

# SERGIO MARTINEZ RODRIGUEZ

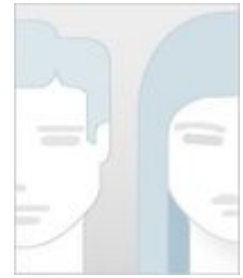
Grupo de Investigación: ENDOCRINOLOGIA Y METABOLISMO (Cod.: CTS202)

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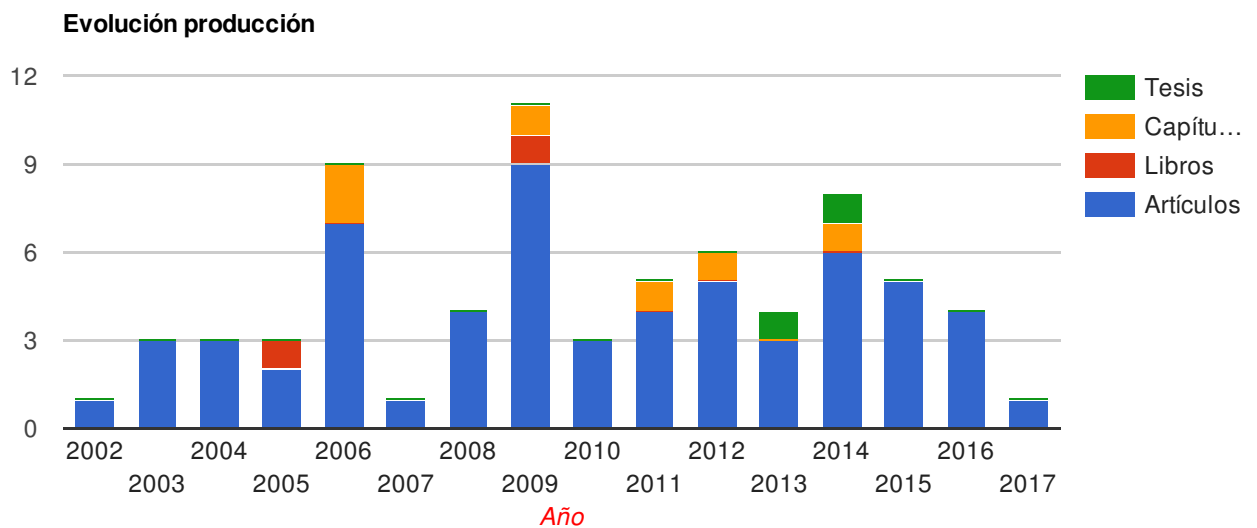
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Ficha del Directorio

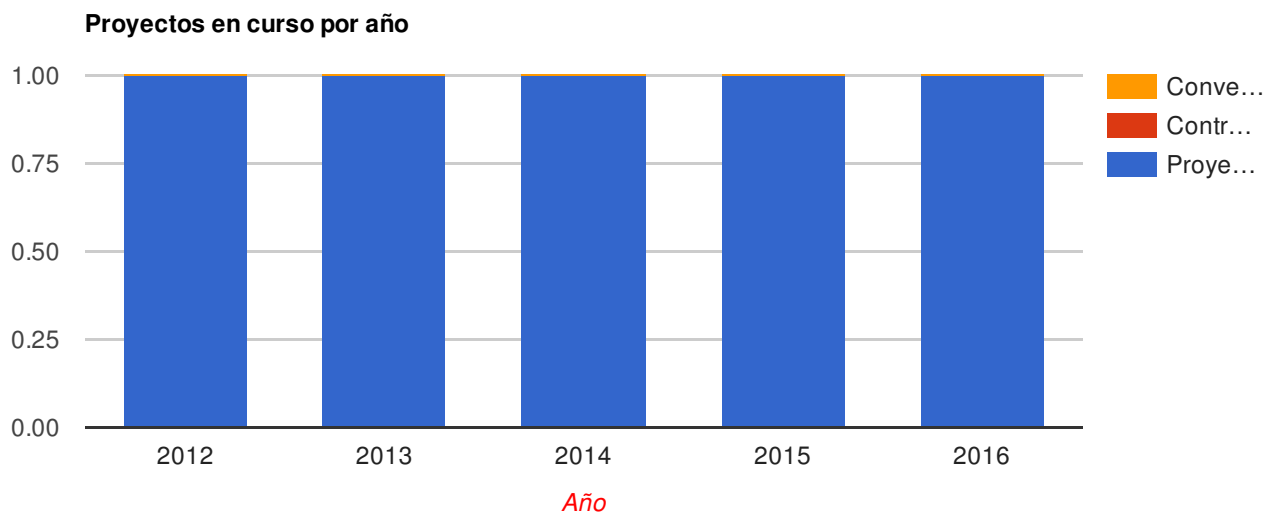
## Producción 71

Artículos (61) Libros (2) Capítulos de Libros (6) Tesis dirigidas (2)



## Proyectos dirigidos 1

Proyectos (1) Contratos (0) Convenios (0)



## Actividades 0

Titulo publicación	Fuente	Tipo	Fecha
De novo active sites for resurrected precambrian enzymes	Nature communications	Articulo	2017
Engineering ancestral protein hyperstability	Biochemical journal	Articulo	2016
Human coa3 is an oligomeric highly flexible protein in solution	Biochemistry (easton)	Articulo	2016
New crystal form of human ubiquitin in the presence of magnesium	Acta crystallographica. section f: structural biology communications	Articulo	2016
Selection for protein kinetic stability connects denaturation temperatures to organismal temperatures and provides clues to archaean life	Plos one	Articulo	2016
Biochemical and mutational characterization of n-succinyl-amino acid racemase from geobacillus stearothermophilus cect49	Molecular biotechnology	Articulo	2015
Crystal structure of the first ww domain of human yap2 isoform	Journal of structural biology	Articulo	2015
Enzymatic dynamic kinetic resolution of racemic n-formyl- and n-carbamoyl-amino acids using immobilized l-n-carbamoylase and n-succinyl-amino acid racemase.	Applied microbiology and biotechnology	Articulo	2015
Mcclec, a robust and stable enzymatic based microreactor platform	Lab on a chip	Articulo	2015
Structure of the c-src-sh3 domain in complex with a proline-rich motif of ns5a protein from the hepatitis c virus.	Journal of structural biology	Articulo	2015
Amidohydrolase process: expanding the use of l-n-carbamoylase/n-succinyl-amino acid racemase tandem for the production of different optically pure l-amino acids	Process biochemistry	Articulo	2014
Biochemical and mutational studies of allantoinase from bacillus licheniformis cect20t	Biochimie	Articulo	2014
Cloning, expression, purification, crystallization and preliminary x-ray characterization of allantoinase from bacillus licheniformis atcc 14580	Acta crystallographica. section f: structural biology communications	Articulo	2014
Electrostatic effects in the folding of the sh3 domain of the c-src tyrosine kinase: ph dependence in 3d-domain swapping and amyloid formation	Plos one	Articulo	2014
Producción enzimática de l-aminoácidos ópticamente puros mediante resolución cinética dinámica	Universidad de almería. química y física	Tesis doctoral	2014
Synergies of chemistry and biochemistry for the production of beta-amino acids	Cascade biocatalysis	Capítulo de libro	2014
Thermal and ph stability of the b-phycoerythrin from the red algae porphyridium cruentum	Food biophysics	Articulo	2014
Biochemical and mutational analysis of allantoinase from bacillus licheniformis cect 20t	Biochimie	Articulo	2014
Crystallization of the higba2 toxin-antitoxin complex from vibrio cholerae	Acta crystallographica. section f: structural biology communications	Articulo	2013
Mechanism of action of a janus-faced single-domain protein inhibitor simultaneously targeting two peptidase classes	Chemical science	Articulo	2013
Métodos biotecnológicos para la producción de diferentes alfa y beta aminoacidos mediante cascadas quimioenzimaticas	Universidad de almería. química y física	Tesis doctoral	2013
The histidine-phosphocarrier protein of the phosphoenolpyruvate: sugar phosphotransferase system of bacillus sphaericus self-associates	Plos one	Articulo	2013
Engineering cyclic amidases for non-natural amno acids synthesis	Unnatural amino acids. methods and protocols	Capítulo de libro	2012
Mutational and structural analysis of l-n-carbamoylase reveals new insights into a peptidase m20/m25/m40 family member	Journal of bacteriology	Articulo	2012

New biocatalytic route for the production of enantioenriched $\beta$ -alanine derivatives starting from 5- and 6-monosubstituted dihydrouracils	Process biochemistry	Articulo	2012
Peptides as inhibitors of the first phosphorylation step of the streptomyces coelicolor phosphoenolpyruvate: sugar phosphotransferase system	Biochemistry (easton)	Articulo	2012
Stability and binding of the phosphorylated species of the n-terminal domain of enzyme i and the histidine phosphocarrier protein from the streptomyces coelicolor phosphoenolpyruvate:sugar phosphotransferase system.	Archives of biochemistry and biophysics	Articulo	2012
Ph dependent structural conformations of b-phycoerythrin from porphyridium cruentum	The febs journal	Articulo	2012
Biochemical and mutational studies of the bacillus cereus cect 5050t formamidase support the existence of a c-e-e-k tetrad in several members of the nitrilase superfamily	Applied and environmental microbiology	Articulo	2011
Biochemical and mutational studies of the bacillus cereus cect 5050t formamidase	Applied and environmental microbiology	Articulo	2011
N-carbamoyl-beta-alanine amidohydrolase from agrobacterium tumefaciens c58: a promiscuous enzyme for the production of amino acids	Journal of chromatography. b, biomedical sciences and applications	Articulo	2011
Natural occurrence and industrial applications of d-amino acids: an overview	D-amino acids in chemistry, life science and biotechnology	Capítulo de libro	2011
The plasticity of the $\beta$ -trefoil fold constitutes an evolutionary platform for protease inhibition.	Journal of biological chemistry	Articulo	2011
Evaluation of substrate promiscuity of an l-carbamoyl amino acid amidohydrolase from geobacillus stearothermophilus cect43evaña	Biotechnology progress	Articulo	2010
Structure of dihydropyrimidinase from sinorhizobium meliloti cect4114: new features in an amidohydrolase family member	Journal of structural biology	Articulo	2010
The n-terminal domain of the enzyme i is a monomeric well-folded protein with a low conformational stability and residual structure in the unfolded state.	Protein engineering, design & selection	Articulo	2010
Coupling of domain swapping to kinetic stability in a thioredoxin mutant	Journal of molecular biology	Articulo	2009
General strategy to humanize a camelid single-domain antibody and identification of a universal humanized nanobody scaffold.	Journal of biological chemistry	Articulo	2009
Hydantoin racemase: a key enzyme for th production of optically pure alfa-amino acids	Modern biocatalysis:stereoselective and environmentally friendly reactions	Capítulo de libro	2009
Inhibitory effect of different product analogues on $\beta$ -alanine synthase: a thermodynamic and fluorescence analysis	Journal of chemical thermodynamics	Articulo	2009
Metal-triggered changes in the stability and secondary structure of a tetrameric dihydropyrimidinase: a biophysical characterization	Biophysical chemistry	Articulo	2009
Potential application of n-carbamoyl-beta-alanine amidohydrolase from agrobacterium tumefaciens c58 for beta-amino acid production	Applied and environmental microbiology	Articulo	2009
Racemization study on different n-acetyl amino acids by a recombinant n-succinyl amino acid racemase from geobacillus kaustophilus cect4264	Process biochemistry	Articulo	2009
Reforma de la ley universitaria i: ley orgánica y ley andaluza de universidades	Sapientia	Articulo	2009
Reforma de la ley universitaria ii: ley orgánica y ley andaluza de	Sapientia	Articulo	2009

universidades	Sapientia	Artículo	2009
Structure and conformational stability of a tetrameric thermostable n-succinylamino acid racemase	Biopolymers	Artículo	2009
Videos de apoyo a la enseñanza en bioquímica y biología molecular	Universidad de almería, servicio de publicaciones	Libros	2009
Crystallization and preliminary crystallographic studies of an active-site mutant hydantoin racemase from sinorhizobium meliloti cect4114	Acta crystallographica. section f: structural biology communications	Artículo	2008
Crystallization and preliminary crystallographic studies of the recombinant l-n-carbamoylase from geobacillus stearothermophilus cect43	Acta crystallographica. section f: structural biology communications	Artículo	2008
Nonspecific base recognition mediated by water bridges and hydrophobic stacking in ribonuclease i from escherichia coli	Protein science	Artículo	2008
Optically pure &#945;-amino acids production by the &quot;hydantoinase process&quot;		Artículo	2008
Recombinant polycistronic structure of hydantoinase process genes in escherichia coli for the production of optically pure d-amino acids.	Applied and environmental microbiology	Artículo	2007
Activity measurement of hydantoin racemase enzyme: a key for the production of optically pure d-amino acids	D-amino acids; a new frontier in amino acids and protein research ¿ practical methods and protocols	Capítulo de libro	2006
Binding studies of hydantoin racemase from sinorhizobium meliloti by calorimetric and fluorescence analysis	Biochimica et biophysica acta. proteins and proteomics	Artículo	2006
Crystallization and preliminary crystallographic studies of the recombinant dihydropyrimidinase from sinorhizobium meliloti cect4114	Acta crystallographica. section f: structural biology communications	Artículo	2006
Enzymatic activity assay of d-hydantoinase by isothermal titration calorimetry. determination of the thermodynamic activation parameters for the hydrolysis of several substrates	Journal of biochemical and biophysical methods	Artículo	2006
Optimisation of two recombinant whole cell systems for teh production of optically pure d-amino cadis	Modern multidisciplinary applied microbiology	Capítulo de libro	2006
Screening of autolytic yeast strains for production of l-amino acids: papers from the 1st international conference on environmental, industrial and applied microbiology (biomicroworld-2005)	Enzyme and microbial technology	Artículo	2006
Site-directed mutagenesis indicates an important role of cysteines 76 and 181 in the catalysis of hydantoin racemase from sinorhizobium meliloti	Protein science	Artículo	2006
Screening of autolytic yeast strains for production of l-amino acids	Enzyme and microbiol technology	Artículo	2006
Thermodynamic and mutational studies of l-n-carbamoylase from sinorhizobium meliloti cect 4114 catalytic centre.	Biochimie	Artículo	2006
Influence of sequential yeast mixtures on wine fermentation	International journal of food microbiology	Artículo	2005
Molecular cloning and biochemical characterization of l-n-carbamoylase from sinorhizobium meliloti cect4114	Journal of molecular microbiology and biotechnology	Artículo	2005
Obtención de d-aminoácidos ópticamente puros a partir de un sistema recombinante: caracterización de las enzimas involucradas en el proceso		Libros	2005
Biochemical characterization of a novel hydantoin racemase from agrobacterium tumefaciens c58	Biochimie	Artículo	2004
Molecular characterization and oenological properties of wine yeasts isolated during spontaneous fermentation of six varieties	Food microbiology	Artículo	2004

of grape must			
Molecular cloning, purification, and biochemical characterization of hydantoin racemase from the legume symbiont sinorhizobium meliloti cect 4114	Applied and environmental microbiology	Articulo	2004
Catalytic analysis of a recombinant d-hydantoinase from agrobacterium tumefaciens	Biotechnology letters	Articulo	2003
Contribution of different natural yeasts to the aroma of two alcoholic beverages	World journal of microbiology and biotechnology	Articulo	2003
Overexpression and characterization of hydantoin racemase from agrobacterium tumefaciens c58	Biochemical and biophysical research communications	Articulo	2003
Complete conversion of d,l-5-monosubstituted hydantoins with a low velocity of chemical racemization into d-amino acids using whole cells of recombinant escherichia coli	Biotechnology progress	Articulo	2002

	<b>Título proyecto</b>	<b>Tipo</b>	<b>Inicio</b>	<b>Fin</b>
1	Biomimetic radical chemistry. cost action cm1201.	Proyecto	12/6/12	12/5/16

## Actividades 0

<b>Título actividad</b>	<b>Fuente</b>	<b>Tipo</b>	<b>Fecha</b>
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## Colaboradores

- JOSE ANTONIO GAVIRA GALLARDO (8)
- JUAN MANUEL GARCIA RUIZ (4)
- JOSE MANUEL SANCHEZ RUIZ (3)
- Valeria Alejandra Risso Dirazar (3)
- BEATRIZ IBARRA MOLERO (2)
- LUIS ANTONIO GONZALEZ RAMIREZ (2)
- MARIA LUISA ROMERO ROMERO (2)
- M<sup>a</sup> TERESA CONEJERO MURIEL (2)
- FRANCISCO SANTOYO GONZALEZ (1)
- IRENE LUQUE FERNÁNDEZ (1)
- ISAAC RODRÍGUEZ RUIZ (1)
- MARIANO ORTEGA MUÑOZ (1)