Fecha del CVA	08/05/2018

Parte A. DATOS PERSONALES

Nombre y Apellidos	Monica Díaz Gavilán

A.1. Situación profesional actual

Categoría profesional	Profesora Titular de Universidad	Fecha inicio	2011
Palabras clave	Moléculas con actividad biológica, síntesis orgánica, hiperoxaluria primaria		

A.2. Formación académica (título, institución, fecha)

Licenciatura/Grado/Doctorado	Universidad	Año
DOCTORA EN FARMACIA	UNIVERSIDAD DE GRANADA	2005
LICENCIADA EN FARMACIA	UNIVERSIDAD DE GRANADA	2000
Certificate in Advanced English		
First Certificate in English		

A.3. Indicadores generales de calidad de la producción científica *(véanse instrucciones)*

Número de publicaciones: 24
Publicaciones totales en primer cuartil: 14
Artículos citados: 24
Número total de citas: 382
Media de citas por artículo: 15.92
Índice H: 13

Parte B. RESUMEN LIBRE DEL CURRÍCULUM

I have the expertise, training and leadership experience necessary to manage supervision duties in research projects, with Organic and Medicinal Chemistry profile. My career is based on both disciplines. Since the beginning of my PhD I have worked in organic synthesis of biologically active molecules. My PhD thesis dealt with the preparation of antitumor compounds and yielded 12 articles in international peer-reviewed journals . Two three-month predoctoral stays at the Universities of Perugia (Prof. Pelliciari) and Viena (Prof. Noe) allowed me to work on the development of neuroprotective agonists of glutamate and antitumoral antisense technology, respectively. As a postdoctoral Marie-Curie Fellow (University of Cambridge) I worked in Diversity Oriented Synthesis (DOS) and in the total synthesis of alkaloid myrrhine (Prof. D. Spring). Developing DOS libraries supposes a wide and complete training. During my predoctoral and postdoctoral periods I consolidated skills in synthesis, characterization and design of molecules. In 2009 I returned to Granada as an Assistant Professor where I started working on PH1 in collaboration with Prof. E. Salido (University of La Laguna). I have supervised three funded projects on this topic, first a European funded Marie-Curie Reintegration Grant, then an OHF Research Grant and finally a one-year research project funded by the University of Granada. This way I learnt the importance of collaborative environments and gained the ability to manage research. We have prepared active compounds in PH1 for which a patent has been applied. Our results are a positive motivation for me to work further in this topic. In 2016 I started collaboration with Prof. Sofia Salido. We have consolidated our efforts in the search of a pharmacological treatment against PH1. I have supervised 7 undergraduates, 4 Master students, 1 postdoctoral student and I am supervising a PhD thesis (due by September 2019). Also in Granada I have collaborated in other national and regional funded projects. I have been referee for the journal European Journal of Medicinal Chemistry.

Parte C. MÉRITOS MÁS RELEVANTES (ordenados por tipología)

C.1. Publicaciones (las 10 más relevantes en los últimos 10 años)

1. **Artículo científico**: Díaz-Gavilán M., Conejo-García A., Cruz-López O., Núñez M.C., Choquesillo-Lazarte D., González-Pérez J.M., Rodríguez-Serrano F., Marchal J.A., Aránega A., Gallo M.A., Espinosa A., Campos J.M. (2008). Synthesis and Anticancer Activity of (*R*,*S*)-9-(2,3-Dihydro-1,4-Benzoxathiin-3-ylmethyl)-9*H*-Purines. *ChemMedChem* **2008**, *3*(1), 127-135.
2. **Artículo científico**: Díaz-Gavilán, M., Gómez-Vidal, J.A., Rodríguez-Serrano, F., Marchal, J.A., Caba, O., Aránega, A., Gallo, M.A., Espinosa, A., Campos, J.M. Anticancer Activity of (1,2,3,5-Tetrahydro-4,1-Benzoxazepine-3-yl)-Pyrimidines and -Purines against the MCF-7 Cell Line: Preliminary cDNA Microarray Studies. *Bioorganic and Medicinal Chemistry Letters* **2008**, *18*(4), 1457-1460.
3. **Artículo científico**: Spandl, R.J.; Diaz Gavilan, M.; O'Connell, K.; Thomas, G.L.; Spring, D.R. Diversity-Oriented Synthesis. *The Chemical Record* **2008**, *8*, 129-142.
4. **Artículo científico**: Winkler, J.; Saadat, K.; Díaz-Gavilán, M.; Urban, E; Noe, C.R. Oligonucleotide Polyamine Conjugates: Influence of Length and Position of 2'-Attached Polyamines on Duplex Stability and Antisense Effect. *European Journal of Medicinal Chemistry* **2009**, *44*, 670-677.
5. **Artículo científico**: Galloway, W.R.J.D.; Díaz-Gavilán, M.; Isidro-Llobet, A.; Spring, D.R. Synthesis of Unprecedented Scaffold Diversity. . *Angewandte Chemie International Edition* **2009**, *48*(7), 1194-1196.
6. **Artículo científico**: Díaz-Gavilán, M.; Galloway, W.R.J.D.; O Connell, K.M.G.; Hodkingson, J.T.; Spring, D.R. Diversity-Oriented Synthesis of Bicyclic and Tricyclic Alkaloids. *Chemical Communications* **2010**, *60*(5), 776-778.
7. **Artículo científico**: Caba, O.; Díaz-Gavilán, M.; Rodríguez-Serrano, F.; Boulaiz, H.; Aránega, A.; Gallo M.A.; Marchal, J.A.; Campos, J.M. Anticancer activity and *c*DNA microarray studies of a (*RS*)-1,2,3,5-tetrahydro-4,1-benzoxazepine-3-yl]-6-chloro-9*H*-purine, and an acyclic (*RS*)-*O*,*N*-acetalic 6-chloro-7*H*-purine. *European Journal of Medicinal Chemistry* **2011**, *46*, 3802-3809.
8. **Artículo científico**: Caba, O.; Rodríguez-Serrano, F.; Díaz-Gavilán, M.; Conejo-García, A.; Ortiz, R.; Martínez-Amat, A.; Álvarez, P.; Gallo, M.A.; Campos, J.M.; Marchal, J.A.; Aránega, A. The selective cytotoxic activity in breast cancer cells by an anthranilic alcohol derived acyclic 5-fluorouracil *O*,*N*-acetal is mediated by endoplasmic reticulum stress-induced apoptosis. *European Journal of Medicinal Chemistry* **2012**, *50*, 376-382.
9. **Artículo científico**: O'Connell, K.M.G.; Díaz-Gavilán, M.; Galloway, W.R.J.D.; Spring, D.R. Two-directional synthesis as a tool for diversity oriented synthesis: Synthesis of alkaloid scaffolds. *Beilstein Journal of Organic Chemistry* **2012**, *8*, 850-860.
10. **Artículo científico**: Pérez-López, A.; González-Calderón, D.; Occorso, A.; Galindo-Ángel, J.; Domínguez-Seglar, J.; Tamayo, J.; Díaz-Gavilán, M.; Gómez-Vidal, J. Synthesis of L-Octaarginine through Microencapsulated Palladium-Catalyzed Allyl Ester Deprotection. *Synlett* **2014**, *25*(16), 2319–2322.

C.2. Patentes

1 Autores: Mónica Díaz Gavilán; José Antonio Gómez Vidal; María Dolores Moya Garzón; Eduardo Salido Ruiz; Cristina Martín Higueras; Miguel Xavier Fernandes.
Referencia cobertura nacional: P201730326
Referencia cobertura internacional: PCT/ES2018/070184
Fecha solicitud: 10-03-2017
Título: Compuestos para el Tratamiento de Enfermedades Causadas por la Acumulación de Oxalato.
Entidades titulares: Universidad de Granada y Universidad de La Laguna.
Empresas interesadas: Expresión de interés por parte de la empresa Orfan Biotech S.L.

2 Autores: José Antonio Gómez Vidal; Mónica Díaz Gavilán; Francisco Franco Montalbán; Francisco Morillas Márquez; Victoriano Corpas López; Joaquina Martín Sánchez; Margarita López-Viota Gallardo; Julián López-Viota Gallardo.
Referencia: P201630944-IPR-618.
Fecha solicitud: 20-02-2017
Título: Compuestos para el tratamiento de la leishmaniosis
Entidades titulares: Universidad de Granada.