

Curriculum Vitae

Personal information **Olga Maria Palomino**

Work experience

1. Employer: University Complutense Madrid
 - Start date: 05/2009
 - End date:
 - Position: Full Professor
 - Activities: Responsible for the theoretical and practical classes of Pharmacognosy and Phytotherapy and Pharmacology for undergraduate students in Pharmacy. • Post graduate and master lectures related to Phytotherapy, Manufacturing (control of raw material, in process and finished product specifications) or Legal framework of Herbal medicines at European level. • Invited speaker in several Courses or conferences related to Phytotherapy, Manufacturing (control of raw material, in process and finished product specifications) or Legal framework of Herbal medicines at European level. • PhD Direction: 3 • Direction of Final Year Dissertations: 13 • Direction of Research studies (DEA): 2 • Direction of Collaborating Grants for Students UCM : 5 • Tutor of Erasmus Students within the Department of Pharmacology, Faculty of Pharmacy UCM: 7 • Lectures as invited speaker at national/international courses
 - Country: Spain
2. Employer: University Complutense Madrid
 - Start date: 10/2006
 - End date: 05/2009
 - Position: Assistant Professor
 - Activities:

Professor for practical classes on Pharmacology/ Pharmacognosy

Researcher member of the Research Group "Pharmacology of Natural products" from the Pharmacology Department, Faculty of Pharmacy, UCM. The research lines followed by this group cover the study of several pharmacological activities that are based on the antioxidant ability of those compounds found in vegetal species with therapeutic interest, namely a) Neuroprotective activity. This research is developed on cellular lines from the neuroglia such as astrocytes (U_373 MG) and neurons (pC12). b) Antitumoral activity research on those cellular lines proposed by the National Cancer Institute (NCI): MCF_7, UACC_62 and TK.10. c) Vascular protective activity on primary cultures from aortic smooth muscle cells from rat. d) Chemical analysis: identification, isolation and characterization of the active compounds.
 - Country: Spain
3. Employer: Arkopharma Laboratoires
 - Start date: 11/1999
 - End date: 09/2006
 - Position: Technical Assistant
 - Activities:

Responsible for Development of Application Dossiers for different medicinal products for human use in the European Union: Herbal Medicinal Products, OTC medicines, Prescription medicines.

Responsible for new Herbal products formula development under different Legal status (THMP, Food Supplements)

Technical Assistant for Research Department (R+D)

Invited to several meetings and courses on Phytotherapy and Herbal products Legal Status
 - Country: Spain
4. Employer: National Institute of Agriculture Research
 - Start date: 09/1997
 - End date: 12/1999
 - Position: Researcher
 - Activities:

Development of chromatographic analysis (HPLC_GC) from different vegetal samples. Writing up Congress communications and scientific manuscripts.
 - Country: Spain
5. Employer: National Institute of Agriculture Research
 - Start date: 09/1999
 - End date: 11/1999
 - Position: Researcher
 - Activities:

Development of chromatographic analysis (HPLC_GC) from different vegetal samples. Writing up Congress communications and scientific manuscripts.
 - Country: Spain

Education and training

1. Subject: University Complutense de Madrid
 - Start date: 1071984
 - End date: 0671989
 - Qualification: Degree in Pharmacy
 - Organisation: University Complutense of Madrid
 - Country: Spain
2. Subject: University Complutense of Madrid
 - Start date: 0171990
 - End date: 0571995
 - Qualification: Doctorate degree in Pharmacy
 - Organisation: University Complutense of Madrid
 - Country: Spain

Additional information

Publications

Iglesias-Fortes S, González-Blanco C, García-Carrasco A, Izquierdo-Lahuerta A, García G, García-Aguilar A, Lockwood A, Palomino O, Madina-Gómez G, Benito M, Guillén C. The overexpression of human amylin in pancreatic beta cells facilitate the appearance of amylin aggregates in the kidney contributing to diabetic nephropathy. *Scientific Reports* 2024, 14:24729

Rodríguez JL, Clavo ZM, Ramos-González M, de la Cruz M, Bada-Laura W, Palomino O, Fernández-Alfonso MS, Mateos R, Goya L. Cytoprotective and anti-oxidative stress capacity of South American medicinal plant *brunfelsia grandiflora* in endothelial cells. *J Biol Regul Homeost Agents* 2023, 37(11):6179-6192

Rodríguez JL, Mateos R, Palomino O, Fernández-Alfonso MS, Ramos-Cevallos N, Inostroza-Ruiz L, Pandruo-Tenazoa N, Bada-Laura W, Ramírez-Flores N, Goya L. Cytoprotective-antioxidant effect of *Brunfelsia grandiflora* extract on neuron-like cells. *Appl Sci* 2023, 13.12233

Rodríguez JL, Berrios P, Clavo ZM, Marín-Bravo M, Inostroza-Ruiz L, Ramos-Gonzalez M, Quispe-Solano M, Fernandez-Alfonso MS, Palomino O, Goya L. Chemical characterization, antioxidant capacity and anti-oxidative stress potential of South American Fabaceae *Desmodium tortuosum*. *Nutrients* 2023, 15: 746.

Palomino O, Giordani V, Chowen J, Fernández Alfonso, S, Goya L. Physiological Doses of Oleic and Palmitic Acids Protect Human Endothelial Cells from Oxidative Stress. *Molecules* 2022, 27, 5217. <https://doi.org/10.3390/molecules27165217>

Palomino O, García_Aguilar A, González A, Guillén C, Benito M, Goya L. Biological actions and molecular mechanisms of *Sambucus nigra* L. in neurodegeneration: a cell culture approach. *Molecules* 2021, 26(16): 4829

García_Aguilar A, Palomino O, Benito M, Guillén C. Dietary Polyphenols in Metabolic and Neurodegenerative Diseases: Molecular Targets in Autophagy and Biological Effects. *Antioxidants* 2021; 10(2):142. <https://doi.org/10.3390/antiox10020142>

Apaza L, Sánchez_Rumbero A, Estrada C, Palomino OM. Identification of TRPV1 Ion Channels Agonists of *Tropaeolum tuberosum* in Human Skin Keratinocytes *Planta Med* 2020, DOI 10.1055/a_1264_0572

Ferreira Martins T, Palomino OM, Álvarez_Cilleros D., Martín MA, Ramos S, Goya L. Cocoa Flavonols Protect Human Endothelial Cells From Oxidative Stress. *Plant Foods for Human Nutrition* 2020, 75:161–168(doi: 10.1007/s11130_020_00807_1)

Arkoub_Hamitouche L, González_del_Campo V, López_Oliva ME, Fatiha B, Palomino, OM. *Paronychia argentea* Lam. protects renal endothelial cells against oxidative injury. *J. Ethnopharmacol* 2020, 248: 112314 (available on line Oct 17th, 2019 <https://doi.org/10.1016/j.jep.2019.112314>)

González-Cofrade L, de las Heras B, Apaza L, Palomino OM. Molecular targets involved in the neuroprotection mediated by terpenoids. *Planta Medica* 2019, DOI 10.1055/a_0953_6738

Abuashwashi M, Palomino OM*, Gómez_Serranillos MP. Análisis de la composición del aceite esencial de *Rosmarinus officinalis* L. y estudio preliminar de su actividad antioxidante. *Ars Pharm* 2018, 259_264. ISBN: 978_84_943468_5_9

de las Heras B, Ortega T, Palomino O, Benedi J. UCMspace_comunica)), a web space as a multidisciplinary learning tool for the improvement of scientific communication. *Basic & Clinical Pharmacology & Toxicology* 2018, 123, Suppl 2: 75 (meeting abstract: P113)

Abashwashi, M.A.; Palomino, O.M.; Gómez_Serranillos M.P. *Rosmarinus officinalis* L. Essential Oil Protects Astrocytes against Oxidative Damage. *Journal of Pharmacology & Clinical Research* 2017, 2(5): 555598. DOI: 10.19080/JPCR.2017.02.555598. Abashwashi, M.A.;

Palomino, O.M.; Gómez_Serranillos M.P. *Rosmarinus officinalis* L. Essential Oil Protects Astrocytes against Oxidative Damage. *Journal of Pharmacology & Clinical Research* 2017, 2(5): 555598. DOI: 10.19080/JPCR.2017.02.555598.

Moura de Gouveia N, Ramos S, Martín MÁ, Espindola FS, Goya L, Palomino OM. *Vochysia rufa* Stem Bark Extract Protects Endothelial Cells against High Glucose Damage. *Medicines (Basel)*. 2017, 4(1). pii: E9. doi: 10.3390/medicines4010009.

Palomino, O.M.; Gouveia N.M, N.M.; Ramos, S.; Martín, M.A.; Goya, L. Protective effect of *Silybum marianum* on endothelial cells submitted to high glucose concentration. *Planta Med* 2017, Jan;83(1_02):97_103. doi: 10.1055/s_0042_113135. Epub 2016 Aug 15.

Abashwashi, M.A.; Palomino, O.M*; Gómez_Serranillos M.P. Preliminary Studies on the Protective Effect of *Rosmarinus officinalis* on Astrocytes. *Journal of Pharmacology & Clinical Research* 2016, 1(1): 555556 DOI 10.19080/JPCR.2016.01.555556

Abashwashi, M.A.; Palomino, O.M*; Gómez_Serranillos M.P. Geographic origin influences the phenolic composition and antioxidant potential of wild *Crataegus monogyna* from Spain. *Pharmaceutical Biology* 2016, DOI: 10.1080/13880209.2016.1179769

López, A., El_Naggar, T., Dueñas, M., Ortega, T., Estrella, I., Hernández, T., Gómez_Serranillos, M.P., Palomino, O.M. and Carretero, M.E. Influence of Processing in the Phenolic Composition and Health_Promoting Properties of Lentils (*Lens culinaris* L.). *Journal of Food Processing and Preservation* 2016, DOI:10.1111/jfpp.13113

Palomino, O.M. Regulation of Herbal (traditional) Medicinal Products in the European Union. *Pharmaceut Reg Affairs* 2015, 4: 142. DOI: 10.4172/2167_7689.1000142

López A, Palomino O, Ortega T, Carretero E. Protective Effect of Anthocyanidins on Astrocytes and Apoptosis Induced by Oxidative Damage. *Planta Medica letters* 2015, 05/2015; 2(01):e19_e24. DOI:10.1055/s_0035_1545938 M

Abuashwashi M, Palomino O, Gómez-Serranillos P. Variability in the polyphenolic composition and antioxidant ability

of wild *Rosmarinus officinalis* L. collected in Spain *Planta Medica* 2014, 10/2014; 80(16).
DOI:10.1055/s_0034_1395100

Palomino O.M. Current knowledge in *Polypodium leucotomos* effect on skin protection. *Arch Dermatol Res* 2014, DOI 10.1007/s00403_014_1535_x

Fernández, L.F.; Palomino, O.M.; Frutos, G. Effectiveness of *Rosmarinus officinalis* essential oil as antihypotensive agent in primary hypotensive patients and its influence in Health_Related Quality of Life. *J. Ethnopharmacol* 2013, 151: 509_516. doi: 10.1016/j.jep.2013.11.006.

Eissa, T.A.F.; Palomino, O.M.; Carretero, M.E.; Gómez_Serranillos, M.P. Ethnopharmacological study of medicinal plants used in the treatment of CNS disorders in Sinai peninsula, Egypt. *J. Ethnopharmacol* 2013, 151: 317–332. doi: 10.1016/j.jep.2013.10.041i

Gómez_Serranillos, M.P.; Palomino, O.M.; Ortega, M.T.; Carretero, M.E. Recent advances on Medicinal plants with Antifungal Activity. In: *Antifungal Metabolites from Plants*. 2013, pp 167_230. Ed. Springer. Mehdi Razzaghi_Abyaneh, Mahendra Rai Editors. Heidelberg (The Netherlands). ISBN 978_3_642_38075_4

López, A.; El_Naggar, T.; Dueñas, M.; Ortega, T.; Estrella, I.; Hernández, T.; Gómez_Serranillos, M.P.; Palomino O.M.; Carretero, M.E. Effect of cooking and germination on phenolic composition and biological properties of dark beans (*Phaseolus vulgaris* L.) *Food Chemistry* 2013, 138(1), 547_555

Gómez_Serranillos, M.P.; Martín, S.; Ortega, M.T.; Palomino O.M.; Prodanov, M.; Vacas, V.; Hernández, T.; Estrella, I.; Carretero, M.E. Study of Red Wine Neuroprotection on Astrocytes. *Materiae Vegetabiles* 2012, 64(4), 238_243

Gómez_Serranillos, M.P.; Palomino O.M. Quercetin: Natural Sources and Health Benefits. In: *Quercetin: Dietary Sources, Functions and Health Benefits*. 2012. Nova Science Publishers. Hauppauge, NY, EEUU. ISBN: 978_1_61942_057_1

Gómez_Serranillos, M.P.; Ortega, M.T.; Palomino O.M.; Carretero, M.E. Advances in Medicinal Plants with Antitumoral Activity pp 412_471. In: *Medicinal Plants. Biodiversity and Drugs*. 2012. Science Publishers. M. Rai, G.A. Cordell, J.L.Martinez, M. Marinoff, L. Rastrelli, Eds, Enfield, New Hampshire, EEUU. ISBN: 978_1_57808_000_0

Carretero, M.E.; Gómez_Serranillos, M.P.; Ortega, M.T.; Palomino O.M. Medicinal Plants used in Folk Medicine for Digestive Diseases in Central Spain, pp 361_387. In: Mahendra Rai, Deepak Acharya, José Luis Ríos, Eds. 2011. *Ethnomedicinal Plants*. Science Publishers Enfield, New Hampshire. ISBN:978_1_57808_696_2

Amo de Paz, G.; Raggio, P.; Gómez_Serranillos, MP.; Palomino, OM; González_Burgos, E.; Carretero, M.E.; Crespo, A. HPLC Isolation Of Antioxidant Constituents From *Xanthoparmelia* ssp. *J. Pharm. Biomed. Anal.* 2010, Doi 10.1016/j.jpba.2010.04.013

El_Naggar, T.; Gómez_Serranillos, M.P.; Palomino O.M.; Arce, C.; Carretero, M.E. *Nigella sativa* L. modulates the neurotransmitter amino acids release in neuronal culture *J. Biomed. Biotech.* 2010, Doi: 10.1155/2010/398312

Palomino OM, Varela F, Navarrete P, Gómez_Serranillos, M.P., Ortega T, Carretero, M.E., Cases M.A. Variation in the Essential Oil composition of *Rosmarinus officinalis* Collected from Different Spanish Locations in the Andalucía Region *Acta Horticulturae* 2010, 860, 249_253

González_Burgos, E.; Gómez_Serranillos, M.P.; Palomino, O.M.; Carretero, M.E. Aspectos botánicos y farmacológicos del género *Sideritis*. *Revista de Fitoterapia* 2009, 9(2), 133_145

Palomino, O. Gómez_Serranillos, M.P.; Carretero, M.E. Determinación del contenido de isoflavonas en medicamentos por cromatografía líquida de alta resolución. *Industria Farmacéutica* 2009, 147, 90_96

Gómez_Serranillos, M.P.; Martín, S.; Ortega, T.; Palomino O.M.; Prodanov, M.; Vacas, V.; Hernández, T.; Estrella, I.; Carretero, M.E. Study of red wine neuroprotection on astrocytes. *Plant Foods Hum Nutr* 2009, 64, 238_243

Palomino O.M.; Carretero, M.E.; Gómez_Serranillos, M.P.; Ortega, T. Taxonomía y organografía de las especies vegetales. Clasificación. Monografías, 3(2), pp. 53_78. In : Fundación UNED Ed. (2009) Programa Modular sobre Nutrición, Dietética, Plantas Medicinales y Homeopatía. Madrid, Spain.

Gómez_Serranillos, M.P.; Carretero, M.E.; Palomino O.M.; Ortega, T. Cultivo, recolección y procesamiento de plantas medicinales, 3(3), pp. 109_132. In : Fundación UNED Ed. 2009. Programa Modular sobre Nutrición, Dietética, Plantas Medicinales y Homeopatía. Madrid, Spain.

Carretero, M.E.; Gómez_Serranillos, M.P.; Ortega, T.; Palomino O.M. Tratamiento fitoterápico de las cefaleas, 6(2), pp. 155_174. In : Fundación UNED Ed. 2009. Programa Modular sobre Nutrición ,Dietética, Plantas Medicinales y Homeopatía. Madrid, Spain. Ortega, T.;

Carretero, M.E.; Gómez_Serranillos, M.P.; Palomino O.M. Plantas con acción reductora de la absorción de lípidos y azúcares, hipolipemiantes y antiateromatosas, hipoglucemiantes, uricosúricas. Tratamiento fitoterápico de las hiperlipidemias, hiperglucemias y uricosurias, 6(3), pp. 264_309. In : Fundación UNED Ed. 2009. Programa Modular sobre Nutrición ,Dietética, Plantas Medicinales y Homeopatía. Madrid, Spain.

Ortega, T.; Carretero, M.E.; Gómez_Serranillos, M.P.; Palomino O.M. Plantas coadyuvantes en los trastornos del sobrepeso: Plantas saciantes y disminuidoras de la absorción, plantas inhibidoras del apetito, plantas inhibidoras de la lipogénesis, plantas con actividad termogénica, plantas depurativas. Plantas para situaciones especiales, 6(3), pp. 310_358. In : Fundación UNED Ed. 2009. Programa Modular sobre Nutrición ,Dietética, Plantas Medicinales y Homeopatía. Madrid, Spain.

Carretero, M.E.; Palomino O.M.; Ortega, T.; Gómez_Serranillos, M.P. Tratamiento fitoterápico de la cistitis. Tratamiento y prevención de las litiasis y arenillas renales, 6(6), pp. 119_141. In : Fundación UNED Ed. 2009. Programa Modular sobre Nutrición ,Dietética, Plantas Medicinales y Homeopatía. Madrid, Spain.

Naval López, M.V.; Gómez_Serranillos Cuadrado, M.P.; Palomino Ruiz_Poveda, O.M.; Villar del Fresno, A.; Carretero Accame, M.E. Neuroprotective effect of individual ginsenosides on astrocytes primary culture. *Biochim et Biophys Acta General Subject* 2007, 1770(9), 1308_1316

Buendía, E; Palomino, O. Control de calidad de las plantas medicinales. Procesos de transformación de plantas en medicamentos, pp. 57_66. In: *Manual de Fitoterapia*. 2007. Elsevier_Masson, Madrid, Spain. ISBN: 978_84_458_1797_1

Palomino, O. Repercusión de la nueva normativa de complementos alimenticios sobre las especialidades farmacéuticas publicitarias *Industria Farmacéutica* 2003, 109: 55-65

Buendía, E; Palomino, O. Comercialización de plantas medicinales según el marco legal escogido *Industria Farmacéutica* 2002, 98: 102-8.

Buendía, E; Palomino, O. Plantas medicinales de calidad farmacéutica Ibérica, *Actualidad Tecnológica* 2000, 429: 199-203

Carretero, E; Gómez_Serranillos, MP; Slowing, K; Ortega, T; Buendía, E; Palomino, O; Quintela, JC; Martínez, C; Puerto, R. (2000) Plantas medicinales y fitoterapia: docencia, industria y dispensación *Industria Farmacéutica* 2000,

Palomino, O.M.; Gómez_Serranillos MP, Slowing K, Carretero, E.; Villar, A. Study of polyphenols in grape berries by reversed_phase high_performance liquid chromatography J. of Chromatogr A 2000, 870: 449-451

Palomino, O.M.; Gómez_Serranillos, M.P.; Slowing, K.; Carretero, M.E.; Villar, A.; Valderrama, M.; Álvarez_Sala, L.A.; Millán, J. La variabilidad en el contenido de antioxidantes de diversos vinos tintos y blancos como potencial condicionante de diversos efectos biológicos Arteriosclerosis 2000, 11(1): 35

Gómez_Serranillos MP; Carretero, E.; Slowing K; Palomino, O.M.; Villarrubia A; Villar A. HPLC quantitative analysis of Diterpenoids in Sideritis (Labiatae) Species. Phytotherapy Research 1998, 12: 101-3

Pascual, O; Gómez_Serranillos, M.P.; Slowing, K.; Palomino, O.M.; Carretero, M.E.; Villar, A. Nuevo método para el análisis de cis y trans resveratrol por HPLC en fase reversa. Ars Pharm 1998, 31: 215-8

Gómez_Serranillos MP; Palomino, O.M.; Carretero, E.; Villar A. Analytical study and analgesic activity of Oripavine from Papaver somniferum L. Phytotherapy Research 1998, 12: 346-9

Gómez_Serranillos MP; Palomino, O.M.; Carretero, E.; Villar A; Cases MA. A new HPLC method for the analysis of ginsenosides of Panax ginseng. Fitoterapia 1997, 6: 533-6

Gómez_Serranillos M.P.; Palomino O.M.; Villarrubia A.I.; Cases M.A.; Carretero E.; Villar A. Analysis of diterpenoids from Sideritis species by reversed-phase HPLC. J. of Chromatogr A. 1997, 778: 421-5

Palomino O.M.; Gómez_Serranillos M.P.; Carretero E.; Cases M.A. Variation in the Flavonoid content of Origanum x majoricum in different plant stages by HPLC. Planta Medica 1997, 63: 584

Palomino, O.M.; Gómez_Serranillos, M.P.; Slowing, K.; Carretero, M.E.; Villar, A. Estudio farmacognóstico preliminar de Carlina corymbosa L. Pharm Med 1996, 11: 153-4

Palomino O.M.; Söllhuber, M.; Carretero, E.; Villar, A. () Isoscutellarein_7_glucosyl (1_2) xyloside from different species of Sideritis. Phytochemistry 1996, 42(1): 101-2

Palomino O.M.; Gómez_Serranillos, P.; Carretero, E.; Villar, A. High_performance liquid chromatography of flavonoids from Sideritis species. J. of Chromatogr. A 1996, 731: 103-8

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Projects

Title: Crosstalk entre los astrocitos hipotalámicos y el tejido adiposo perivascular en el metabolismo energético y la función cardiovascular: impacto de modificaciones en la dieta Entidad financiadora: Ministerio de Ciencia, Innovación y Universidades (BFU2017_82565_C2_2_R) Dpto Farmacología, Farmacognosia y Botánica 2019_2022

Title: Filogenia molecular, sistemática y avances en la biología evolutiva de la familia líquénica Parmeliaceae (Ascomycota) Entidad financiadora: Ministerio de Ciencia e Innovación (CGL2013_42498_P) Dpto Biología Vegetal y Dpto Farmacología UCM. 2013 – 2017

Title: Updating a DNA barcoding method for identification of lichen species using Parmeliaceae as a model Ministry of Science and Innovation (CGL2010_21646) Department of Vegetal Biology, Department of Pharmacology, UCM. The Field Museum of Chicago From January 2009 until December 2012

Title: Evaluation of biological activities and valuation of bioactive components as quality markers of crude and processed pulses Ministry of Science and Technology (AGL2008_05673_C02_01) Department of Pharmacology UCM, CSIC, UAM

Title: Prospección, Recolección y Conservación de germoplasma, caracterización química, selección, estudios de propagación y cultivo ecológico en poblaciones silvestres de plantas aromáticas y medicinales de la flora española. Programa Sectorial I+D Agrario y Alimentario (INIA, MAPA) Instituto Nacional de Investigaciones Agrarias, MAPA. From January 2005 until December 2008

Title: Evaluation of biological activity of Spanish red wines and biodirected isolation of their active principles Ministry of Science and Technology From October 2006 until December 2007 Title: Improvement of medicinal and aromatic plants cultivation in unfavorable areas Programa Sectorial I+D Agrario y Alimentario (Project SC94_117, INIA, MAPA) Instituto Nacional de Investigaciones Agrarias, MAPA From October 2006 until December 2007

Title: Implantación en la Canaleja de una colección viva de especies y variedades autóctonas o naturalizadas preseleccionadas para su conservación y la potencial utilización de sus recursos filogenéticos Programa Sectorial I+D Agrario y Alimentario (Project RF94_029, INIA, MAPA) Instituto Nacional de Investigaciones Agrarias, MAPA From September 1999 until November 1999

Title: Harpagoside identification and quantification by HPLC in marketed simples Instituto de Terapias Biológicas S.L. Universidad_Empresa Department of Pharmacology, Faculty of Farmacia UCM From May 2007 until December 2007

Title: Study of natural methodology to improve Vinalopo grape resistance and analysis of its pharmacological properties Consejo Regulador de la Denominación de origen Vinalopó Department of Pharmacology, Faculty of Farmacia UCM From 1999 until 2001 Title: Resveratrol análisis in Vinalopo grape Consejo Regulador de la Denominación de origen Vinalopó Department of Pharmacology, Faculty of Farmacia UCM From February 1999 until May 1999

Title: HPLC analysis of resveratrol content in wines from La Mancha origin Consejo Regulador de la Denominación de origen La Mancha Department of Pharmacology, Faculty of Farmacia UCM From May 1997 until May 1999

Title: Quality control of marketed ginseng preparations EDOCUSA (Organización de Consumidores y Usuarios) Department of Pharmacology, Faculty of Pharmacy UCM From October 1995 until February 1996

Title: Quality control of marketed vegetal species for beverage infusions EDOCUSA (Organización de Consumidores y Usuarios) Department of Pharmacology, Faculty of Pharmacy UCM From January 1995 until April 1995

Memberships

Memberships:

- IUPHAR Mediterranean Group of Natural Products Pharmacology

- Sociedad Farmacéutica del Mediterráneo Latino

- Sociedad Española de Fitoterapia (SEFIT)

- Foreign member of the Commission of Medical Sciences of Polish Academy of Sciences Branch in Lublin (Academic Course 2013_2014)

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