UNIVERSIDAD DE GRANADA

Departamento de Química Farmacéutica y Orgánica

Investigación y desarrollo de fármacos (Drug design and development). Grupo CTS 130

Directora: Ana Conejo García.

Investigadores

- Juan Aznar Ramos
- Joaquín María Campos Rosa.
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- Meriem Chayah Ghaddab.
- Ana Conejo García.
- Olga Cruz López.
- José Manuel Espejo Román.
- María José Pineda de las Infantas y Villatoro.
- Soledad Romero Tamudo.

Líneas de investigación

- Diseño, síntesis y evaluación de la actividad biológica de inhibidores de la interacción ácido hialurónico y CD44 como compuestos antitumorales.
- Diseño y síntesis de nuevos inhibidores de colina quinasa con actividad antitumoral.
- Diseño y síntesis de compuestos antitumorales con estructura de purinas (e isósteros) unidas a heterociclos de 6 o 7 miembros fusionados a benceno.
- Diseño y síntesis de fármacos neuroprotectores.

Proyectos de investigación

1. Título: Sintesis de kinurenaminas con actividad neuroprotectora frente al daño

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mitocondrial inducido por el sistema NOS/NO. Entidad Financiadora: Instituto de Salud Carlos 111. PI021181

2. Título: Evaluación de kinurenaminas sinteticas como neuroprotectores frente al daño mitocondrial inducido por el sistema NOS/NO en parkinson experimental. Entidad Financiadora: CICYT (SAF2002-01688)

3. Título: Diseño, síntesis y evaluación biológica de nuevos inhibidores selectivos de mtNOS e iNOS. Entidad Financiadora: CICYT (SAF2005-07991-C02-02)

4. Título: Anillos benzofusionados O,N-acetálicos de siete y ocho miembros, obtenidos mediante síntesis en fase sólida, con actividad anticancerosa. Entidad Financiadora: Junta de Andalucía (Código del Proyecto: 00636, Proyecto de Excelencia)

5. Título: Design, synthesis and biological studies of novel 1,4-benzoxazepines as antitumour compounds; Entidad Financiadora: Unión Europea

6. Título: Convocatoria de infraestructura científico-tecnológica (2005-2006) Entidad Financiadora: Ministerio de Educación y Ciencia y FEDER

7. Título: Nuevos derivados antitumorales, benzo o pirido fusionados a heterociclos de siete miembros O,N-acetálicos unidos a bases pirimidínicas y púricas, y compuestos relacionables. Entidad financiadora: Instituto Carlos 111, FIS PI030225

8. Título: Nuevos fármacos gemelos anticancerosos O,N-acetálicos tetrahidrobenzoxazepínicos con bases pirimidínicas o púricas. Entidad financiadora: Instituto Carlos III, FIS PI041206

9. Título: Diseño, síntesis y evaluación biológica de nuevos inhibidores selectivos de mtNOS e iNOS. Entidad financiadora: Junta de Andalucía. (P06-CTS-01941)

10. Título: Nuevos heterociclos homoquirales de alto valor añadido obtenidos a partir de bencenos disustituidos en posición orto: binomio estereoquímica-actividad antitumoral. Entidad financiadora: Instituto Carlos 111, FIS PI070227

11. Título: Choline Kinase: an important target for cancer, malaria and filariasis. Entidad financiadora: Ministerio de Ciencia e Innovación. (HD2008-0028)

12. Título: Diseño de fármacos con actividad antiproliferativa: nuevos inhibidores mejorados de colina quinasa Entidad financiadora: Junta de Andalucía (P07-CTS-

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032190).

13. Título: Diseño y síntesis de nuevos inhibidores mejorados de colina quinasa como potenciales fármacos con actividad antiproliferativa Entidad financiadora: Ministerio de Ciencia e Innovación (SAF2009-11955).

14. Título: Diseño y síntesis de nuevos heterociclos oxigenados de siete y ocho miembros benzofusionados como fármacos con actividad antiproliferativa frente a cáncer de mama. Entidad financiadora: Ministerio de Ciencia e Innovación (SAF2010-18263).

15. Título: nuevos heterociclos homoquirales de alto valor añadido obtenidos a partir de bencenos disustituídos en posición orto: binomio estereoquímica-actividad antitumoral. Instituto Carlos III, FIS PI070227.

16. TITULO: CHOLINE KINASE: AN IMPORTANT TARGET FOR CANCER, MALARIA AND FILARIASIS. ACCIONES INTEGRADAS HISPANO-ALEMANAS, CONVOCATORIA 2008. MINISTERIO DE CIENCIA E INNOVACIÓN. Código del Proyecto: HD2008-0028.

17. TITULO: IX JORNADAS DE LA SOCIEDAD ESPAÑOLA DE QUÍMICA TERAPÉUTICA. ACCIONES COMPLEMENTARIAS DENTRO DEL SUBPROGRAMA DE ACCIONES COMPLEMENTARIAS A PROYECTOS DE INVESTIGACIÓN FUNDAMENTAL NO ORIENTADA. CONVOCATORIA 2010. MINISTERIO DE CIENCIA E INNOVACIÓN. Referencia: SAF2010-08941-E (subprograma).

18. TITULO: INNOVADORES O,N-ACETALES ACÍCLICOS DE 5-FLUOROURACILO Y DERIVADOS PURÍNICOS DI- Y TRI-SUSTITUIDOS COMO HERRAMIENTAS FARMACOLÓGICAS PARA EL TRATAMIENTO DE CÉLULAS MADRE CANCEROSAS. INSTITUTO CARLOS III, FIS PI10/00592.

19. TITULO: IX JORNADAS DE LA SOCIEDAD ESPAÑOLA DE QUÍMICA TERAPÉUTICA. ACTIVIDAD CIENTÍFICA DE LA JUNTA DE ANDALUCÍA (La Resolución corresponde a la Secretaría General de Universidades, Investigación y Tecnología de 10 de marzo de 2011 (BOJA de 5 de abril de 2011). Referencia: fecha 5 de abril de 2011 y referencia /905/11 del Vicerrectorado de Política Científica e Investigación, Servicio de Gestión de Investigación.

20. TITULO: PROGRAMA CIÉNCIA SEM FRONTEIRAS – BOLSAS NO PAÍS MODALIDADE. PESQUISADOR VISITANTE ESPECIAL – PVE. CHAMADA DE PROJETOS Nº 03/2014. COVERED AREA: Drugs. MEC/MCTI/CAPES/CNPq/FAPs

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(Brasil).

21. TITULO: Desarrollo de fármacos frente a células madre tumorales (CSCs) mediante cribado de librerías sintéticas utilizando GPCRs, quinasas y la interacción calcineurina-NFAT como dianas. SECRETARÍA DE ESTADO DE INVESTIGACIÓN, DESARROLLO E INNOVACIÓN SECRETARÍA GENERAL DE CIENCIA, TECNOLOGÍA E INNOVACIÓN DIRECCIÓN GENERAL DE INNOVACIÓN Y COMPETITIVIDAD SUBDIRECCIÓN GENERAL DE COLABORACIÓN PÚBLICO-PRIVADA. (RTC-2015-3386-1).

22. TITULO: Mejora de la actividad anticancerosa del bozepinib, bozinib y derivados, mediante la introducción del grupo trifluorometilo . Junta de Andalucía . (CS2016.1).

23. TITULO: Small molecules with anti-angiogenic effect. The Granada Research of Excellence Initiative on BioHealth (GREIB)_START-UP PROJECTS FOR YOUNG RESEARCHERS. the Campus of International Excellence of the Ministry of Science and Innovation (Class B, R+D+I – Top ResearchAreas) GREIB.PYR_2011_15. (2011 HASTA 2012)

24. TITULO: “Búsqueda de nuevos fármacos antimaláricos: Diseño, Síntesis y Evaluación Biológica de nuevos compuestos como potenciales inhibidores de la colina quinasa en Plasmodium falciparum”. CEI-Biotic UGR-Granada(22/05/ 2013 HASTA 31/12/2013).

25. TITULO: Pequeñas moléculas con actividad antiprolifertiva y antiangiogénica . Consejería de Innovación Ciencia y Empleo de la Junta de Andalucía Proyectos de Excelencia. (2014 HASTA /2017).

Patentes

1. Autores: Juan Carlos Lacal; Joaquín María Campos Rosa; Miguel Ángel Gallo Mezo; Antonio Espinosa Úbeda; Título: Derivados de piridinio y quinolinio. Patente solicitud nº: P200400072 (14/01/2004)

2. Autores: Juan Carlos Lacal; Joaquín María Campos Rosa; Miguel Ángel Gallo Mezo; Antonio Espinosa Úbeda; Título: Derivados de piridinio y quinolinio. Patente solicitud nº: W0506842A 1 (28/07/2005)

3. Autores: Antonio Espinosa Úbeda; Darío Acuña Castroviejo; Miguel Ángel Gallo Mezo; Antonio José Entrena Guadix; Encarnación Camacho Quesada; Germaine

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Escames Rosa; María Dora Carrión Peregrina; Luisa Carlota López Cara: Título: Inhibidores de la óxido nítrico sintasa (NOS) con actividad neuroprotectora. Patente solicitud nº: P200601917 (07/07/2006)

4. Autores: Antonio Espinosa Ubeda; Darío Acuña Castroviejo; Miguel Ángel Gallo Mezo; Antonio José Entrena Guadix; Encarnación Camacho Quesada; Germaine Escames Rosa; María Dora Carrión Peregrina; Luisa Carlota López Cara: Título: 3-Benzoilpirazoles inhibidores de la óxido nítrico sintasa (NOS) con actividad neuroprotectora. Patente solicitud nº: P200702478 (07/07/2006)

5. Autores: Joaquín María Campos Rosa; Antonio Espinosa Ubeda; Miguel Ángel Gallo Mezo; José Antonio Gómez Vidal; María Del Carmen Núñez Carretero; Antonia Aránega Jiménez; Título: (2,3-Dihidro-5H-1 ,4-benzodiheteroepin-3-il)purinas con actividad antitumoral; Patente solicitud nº: P0601538 (24/05/2006)

6. Autores: Ana Conejo García; Luisa Carlota López Cara; Juan Antonio Marchal Corrales; Fernando Rodríguez Serrano; Miguel Ángel Gallo Mezo; Houria Boulaiz ; Antonio Espinosa Úbeda; Joaquín María Campos Rosa; Antonia Aránega Jiménez; Título: Nuevas (RS)-7- ó 9-(1 ,2,3,5-tetrahidro-4, 1-benzoxazepin-3-il)-7H ó 9H-purinas con actividad antitumoral; Patente solicitud nº: P200802431 (07/08/2008).

7. Autores: Marchal Corrales, Juan Antonio; Aránega Jiménez, Antonia; Conejo García, Ana; García Chaves, María Ángeles; Cruz López, Olga; Boulaiz, Houria; Rodríguez Serrano, Fernando; Cativiela Marín, Carlos; Perán Quesada, Macarena; Jiménez Sanz, Ana Isabel; García Ruiz, Juan Manuel; Choquesillo Lazarte, Duane; Campos Rosa, Joaquín María. TITULO: Enantiómeros de derivados benzoheteroepínicos y su uso como agentes anticancerígenos. Patente solicitud nº: P201030415, (22/03/2010).

8. AUTORES: Gamarro Conde, Francisco; Campos Rosa, Joaquín María; Castanys Cuello, Santiago; Gómez Pérez, Verónica; García Hernández, Raquel; Manzano González, José Ignacio. TITULO: Derivados ciclofánicos de bis-piridinio como fármacos antiprotozoarios. Nº DE REGISTRO: P201231534, 5 de octubre de 2012.

9. AUTORES: Campos Rosa, Joaquín M.; Conejo García, Ana; Marchal Corrales, Juan Antonio; Morales Marín, Fátima; Morata Tarifa, Cynthia; Ramírez Rivera, Alberto. TÍTULO: Sulfonamidas derivadas de aminas secundarias con grupos 1,3-dioxolanilalquílicos y fenilmetilpurínicos, y su utilización como agentes

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anticancerígenos. Nº DE REGISTRO: P201430048, 20 de enero de 2014.

10. AUTORES: Campos Rosa, Joaquín M; Marchal Corrales, Juan A., García Rubiño, Mª Eugenia, Morata Tarifa, Cynthia, Ramírez Rivera, Alberto. TÍTULO: BENZO-HETEROCICLOS DE SEIS MIEMBROS CON ÁTOMOS DE OXÍGENO Y NITRÓGENO CON ACTIVIDAD ANTITUMORAL. P201630714. 31/05/2016.

11. Autores: Molina Pineda de las Infantas, Ignacio; Torres Rusillo, Sara; Fernández Rubio, Pablo; Pineda de las Infantas y Villatoro, Maria José; Diaz Mochón Juan José y Unciti-Broceta, Asier. Título: Derivados de purina como inhibidores de DAPK-1. N. de solicitud: P201400229

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48, 8174-8181

7. J. M. Campos, R. M. Sánchez-Martín, A. Conejo-García, A. Entrena, M. A. Gallo, A. Espinosa. (Q)SAR Studies to Design New Human Choline Kinase Inhibitors as Antiproliferative Drugs. Curr. Med. Chem., 2006, 13, 1231-1248

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