalo**, José A. Uranga.
- *New strategies for colorectal cancer treatment based on extracellular vesicles from mesenchymal stem cells (NEVECAN)*. Project "IMPULSO" to Young PhD research at URJC. January-December 2025. PI: Lorena Ortega Moreno & Laura López Gómez.
- *New beverages of coffee byproducts for an optimal health of the brain-gut axis*. Ministry of Science and Universities (PID2019-111510RB-I00). June 2020-May 2024. PI: M^a Dolores del Castillo Bilbao, **Raquel Abalo**.
- *Can gestational stress cause irritable bowel syndrome in the offspring? Preclinical study*. Project "IMPULSO" to Young PhD research at URJC. January 2023-December 2023. PI: Gema Vera Pasamontes.
- *Alterations of colonic motility associated with antitumoral chemotherapy. Neurotoxicity and role of the endogenous cannabinoid system*. Grant by the Spanish Association of Gastroenterology. June 2021-December 2023. PI: **Raquel Abalo**.
- *Machine Learning on Single Cell Multi-omics to relate COVID-19, Aging and Cardiopathies: Mechanisms and Validation of Preclinical Model (SC-LEARNING-CM)*. REACT-CAM-EU. URJC. Line Infrastructures. January 2020-December 2022. PI: Sergio

Muñoz Romero, José Luis Rojo Álvarez.

- *Machine Learning on Single Cell Multi-omics to relate COVID-19, Aging and Cardiopathies: Mechanisms and Validation of Preclinical Model (SC-LEARNING-CM)*. REACT-CAM-EU. URJC. Line R+D Projects. January 2020-December 2022. PI: Sergio Muñoz Romero, José Luis Rojo Álvarez.

Principal investigator of the following research projects:

- *Chemotherapy-induced brain-gut axis disorders: involvement of the endocannabinoid system (ECSCemoBGA)*. Project “PUENTE” at URJC. January-December 2026. PI: **Raquel Abalo**, José A. Uranga.
- *Chemotherapy-induced brain-gut axis disorders: in search of a solution based on mesenchymal stem cells (MSC4ChemoBGA)*. “BRIDGE” Project at URJC. January-December 2025. PI: **Raquel Abalo**, José A. Uranga.
- *New beverages of coffee byproducts for an optimal health of the brain-gut axis*. Ministry of Science and Universities (PID2019-111510RB-I00). June 2020-May 2024. PI: M^a Dolores del Castillo Bilbao, **Raquel Abalo**.
- *Alterations of colonic motility associated with antitumoral chemotherapy. Neurotoxicity and role of the endogenous cannabinoid system*. Grant by the Spanish Association of Gastroenterology. June 2021-December 2022. PI: **Raquel Abalo**.
- *N-acetylcysteyne against severe COVID-19 and its sequelae: study in a preclinical model of pseudoinfection and sepsis (NACfightsCOVID-19)*. Projects COVID-19 URJC–BANCO SANTANDER. January 2021-June 2022. PI: **Raquel Abalo**.
- *Functional characterization of a new preclinical model of irritable bowel syndrome with constipation*. ALLERGAN-Grupo Español de Motilidad Digestiva. May 2017-November 2018. PI: **Raquel Abalo**.
- *Monosodium glutamate: “umami” flavour allied in anticancer therapy*. MAPFRE Foundation. Research grants 2011 (Health Promotion: Food and Exercise). March 2012-February 2013. PI: **Raquel Abalo**.
- *Resveratrol, an essential nutraceutical in the mediterranean diet, against the metabolic syndrome and its complications*. MAPFRE Foundation. Research grants 2009 (Health Promotion: Food and Exercise). March 2010-February 2011. PI: **Raquel Abalo**.
- *Lights and shadows of cannabinoid therapy: Secondary effects in peripheral nervous system, gastrointestinal tract and cardiovascular system*. URJC-CM-2006-BIO-0604. January-December 2007. PI: **Raquel Abalo**.

PATENTS:

Inventors: **Abalo R**, Sanz-Montemayor A, Pantrigo JJ, Ramírez I. Devise for analysis of intestinal motility (P201531687), filed in 20th November 2015.

COLLABORATIONS:

- **Dr Nurgali** (Victoria University, Melbourne, Australia) and **Dr Joel Bornstein** (Melbourne University, Melbourne, Australia). Study of the alterations induced by different chemotherapeutic drugs on mice gastrointestinal motility. 2 visits to their laboratories, 1 talk at each of their departments; 8 original articles published, 7 reviews published, 2 manuscripts under review, 2 Frontiers Research Topic (FRT) co-edited with Dr Nurgali, including editorial and e-book (1 in collaboration also with **Dr. Jagoe**, McGill University, Canada; 1 in collaboration also with **Dr. Was** from the Military Institute of Medicine, Warsaw, Poland, and **Dr. Rudd**, University of Hong-Kong, China).
- **Dr. Fichna** (Medical University of Lodz, Poland). Study of the gastrointestinal effects of different diets. 1 visit to his laboratory (18th-22nd May 2017), 1 visit of a predoctoral student and 1 visit of a postdoctoral student from Dr Fichna’s laboratory to our laboratory at URJC,

4 original articles published, 1 review, 3 review book chapters.

- **Dr Costa, Dr Brookes and Dr Spencer** (Flinders University of South Australia). In vitro and in vivo study of colonic motility by means of spatio-temporal maps. 2 conference papers; 1 original article published; 5 (2 predoctoral and 3 postdoctoral) research visits to their laboratory, 2 talks at their department; visit by Dr Brookes to our University (including a seminar, 2007); visit by **Dr Hennig** (currently at Reno University, USA) to our University (including a seminar, 2010).
- **Dr Storr** (München University, Germany), **Dr Makriyannis** (Northeastern University, Boston, USA) and **Dr. Fichna** (Medical University of Lodz, Poland). Study of the effects of the cannabinoid agonist AM841 on gastrointestinal motility in the rat. 1 oral communication; 1 original article published.
- **Dr De Giorgio** (Università di Bologna, Italy). Study of the histologic and immunohistochemical alterations induced by chronic cisplatin in the rat gut wall. 3 conference papers; 1 original article published.
- **Dr Furness** (Melbourne University, Australia) and **Dr Hanani** (Hebrew University of Jerusalem, Israel). Study of peripheral and enteric neuropathies. Visit by Dr Furness to our University (including a seminar, 2012). Visit to Dr Furness and seminar at his department (2013, 2017), 1 talk at Melbourne University (2013). Visit by Dr Hanani to our University (including a seminar, 2014).
- **Dr Soto-Montenegro** and **Dr Desco** (Unidad de Medicina y Cirugía Experimental del Hospital General Universitario Gregorio Marañón, Madrid, Spain). Study of the effect of resveratrol on the complications associated to metabolic syndrome and type 2 diabetes mellitus in rat models; study of the potential effects of monosodium glutamate to alleviate or prevent the adverse effects induced by cisplatin in the rat; study of different preventive strategies to counteract schizophrenia. 4 projects; 8 conference papers; 1 review article and 3 original articles published. Co-supervision of 1 PhD student, and 2 Degree students. Honorary collaborator of our Department.
- **Dr Del Castillo** (CIAL-CSIC). Study of the effects of coffee by-products on the gastrointestinal function. 4 articles published, 2 in preparation. 2 book chapters published. Co-supervision of 1 PhD student, 2 Master students and 1 Degree student. 1 joint project. Honorary collaborator of our Department.
- **Dr Pantrigo** and **Dr Sanz-Montemayor** (URJC). In vivo study of gastrointestinal motility by means of fluoroscopy recordings and spatio-temporal maps. 1 patent filed; 1 original article published.
- **Dr Lombó** (BITTEN-IUOPA-Oviedo), **Dr Cámara-Vicario** (Hospital de Alcorcón). Study of new treatments for colorectal cancer. 1 review book chapter and 1 review article published. 1 original article.
- **Dr Martínez** (U. Barcelona). Effects of opioids, cannabinoids, nutraceuticals and probiotics on gastrointestinal tract functions (motility, pain). 4 review papers published.
- **Dr Llorente-Berzal** (UAM). Involvement of the endogenous cannabinoid system in the central and gastrointestinal adverse effects of chemotherapy. 2 review papers.
- **Dr García-Jiménez** (URJC). Study of the molecular alterations induced by chronic cisplatin in the rat myenteric neurones. 1 conference paper; 1 original article published.
- **Dr Goya** and **Dr Jagerovic** (Medical Chemistry Institute, Superior Council of Scientific Research, Spain). Characterization of new synthetic molecules, mainly with opioid or cannabinoid activity. 8 projects; 3 conference papers; 2 original articles published; 1 review book chapter published.
- **Dr Quesada** (Medical Chemistry Institute, Superior Council of Scientific Research, Spain). 1 project; 1 review book chapter published.

PUBLICATIONS:

Indexed articles

1. Gomariz RP, Garrido E, Leceta J, Martínez C, **Abalo R**, Delgado M. Gene expression of VIP receptor in rat lymphocytes. *Biochem Biophys Res Commun*. 1994; 203(3):1599-604.
2. Goicoechea C, Ormazábal MJ, **Abalo R**, Alfaro MJ, Martín MI. Calcitonin reverts pertussis toxin blockade of the opioid analgesia in mice. *Neurosci Lett*. 1999; 273(3):175-8.
3. **Abalo R**, Pascual D, Goicoechea C, Martín MI. Blockade by pertussis toxin of the opioid effect on guinea pig ileum. Contractility and electrophysiological neuronal recording. *Neurosci Lett*. 2000; 291(3):131-4.
4. Jagerovic N, Cano C, Elguero J, Goya P, Callado LF, Meana JJ, Girón R, **Abalo R**, Ruiz D, Goicoechea C, Martín MA. Long-acting fentanyl analogues: synthesis and pharmacology of N-(1-phenylpyrazolyl)-N-(1-phenylalkyl-4-piperidyl) propanamides. *Bioorg Med Chem*. 2002; 10(3):817-27.
5. Girón R, **Abalo R**, Goicoechea C, Martín MI, Callado LF, Cano C, Goya P, Jagerovic N. Synthesis and opioid activity of new fentanyl analogs. *Life Sci*. 2002; 71(9):1023-34.
6. **Abalo R**, Goicoechea C, Martín MI. Blockade of Gi/o proteins modifies electrical activity of S-myenteric neurons from guinea-pig ileum. *Neurosci Lett*. 2004; 356(3):175-8.
7. **Abalo R**, José Rivera A, Vera G, Isabel Martín M. Ileal myenteric plexus in aged guinea-pigs: loss of structure and calretinin-immunoreactive neurones. *Neurogastroenterol Motil*. 2005; 17(1):123-32.
8. **Abalo R**, Rivera AJ, Vera G, Suardíaz M, Martín MI. Evaluation of the effect of age on cannabinoid receptor functionality and expression in guinea-pig ileum longitudinal muscle-myenteric plexus preparations. *Neurosci Lett*. 2005; 383(1-2):176-81.
9. Vera G, Chiarlone A, Martín MI, **Abalo R**. Altered feeding behaviour induced by long-term cisplatin in rats. *Auton Neurosci*. 2006; 126-127:81-92.
10. **Abalo R**, Vera G, Rivera AJ, Martín MI. Age-related changes in the gastrointestinal tract: a functional and immunohistochemical study in guinea-pig ileum. *Life Sci*. 2007; 80(26):2436-45.
11. Vera G, Chiarlone A, Cabezos PA, Pascual D, Martín MI, **Abalo R**. WIN 55,212-2 prevents mechanical allodynia but not alterations in feeding behaviour induced by chronic cisplatin in the rat. *Life Sci*. 2007; 81(6):468-79.
12. Cabezos PA, Vera G, Castillo M, Fernández-Pujol R, Martín MI, **Abalo R**. Radiological study of gastrointestinal motor activity after acute cisplatin in the rat. Temporal relationship with pica. *Auton Neurosci*. 2008; 141(1-2):54-65. doi: 10.1016/j.autneu.2008.05.004.
13. **Abalo R**, Cabezos PA, López-Miranda V, Vera G, González C, Castillo M, Fernández-Pujol R, Martín MI. Selective lack of tolerance to delayed gastric emptying after daily administration of WIN 55,212-2 in the rat. *Neurogastroenterol Motil*. 2009; 21(9):1002-e80. doi: 10.1111/j.1365-2982.2009.01315.x.
14. **Abalo R**, Vera G, Rivera AJ, Moro-Rodríguez E, Martín-Fontelles MI. Postnatal maturation of the gastrointestinal tract: a functional and immunohistochemical study in the guinea-pig ileum at weaning. *Neurosci Lett*. 2009; 467(2):105-10. doi: 10.1016/j.neulet.2009.10.015.
15. **Abalo R**, Cabezos PA, Vera G, Fernández-Pujol R, Martín MI. The cannabinoid antagonist SR144528 enhances the acute effect of WIN 55,212-2 on gastrointestinal motility in the rat. *Neurogastroenterol Motil*. 2010; 22(6):694-e206. doi: 10.1111/j.1365-2982.2009.01466.x.
16. Cabezos PA, Vera G, Martín-Fontelles MI, Fernández-Pujol R, **Abalo R**. Cisplatin-induced gastrointestinal dysmotility is aggravated after chronic administration in the rat. Comparison with pica. *Neurogastroenterol Motil*. 2010; 22(7):797-805, e224-5. doi: 10.1111/j.1365-2982.2010.01483.x.
17. Vera G, Castillo M, Cabezos PA, Chiarlone A, Martín MI, Gori A, Pasquinelli G, Barbara G, Stanghellini V, Corinaldesi R, De Giorgio R, **Abalo R**. Enteric neuropathy evoked by

- repeated cisplatin in the rat. *Neurogastroenterol Motil.* 2011; 23(4):370-8, e162-3. doi: 10.1111/j.1365-2982.2011.01674.x.
18. **Abalo R**, Cabezos PA, Vera G, López-Miranda V, Herradón E, Martín-Fontelles MI. Cannabinoid-induced delayed gastric emptying is selectively increased upon intermittent administration in the rat: role of CB1 receptors. *Neurogastroenterol Motil.* 2011; 23(5):457-67, e177. doi: 10.1111/j.1365-2982.2011.01677.x.
 19. González C, Herradón E, **Abalo R**, Vera G, Pérez-Nievas BG, Leza JC, Martín MI, López-Miranda V. Cannabinoid/agonist WIN 55,212-2 reduces cardiac ischaemia–reperfusion injury in Zucker diabetic fatty rats: role of CB2 receptors and iNOS/eNOS. *Diabetes Metab Res Rev.* 2011; 27(4):331-40. doi: 10.1002/dmrr.1176.
 20. López-Miranda V, Soto-Montenegro ML, Vera G, Herradón E, Desco M, **Abalo R**. Resveratrol: a neuroprotective polyphenol in the Mediterranean diet. *Rev Neurol.* 2012 Mar 16;54(6):349-56.
 21. Vera G, López-Miranda V, Herradón E, Martín MI, **Abalo R**. Characterization of cannabinoid-induced relief of neuropathic pain in rat models of type 1 and type 2 diabetes. *Pharmacol Biochem Behav.* 2012; 102(2):335-43. doi: 10.1016/j.pbb.2012.05.008.
 22. **Abalo R**, Vera G, López-Pérez AE, Martínez-Villaluenga M, Martín-Fontelles MI. The gastrointestinal pharmacology of cannabinoids: focus on motility. *Pharmacology.* 2012; 90(1-2):1-10. doi: 10.1159/000339072.
 23. Vera G, Cabezos PA, Martín MI, **Abalo R**. Characterization of cannabinoid-induced relief of neuropathic pain in a rat model of cisplatin-induced neuropathy. *Pharmacol Biochem Behav.* 2013; 105:205-12. doi: 10.1016/j.pbb.2013.02.008.
 24. **Abalo R**, Cabezos PA, Vera G, López-Pérez AE, Martín MI. Cannabinoids may worsen gastric dysmotility induced by chronic cisplatin in the rat. *Neurogastroenterol Motil.* 2013; 25(5):373-82, e292. doi: 10.1111/nmo.12073.
 25. Vera G, López-Pérez AE, Martínez-Villaluenga M, Cabezos PA, **Abalo R**. X-ray analysis of the effect of the 5-HT₃ receptor antagonist granisetron on gastrointestinal motility in rats repeatedly treated with the antitumoral drug cisplatin. *Exp Brain Res.* 2014; 232(8):2601-12. doi: 10.1007/s00221-014-3954-5.
 26. Uranga-Ocio JA, Bastús-Díez S, Delkáder-Palacios D, García-Cristóbal N, Leal-García MÁ, **Abalo-Delgado R**. Enteric neuropathy associated to diabetes mellitus. *Rev Esp Enferm Dig.* 2015 Jun;107(6):366-73.
 27. López-Miranda V, Soto-Montenegro ML, Uranga-Ocio JA, Vera G, Herradón E, González C, Blas C, Martínez-Villaluenga M, López-Pérez AE, Desco M, **Abalo R**. Effects of chronic dietary exposure to monosodium glutamate on feeding behavior, adiposity, gastrointestinal motility, and cardiovascular function in healthy adult rats. *Neurogastroenterol Motil.* 2015; 27(11):1559-70. doi: 10.1111/nmo.12653.
 28. **Abalo R**, Chen C, Vera G, Fichna J, Thakur GA, López-Pérez AE, Makriyannis A, Martín-Fontelles MI, Storr M. In vitro and non-invasive in vivo effects of the cannabinoid-1 receptor agonist AM841 on gastrointestinal motor function in the rat. *Neurogastroenterol Motil.* 2015; 27(12):1721-35. doi: 10.1111/nmo.12668.
 29. Girón R, Pérez-García I, **Abalo R**. X-ray analysis of gastrointestinal motility in conscious mice. Effects of morphine and comparison with rats. *Neurogastroenterol Motil.* 2016 Jan;28(1):74-84. doi: 10.1111/nmo.12699.
 30. Uranga JA, López-Miranda V, Lombó R, **Abalo R**. Food, nutrients and nutraceuticals affecting the course of inflammatory bowel disease. *Pharmacol Rep.* 2016 Aug;68(4):816-26. doi: 10.1016/j.pharep.2016.05.002.
 31. McQuade R, Stojanovska V, Donald E, **Abalo R**, Bornstein JC, Nurgali K. Gastrointestinal dysfunction and enteric neurotoxicity following treatment with anti-cancer chemotherapeutic agent 5-fluorouracil. *Neurogastroenterol Motil.* 2016 Dec;28(12):1861-1875. doi: 10.1111/nmo.12890.
 32. **Abalo R**, Uranga JA, Pérez-García I, de Andrés R, Girón R, Vera G, López-Pérez AE, Martín-Fontelles MI. May cannabinoids prevent the development of chemotherapy-induced diarrhea and intestinal mucositis? Experimental study in the rat. *Neurogastroenterol Motil.* 2017, 29(3). doi: 10.1111/nmo.12952.

33. McQuade RM, Stojanovska V, **Abalo R**, Bornstein JC and Nurgali K. Chemotherapy-Induced Constipation and Diarrhea: Pathophysiology, Current and Emerging Treatments. *Front Pharmacol*. 2016 Nov 3;7:414. doi: 10.3389/fphar.2016.00414.
34. Vera G, López-Pérez AE, Uranga JA, Girón R, Martín-Fontelles MI, **Abalo R**. Involvement of Cannabinoid Signaling Contribute in Vincristine-Induced Gastrointestinal Dysmotility In The Rat. *Front Pharmacol*. 2017 Feb 6;8:37. doi: 10.3389/fphar.2017.00037.
35. Uranga JA, García-Martínez JM, García-Jiménez C, Vera G, Martín-Fontelles MI, **Abalo R**. Alterations of the small intestinal wall and motor function after repeated cisplatin in the rat. *Neurogastroenterol Motil*. 2017 Jul;29(7). doi: 10.1111/nmo.13047.
36. Ramírez I, Pantrigo JJ, Sanz-Montemayor A, López-Pérez AE, Martín-Fontelles MI, Brookes SJH, **Abalo R**. Computer vision-based diameter maps to study fluoroscopic recordings of small intestinal motility from conscious experimental animals. *Neurogastroenterol Motil*. 2017 Aug;29(8). doi: 10.1111/nmo.13052.
37. Herradón E, González C, Uranga JA, **Abalo R**, Martín-Fontelles MI, López-Miranda V. Characterization of cardiovascular alterations induced by chronic cisplatin treatment in rats. *Front Pharmacol*. 2017 May 8;8:196. doi: 10.3389/fphar.2017.00196.
38. McQuade RM, Stojanovska V, Donald EL, Rahman AA, Campelj DG, **Abalo R**, Rybalka E, Bornstein JC, Nurgali K. Irinotecan-Induced Gastrointestinal Dysfunction Is Associated with Enteric Neuropathy, but Increased Numbers of Cholinergic Myenteric Neurons. *Front Physiol*. 2017 Jun 8;8:391. doi: 10.3389/fphys.2017.00391.
39. McQuade RM, Stojanovska V, Stavely R, Timpani C, Petersen AC, **Abalo R**, Bornstein JC, Rybalka E, Nurgali K. Oxaliplatin-induced enteric neuronal loss and intestinal dysfunction is prevented by co-treatment with BGP-15. *Br J Pharmacol*. 2018, 175(4): 656-677. doi: 10.1111/bph.14114.
40. Uranga JA, Castro M, **Abalo R**. Guanylate cyclase C: a current hot target, from physiology to pathology. *Curr Med Chem*. 2018; 25(16):1879-1908. doi: 10.2174/0929867325666171205150310.
41. Mosinska P, **Abalo R**. Young GI angle: Boosting your career development with fellowship experience. *United European Gastroenterol J*. 2018 Mar;6(2):331-332. doi: 10.1177/2050640618760408
42. Roman P, **Abalo R**, Marco EM, Cardona D. Probiotics in digestive, emotional, and pain-related disorders. *Behav Pharmacol*. 2018 Apr; 29(2 and 3 - Special Issue):103-119. doi: 10.1097/FBP.0000000000000385.
43. López-Pérez AE, Nurgali K, **Abalo R**. Painful neurotrophins and their role in visceral pain. *Behav Pharmacol*. 2018 Apr; 29(2 and 3 - Special Issue):120-139. doi: 10.1097/FBP.0000000000000386.
44. Nurgali K, Jagoe RT, **Abalo R**. Editorial: Adverse effects of cancer chemotherapy: Anything new to improve tolerance and reduce sequelae? *Front Pharmacol*. 2018 Mar 22;9:245. doi: 10.3389/fphar.2018.00245. eCollection 2018.
45. López-Gómez L, Díaz-Ruano S, Girón R, López-Pérez AE, Vera G, Herradón Pliego E, López-Miranda V, Nurgali K, Martín-Fontelles MI, Uranga JA, **Abalo R**. Preclinical evaluation of the effects on the gastrointestinal tract of the antineoplastic drug vincristine repeatedly administered to rats. *Neurogastroenterol Motil*. 2018 Nov;30(11):e13399. doi: 10.1111/nmo.13399.
46. Uranga JA, Vera G, **Abalo R**. Cannabinoid pharmacology and therapy in gut disorders. *Biochem. Pharmacol*. 2018 Nov;157:134-147. doi: 10.1016/j.bcp.2018.07.048.
47. Paniagua N, Goicoechea C, **Abalo R**, López-Miranda V, Vela JM, Merlos M, Martín Fontelles MI, Girón R. May a sigma-1 antagonist improve neuropathic signs induced by cisplatin and vincristine in rats? *Eur J Pain*. 2019 Mar;23(3):603-620. doi: 10.1002/ejp.1333.
48. Martín-Ruiz M, Uranga JA, Mosinska P, Fichna P, Nurgali K, Martín-Fontelles MI, **Abalo R**. Alterations of colonic sensitivity and gastric dysmotility after acute cisplatin and granisetron. *Neurogastroenterol Motil*. 2019 Mar;31(3):e13499. doi: 10.1111/nmo.13499.

49. Tores de la Cruz S, Iriondo-DeHond A, Herrera T, Lopez-Tofiño Y, Galvez-Robleño C, Prodanov M, Velazquez-Escobar F, **Abalo R**, Castillo MDD. An Assessment of the Bioactivity of Coffee Silverskin Melanoidins. *Foods*. 2019 Feb 12;8(2). pii: E68. doi: 10.3390/foods8020068.
50. Díaz-Ruano S, López-Pérez AE, Girón R, Pérez-García I, Martín-Fontelles MI, **Abalo R**. Fluoroscopic Characterization of Colonic Dysmotility Associated to Opioid and Cannabinoid Agonists in Conscious Rats. *J Neurogastroenterol Motil*. 2019 Apr 30;25(2):300-315. doi: 10.5056/jnm18202.
51. Vera G, Girón R, Martín-Fontelles MI, **Abalo R**. Radiographic dose-dependency study of loperamide effects on gastrointestinal motor function in the rat. Temporal relationship with nausea-like behavior. *Neurogastroenterol Motil*. 2019 Aug;31(8):e13621. doi: 10.1111/nmo.13621.
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 60. Abalo R. Cannabinoides en el manejo de los trastornos del eje intestino-cerebro: ¿Realidad o ficción? **INVITED TALK** (State of the art lecture). XXXI Reunión de la Asociación Española de Neurogastroenterología y Motilidad (ASENEM). Madrid, 3-4 noviembre 2023.
 61. Sánchez del Pozo I, Montalbán Rodríguez A, Molina Díaz de Mendivil S, Abalo R, López-Gómez L, Vera G. Efectos del estrés prenatal en la motilidad gastrointestinal y la estructura del plexo mientérico de ratas macho. Estudio preliminar. XXXI Reunión de la Asociación Española de Neurogastroenterología y Motilidad (ASENEM). Madrid, 3-4 noviembre 2023.
 62. López-Tofiño Y, de Sosa F, Vera G, López-Gómez L, Herradón E, López-Miranda V, Nurgali K, Uranga JA, **Abalo R**. Efectos de la vincristina y el glutamato monosódico en la motilidad gastrointestinal y la sensibilidad visceral. XXXI Reunión de la Asociación Española de Neurogastroenterología y Motilidad (ASENEM). Madrid, 3-4 noviembre 2023.
 63. **Abalo R**. Dolor neuropático por neuropatía diabética. Jornada GTSED Ciencias Básicas-Dolor Neuropático. **INVITED TALK** Alcorcón, 10-11 November, 2023.
 64. **Abalo R**. Reducción de opioides con el cannabis medicinal: ¿es cierto? Mecanismos por los que sucede. Reunión online conjunta GTSED Opioides y Cannabinoides. ¿Amigos o enemigos? 24 noviembre, 2023.
 65. **Abalo Delgado R**, Millán Casas M, Silván Ros B, Montalbán Rodríguez A, Benítez Álvarez D, Pomana B, López-Tofiño Torrejón Y, López Gómez L, Vera Pasamontes G, Bagüés Arias A, Uranga Ocio JA. Efectos de la N-acetilcisteína en el eje intestino-pulmón en un modelo de sepsis por lipopolisacárido. **ORAL**. 27 Reunión Anual de la Asociación Española de Gastroenterología. Madrid, 13-15 marzo 2024.
 66. Sánchez del Pozo I, López-Tofiño Y, Chico-Cáceres A, López-Gómez L, Bagüés A, **Abalo R**, Vera G. Efectos del estrés prenatal en los umbrales nociceptivos y el comportamiento. Dimorfismo sexual. Congreso v.20.0 de la Sociedad Española del Dolor. León, 29-31 mayo 2024.

67. López-Tofiño Y, López-Gómez L, Vera G, Uranga JA, **Abalo R**. Alteraciones en la sensibilidad colónica por cisplatino repetido y efecto del glutamato monosódico. Congreso v.20.0 de la Sociedad Española del Dolor. León, 29-31 mayo 2024.
68. Nerea Pardo Costas, Blanca Silván-Ros, David Benítez Álvarez, Felipe Barragán Del Caz, Lorena Ortega Moreno, José Luis Rojo-Álvarez, Sergio Muñoz-Romero, **Raquel Abalo**. Efectos de la tormenta de citoquinas en el tránsito gastrointestinal. **ORAL**. Estudio radiográfico en un modelo animal optimizado para simular la COVID-19. 30 Reunión de Farmacólogos de Madrid, 11 junio 2024. UCM, Madrid.
69. Alba Sanz Torres, Silvia Flaj Prados, Antonio González Ruiz, Blanca Silván Ros, **Raquel Abalo**, Sergio Muñoz Romero, Jose Luis Rojo Álvarez, Esperanza Herradón Pliego, Visitación López-Miranda González. "Caracterización del daño renal agudo y a largo plazo (secuelas) en un model preclínico que imita el efecto de la tormenta de citoquinas asociada a la Covid-19, en una situación de envejecimiento. Implicación de la vía NLRP3. Farmadriid 30, 11 junio 2024. UCM, Madrid. Comunicación oral.
70. Antonio González, Silvia Flaj, Blanca Silván, **Raquel Abalo**, Sergio Muñoz, Jose Luis Rojo, Esperanza Herradón, Visitación López-Miranda. "Characterization of cardiovascular and renal damage, both acute and long-term (sequences), in a preclinical model that mimics the effect of the cytokine storm associated with Covid-19. DCAcademy Summer Meeting 2024. Comunicación oral
71. Gálvez C, Pomana B, López-Tofiño Y, Lamanna-Rama N, López-Gómez L, Márquez A, Soto-Montenegro ML, Abalo R, Uranga JA. Gastrointestinal tract changes in the offspring of the maternal immune activation model: modulatory role of N-acetylcysteine. XXII CONGRESO Sociedad Española de Histología e Ingeniería Tisular, X International Congress of Histology and Tissue Engineering, X Congreso Iberoamericano de Histología. Alicante, 10-13 septiembre 2024.
72. **Abalo R**. Coffee Components and By-Products for Brain-Gut Axis Health. International Coffee Convention 2024 (ICC2024). Mannheim, Alemania. 17-18 octubre 2024.
73. **Abalo R**. Homenaje a Marcello Costa/*Tribute to Marcello Costa*. **INVITED TALK**. XXXII Reunión de la Asociación Española de Neurogastroenterología y Motilidad Digestiva (ASENEM). 25 y 26 octubre 2024, Barcelona.
74. Gallego-Barceló P, Magán-Rubia MA, Chico-Cáceres A, López-Gómez L, Bagues A, **Abalo R**. Efecto de las dietas purificadas AIN93M y AIN93G en el tracto gastrointestinal de la rata: influencia del sexo y de la duración de la intervención. Reunión de la Asociación Española de Neurogastroenterología y Motilidad Digestiva (ASENEM). 25 y 26 octubre 2024, Barcelona.
75. Gallego-Barceló, P., Magán-Rubia, M.A, Chico-Cáceres, A, Bagues, A, López-Gómez, L, Del Castillo, M.D., **Abalo, R**. Effects of IC Beverage and Purified Diets on Gastrointestinal Motility in Male and Female Rats 5th Electronic Conference on Foods—The Future of Technology, Sustainability, and Nutrition in the Food Domain, in a virtual format on 28–30 October 2024.
76. Benítez-Álvarez D, Bagüés A, Majano P, Barragán LF, Silván-Ros B, López-Gómez L, Uranga JA, Molina F, Jiménez M, Adrados M, Cerdán C, García-Septiem J, Santander C, **Abalo R**. Alteraciones en la motilidad colónica asociadas a quimioterapia antitumoral. Toxicidad neuronal y papel del sistema cannabinoide endógeno (Beca AEG 2021). **ORAL**. 28 Reunión Anual de la Asociación Española de Gastroenterología. Madrid, 12-14 marzo 2025.
77. Merchán-Sánchez L, Gallego-Barceló P, Montalbán-Rodríguez A, López-Tofiño Y, Vera Pasamontes G, López-Gómez L, **Abalo R**. Effect of sex and purified diets in the structure and cellular composition of the rat colon myenteric plexus. APNM 2025, Korea, 3-5 April 2025.
78. López-Gómez L, Vera Pasamontes G, Merchán-Sánchez L, Benítez-Álvarez D, Montalbán-Rodríguez A, Pérez de Celis C, Ballesteros García J, **Abalo R**. Evaluation of gastrointestinal motility and immunohistochemical analysis the myenteric plexus in an animal model of prenatal stress. APNM 2025, Korea, 3-5 April 2025.
79. Silván-Ros B, Benítez-Álvarez D, Barragán LF, Pascual-Marina S, Díez-Clemente M,

- Rojo-Álvarez JL, Muñoz-Romero S, **Abalo R**. Impact of a pro-inflammatory cocktail stimulating COVID-19-like molecular pathways on Gastrointestinal Motility in a Preclinical Model in Aged Rats. ORAL, **Best oral communication in the category “PhD Molecular Research”**. 21st International and 63rd Polish Conference Juvenes Pro Medicina 15th-18th May 2025. Lodz, Poland.
80. **Abalo R**. Dolor visceral, cuestión de sexo. Jornada GTSED Ciencias Básicas. Explorando las últimas novedades en Investigación Básica en Dolor. ORAL. Webinar online. 7-7-25.
 81. **Abalo R**. Cannabinoid and opioid systems in visceral sensation and pain modulation. **INVITED TALK**. Symposium 3: Spotlight on the Enteric Nervous System and Neuroimmune Dysfunction. NeuroGASTRO 2025 Congress. 4-6 September 2025, London (UK).
 82. Gallego-Barceló P, Benítez-Álvarez D, Bagues A, Sanchez Del Pozo I, Lopez-Gomez L, Vera G, **Abalo R**. Sex-dependent effects of AIN-93M and AIN-93G purified diets on visceral sensitivity and other behavioral parameters in the rat. NeuroGASTRO 2025 Congress. 4-6 September 2025, London (UK).
 83. **Abalo R**. Enteric neuropathies induced by antitumoral drugs. **INVITED TALK**. XLII Annual SEF Meeting. Valencia, Spain. 10-12 September 2025.
 84. Merchán-Sánchez L, Silván-Ros B, Pascual-Marina S, López-Tofiño Y, Bagues A, Uranga JA, **Abalo R**. Setting up a FOLFOX-treated rat model to evaluate the short- and medium-term adverse effects of chemotherapy: preliminary results. XLII Annual SEF Meeting. Valencia, Spain. 10-12 September 2025.
 85. **Abalo Delgado R**, Pérez De Celis C, Merchán Sánchez L, Montalbán Rodríguez A, López-Gómez L, Vera Pasamontes G. Efectos del estrés prenatal en la motilidad gastrointestinal y en el plexo mientérico de ratas hembra. XXXIII Reunión de la Asociación Española de Neurogastroenterología y Motilidad (ASENEM), 24-25 Octubre, Sevilla.
 86. **Abalo R**. Novedades sobre cannabinoides y dolor visceral: de la preclínica a la clínica. INVITED TALK. V Jornada Annual GTSED Cannabinoides. Cannabinoides en dolor: nuevas evidencias, regulación y perspectivas de futuro. ORAL. Webinar online. 28-11-25.
 87. Ogando Zolle C, Navarro Martín C, Chico Cáceres A, Merchán-Sánchez L, Silván-Ros B, Gallego-Barceló P, López-Tofiño Y, Ortega Moreno L, López-Gómez L, Bagues A, Uranga JA, **Abalo Delgado R**. Efectos de FOLFOX en el eje intestino-cerebro en un modelo preclínico. 29 Reunión Anual de la Asociación Española de Gastroenterología. Madrid, 25-27 marzo 2026.
 88. **Abalo R**. Dietas “básicas” y su impacto en el dolor. Jornada GTSED Ciencias Básicas. Dolor: Innovación y vanguardia en investigación básica. ORAL. Webinar online. 17-4-26.
 89. **Abalo R**. GLP-1: moduladores inteligentes del metabolismo: Claves farmacológicas. IX **INVITED TALK**. Tertulias Farmacológicas. 29-4-26.
 90. **Abalo R**. Targeting the endocannabinoid system for abdominal pain. **INVITED TALK**. Miscellaneous in Translational NGM. 2026 FNM Meeting. 5-7 November 2026, Santa Fe de Bogotá, Colombia.

RESEARCH TRAINING AND MENTORING:

Supervisor of 6 doctoral theses:

- “1. Envejecimiento neuronal entérico. 2. Efecto del Δ^9 - THC y WIN 55,212-2 en la unión neuromuscular del diafragma de rata”, by Antonio José Rivera. Universidad Rey Juan Carlos. March, 2005. **EUROPEAN THESIS**.
- “1. Efecto del envejecimiento en la estructura y funcionalidad del plexo mientérico de ileon de cobayo. 2. Efecto de los cannabinoides en las alteraciones causadas por el tratamiento crónico con cisplatino en rata”, by Gema Vera. Universidad Rey Juan Carlos. October, 2009. **EUROPEAN THESIS. PhD Extraordinary Award from URJC**.
- “Efectos centrales y periféricos de la administración crónica del agonista cannabinoide WIN

55,212-2, y su utilización en algunas alteraciones producidas por el cisplatino en rata”, by Pablo Antonio Cabezos. Universidad Rey Juan Carlos. February, 2010.

- “Caracterización Fluoroscópica en Rata de la Dismotilidad Colónica Asociada a Tratamiento con Analgésicos y a Neuropatía”, by Susana Díaz Ruano. Universidad Rey Juan Carlos. February, 2020. **PhD Extraordinary Award from International Doctorate School, URJC.**
- “Gastrointestinal adverse effects of cancer chemotherapy. dismotility, pain and new approaches of manage them”, by Yolanda López-Tofiño Torrejón. Universidad Rey Juan Carlos. January, 2024. **INTERNATIONAL MENTION, COMPENDIUM OF ARTICLES. PhD Extraordinary Award International Doctorate School, URJC. 1st Award to the Best Doctoral Thesis on Basic Science, by the Spanish Society of Pain (SED).**
- “Functional and structural alterations of the gastrointestinal tract related to schizophrenia and cannabis: study in the maternal immune activation rat model”, by Carlos Gálvez Robleño. Universidad Rey Juan Carlos. July, 2024.

Supervisor of on-going research for 6 doctoral theses (Esther Nieto, Irene Núñez, Paula Gallego, Blanca Silván, David Benítez, Vanessa Ferreño). Supervisor of 14 End-of-Master theses and 72 End-of-Degree theses (+5 on-going).

Supervisor of students training at our laboratory: 7 students Health Sciences-URJC with collaboration scholarship (courses: 2014-15, 2015-16, 2016-17, 2018-19, and 2019-20) and 2 students of Biomedical Engineering-URJC, with collaboration scholarship and external training (courses 2021-22 and 2022-23); 1 student Arts-URJC, external training (course 2015-16); 1 student CYTA-URJC, 4 students Biology-URJC, external training (courses: 2019-20, 2021-22); 3 students Biology-UCM, external training (2015-16, 2016-17); 1 student Health Biology-UAH external training (2019-20); 4 foreign exchange Medicine students (2017-18, 2018-19); 1 student from Medical U. of Lodz (Poland), with Erasmus scholarship for Post-Degree Students (September-December 2016); 1 student from U. of Lodz (Poland), short postdoctoral training (October-November, 2019); 1 student from Akdeniz University (Turkey), with Erasmus scholarship for Post-Degree Students (September-December, 2024); 1 student from University of Warsaw (Poland), short predoctoral training (May, 2025); 2 student from University of West Attica (Greece), short pregraduate training (October-November 2025).

SEMINARS:

1. “Alterazioni indotte da antitumorali: effetti dei Cannabinoidi”. Dipartimento di Medicina Interna e Gastroenterologia, Policlinico S. Orsola-Malpighi, Bologna. 17th September 2007.
2. “X-rays and gastrointestinal motility: an old tool – new findings”. Department of Anatomy and Neuroscience, Melbourne University (Australia). 19th July 2013.
3. “Gastrointestinal motility through radiographic methods: an old tool – new findings” (Neurolunch) Centre for Neuroscience del Flinders Medical Centre, Adelaide (Australia). 6th September 2013.
4. “Análisis de los patrones de motilidad intestinal en rata mediante mapas espacio-temporales”. Fac. CC de la Salud, URJC. 20th November 2013.
5. “Métodos experimentales de valoración de la función gastrointestinal en la URJC y aplicación al estudio de los efectos de los antineoplásicos”. Fac. CC de la Salud, URJC, 29th May 2015.
6. “Puesta en marcha de un modelo de sepsis inducida por LPS y caracterización de sus efectos sobre el tracto gastrointestinal – Estudio MadZar”. Fac. CC de la Salud, URJC. 23rd June 2016.
7. “Métodos radiográficos para estudiar la motilidad gastrointestinal en animales de experimentación: una vieja herramienta, nuevos hallazgos”. Instituto de Investigación Sanitaria Aragón (Programa Neurociencias y Salud Mental, Seminarios científicos de la Fundación Instituto de Investigación Sanitaria Aragón). Zaragoza, 12 September 2016.
8. “Preclinical evaluation of opioid effects on gastrointestinal motility”. Dept. of Physiology, the University of Melbourne, Melbourne (Australia). 17th August 2017.
9. “Preclinical evaluation of opioid effects on gastrointestinal motility”. Centre for Health,

Research and Education, Sunshine Hospital, College of Health and Biomedicine, Victoria University, Melbourne (Australia). 18th August 2017.

10. "X-rays, videos and maps to study gastrointestinal motility". Dept. of Human Physiology. Flinders University of South Australia. Adelaide (Australia). 15th September 2017.
11. "Historias de modelos sobre la investigación preclínica". Jornadas Profesionales de Biología Sostenible – Grado de Biología, URJC. URJC, Campus de Móstoles, 18th March 2019.
12. "Farm-ingeniería: ingenios en ayuda de la farmacología". Meetup en Ingeniería Biomédica – Grado de Ingeniería Biomédica, URJC. URJC, Campus de Fuenlabrada, 17th May 2019.
13. "Eje intestino-cerebro en enfermedades neurodegenerativas (master-class)". Semana de la Ciencia, Tecnología e Innovación, XI Aniversario del Centro de Día Municipal La Magdalena. Centro de Día Municipal La Magdalena (Madrid), 4th June 2019.
14. "Chemotherapy-induced enteric neuropathies and their impact on gastrointestinal motor function". Laboratory of Molecular Oncology and Innovative Therapies. Military Institute of Medicine, Warsaw (Poland), 25th February 2020.
15. "Trastornos del eje intestino-cerebro: ¿cómo influye el sexo?". Jornada de Neurocientíficas, Campus de Alcorcón, URJC. 11th February 2022.

OTHER RELEVANT INFORMATION:

- Chair of the Organizing and Scientific Committee of the 26th Annual Meeting of Pharmacologists of Madrid, Farmadrid 26. URJC, Madrid. 29th June 2017.
- Guest of Honour at the 55th Polish and 13th International edition of "Juvenes Pro Medicina", University of Lodz, Poland. 19-20 May 2017.
- Guest Editor for the Frontiers Research Topics:
 - o "Adverse Effects of Cancer Chemotherapy: Anything New to Improve Tolerance and Reduce Sequelae?" (<http://journal.frontiersin.org/researchtopic/4540/adverse-effects-of-cancer-chemotherapy-anything-new-to-improve-tolerance-and-reduce-sequelae>)
 - o "Cancer Chemotherapy: The Challenge of Handling a Double-Edged Sword" (<https://www.frontiersin.org/research-topics/15067/cancer-therapy-the-challenge-of-handling-a-double-edged-sword>)
 - o "Herbal Medicine for the Treatment of Chronic Metabolic Diseases" (<https://www.frontiersin.org/research-topics/33487/herbal-medicine-for-the-treatment-of-chronic-metabolic-diseases>)
 - o "Women in Gastrointestinal and Hepatic Pharmacology 2022" (<https://www.frontiersin.org/research-topics/45801/women-in-gastrointestinal-and-hepatic-pharmacology-2022>)
- Special Issue Editor for the Special Issue "Coffee and Caffeine Consumption for Human Health" (Nutrients, ISSN 2072-6643; section "Phytochemicals and Human Health"; <https://www.mdpi.com/journal/nutrients/special-issues/Coffee-Health>)
- Cover (DOI 10.1111/nmo.1304) and editorial (DOI 10.1111/nmo.12990) by Dr Spencer (Flinders University, Adelaide, Australia), in the journal Neurogastroenterology & Motility (ISSN: 1365-2982), about our article "Gastrointestinal dysfunction and enteric neurotoxicity following treatment with anti-cancer chemotherapeutic agent 5-Fluorouracil" (McQuade R, Stojanovska V, Donald E, Abalo R, Bornstein JC, Nurgali K), issued in Neurogastroenterol Motil. 2016; 28(12):1861-1875 (doi: 10.1111/nmo.12890).
- Chair at the IV European Workshop on Cannabinoid Research, 2nd Session: Regulation of food intake and energy metabolism by cannabinoids (8th May 2009; El Escorial).
- Chair at the "Enteropathies" Session (28-3-2020, 8.30-10.30). 4th Meeting of the Federation of Neurogastroenterology and Motility (FNM 2020). Adelaide, Australia (25-28 March 2020; postponed to 2021 due to COVID-19).
- External evaluator: Biotechnology and Biological Sciences Research (UK, 2003); Agencia Nacional de Promoción Científica y Tecnológica (ANPCyT) y el Fondo para la Investigación Científica y Tecnológica (FONCyT), Plan Argentina Innovadora 2020 (2017, 2019); National Science Centre (Poland, 2018, 2019, 2020); Medical Research Council (UK, 2019); Natural

Sciences and Engineering Research Council of Canada (NSERC, 2020); Agencia Estatal de Investigación (Spain, 2022); Independent Research Fund Denmark (Danish Agency for Science and Higher Education, 2023); Research Foundation Flanders (FWO, European Science Foundation, 2023); SciPinion (USA).

- Jury of the doctoral thesis defended by Fatima Marques Ramalhosa, entitled "The impact of dexamethasone on the enteric nervous system", supervised by Dr. Franky Carvalho. Braga (Portugal), 5th April, 2017.
- Referee of the following journals: Neurogastroenterology and Motility (2005-); Neuroscience Letters (2006-); Brain Research (2006-); Life Sciences (2007-); British Journal of Pharmacology (2007); Canadian Journal of Physiology and Pharmacology (2007-); American Journal of Physiology (Regulatory, Integrative and Comparative Physiology; Renal Physiology) (2009-); Journal of Pharmacological and Toxicological Methods (2010-); Autonomic Neuroscience: Basic and Clinical (2010-); Food and Chemical Toxicology (2011-); African Journal of Pharmacy and Pharmacology (2012-); World Journal of Gastrointestinal Pharmacology and Therapeutics (2012-); World Journal of Gastroenterology (2012-); BMC Gastroenterology (2012-); Clinical Neuroanatomy (2013-); Fundamental and Clinical Pharmacology (2012-); Pharmacological Reports (2013-); Journal of Pharmacological and Experimental Therapeutics (2013-); Phytotherapy Research (2013-); Gut (2014-); World Journal of Radiology (2014); Experimental Brain Research (2014); Naunyn-Schmiedeberg's Archives of Pharmacology (2014-); Current Medicinal Chemistry (2015-); Behavioral Pharmacology (2015-); Archives of Medical Research (2015-); Chemical Biology and Drug Design (2016); Frontiers (several sections) (2016-); Neuropeptides (2016-); Journal of Clinical Gastrointestinal Treatment (2016-); Current Drug Targets (2016-); Journal of Neurogastroenterology and Motility (2016-); World Journal of Surgical Oncology (2017-); European Journal of Pharmacology (2017-); Journal of Histochemistry and Cytochemistry (2017-); Pharmacological Research (2018-); Biochemical Pharmacology (2018-); Future Medicinal Chemistry (2018-); Future Oncology (2018-); Peptides (2018-); Future Oncology (2018-); Supportive Care in Cancer (2018-); European Journal of Nutrition (2018-); Drug Discovery Today (2019-); International Journal of Colorectal Disease (2018-); Nutrients (2019-); Acta Biochimica Polonica (2019-); Critical Reviews in Oncology/Hematology (2020-); Nature (2022-).
- Editorial board member of Frontiers in Gastrointestinal Pharmacology (April 2011-).
- Editorial board member of Neurogastroenterology and Motility (May 2018-).
- Member of the following scientific associations: Sociedad Española de Farmacología (SEF), Grupo Español de Motilidad Digestiva (GEMD), Sociedad Española de Neurociencia (SENC), Sociedad Española de Investigación en Cannabinoides (SEIC), European Society of Neurogastroenterology and Motility (ESNM), Sociedad Española del Dolor (SED).
- 1996, Second National Award for Graduates in Biological Sciences in 1995.