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Grupo de Investigación: **BIOMOLECULAS** (Cod.: BIO223)

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Citas en Google Scholar: https://scholar.google.es/citations?user=7Jt_SQgAAAAJ&hl=es

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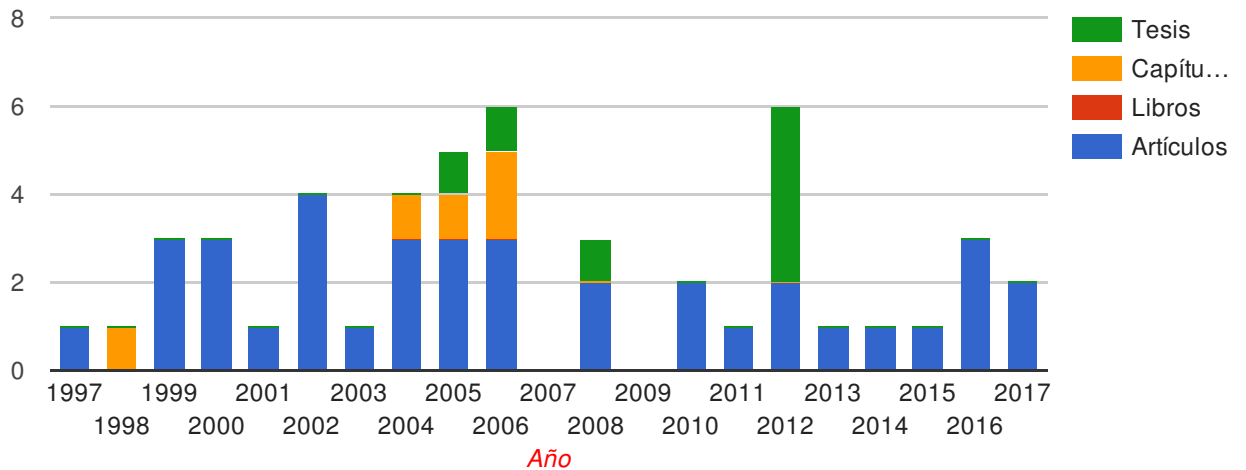


Ficha del Directorio

Producción 49

Artículos (37) Libros (0) Capítulos de Libros (5) Tesis dirigidas (7)

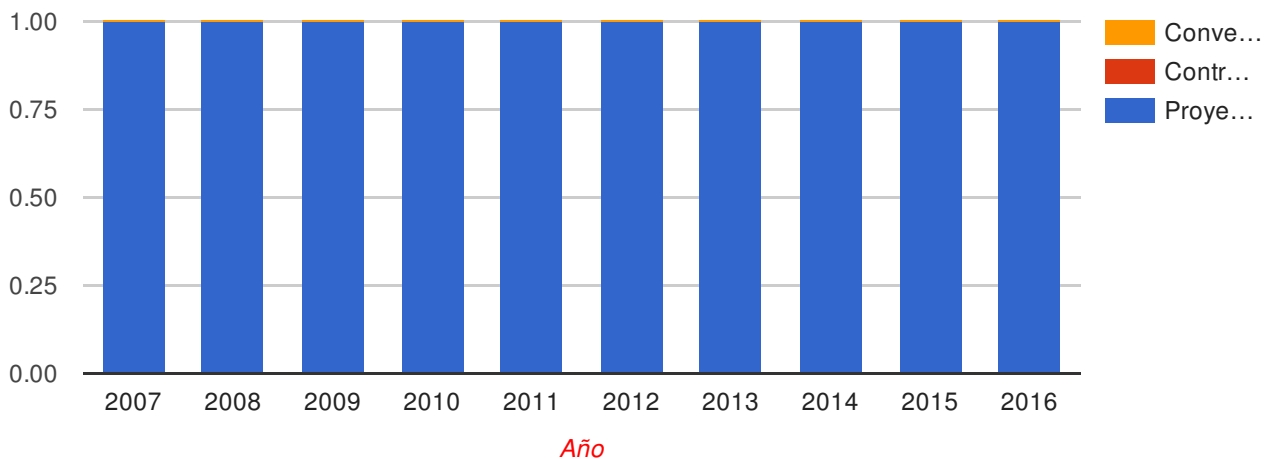
Evolución producción



Proyectos dirigidos 2

Proyectos (2) Contratos (0) Convenios (0)

Proyectos en curso por año



Actividades 0

| Titulo publicación | Fuente | Tipo | Fecha |
|---|---|-------------------|-------|
| Fast folding and slow unfolding of a resurrected precambrian protein | Proceedings of the national academy of sciences of the united states of america | Articulo | 2017 |
| Using resurrected ancestral proviral proteins to engineer virus resistance | Cell reports | Articulo | 2017 |
| Engineering ancestral protein hyperstability | Biochemical journal | Articulo | 2016 |
| Modern analysis of protein folding by differential scanning calorimetry | Methods in enzymology | Articulo | 2016 |
| Selection for protein kinetic stability connects denaturation temperatures to organismal temperatures and provides clues to archaean life | Plos one | Articulo | 2016 |
| Mutational studies on resurrected ancestral proteins | Molecular biology and evolution | Articulo | 2015 |
| Identification of structural basis of thermal lability of a virus provides a rationale for improved vaccines | | Articulo | 2014 |
| Conservation of protein structure over four billion years | Structure | Articulo | 2013 |
| Bibliotecas combinatoriales enfocadas en ingeniería de proteínas: aplicaciones en termoestabilización, promiscuidad y diseño de sitios activos. | | Tesis doctoral | 2012 |
| How many ionizable groups can sit on a protein hydrophobic core? | Proteins: structure, function, and bioinformatics | Articulo | 2012 |
| Modulación mutacional de proteínas: estudios acerca de cooperatividad, puentes disulfuro diseñados, proteínas ancestrales resucitadas y catálisis enzimática mediante técnicas de molécula individual | Universidad de granada, españa | Tesis doctoral | 2012 |
| Modulación mutacional de proteínas: ingeniería de proteínas morfo genéticas de hueso y enzimas ancestrales resucitadas. | | Tesis doctoral | 2012 |
| Probing the mutational interplay between primary and promiscuous protein functions: a computational-experimental approach | Plos computational biology | Articulo | 2012 |
| Proteínas ancestrales: reconstrucción y caracterización energética, funcional y estructural. | | Tesis doctoral | 2012 |
| Highly anomalous energetics of protein cold denaturation linked to folding-unfolding kinetics | Plos one | Articulo | 2011 |
| Proteolytic scanning calorimetry: a novel methodology that probes the fundamental features of protein kinetic stability | Biophysical journal | Articulo | 2010 |
| Using multi-objective computational design to extend protein promiscuity. | Biophysical chemistry | Articulo | 2010 |
| Beyond lumry-eyring: an unexpected pattern of operational reversibility/irreversibility in protein denaturation | Proteins: structure, function, and bioinformatics | Articulo | 2008 |
| Energética, cinética y evolución de proteínas: implicaciones en diseño molecular | Universidad de granada. química física | Tesis doctoral | 2008 |
| Large-scale modulation of thermodynamic protein folding barriers linked to electrostatics | Proceedings of the national academy of sciences of the united states of america | Articulo | 2008 |
| A simple tool to explore the distance distribution of correlated mutations in proteins | Biophysical chemistry | Articulo | 2006 |
| Differential scanning calorimetry of proteins: an overview and some recent developments | Advanced techniques in biophysics | Capítulo de libro | 2006 |
| Differential scanning calorimetry: the statistical thermodynamics analysis of protein folding/unfolding | Protein folding and misfolding | Capítulo de libro | 2006 |
| Energetic and structural consequences of desolvation/solvation barriers to protein folding/unfolding assessed from experimental | Biophysical journal | Articulo | 2006 |

| unfolding rates | | | |
|---|---|-------------------|------|
| Natural selection for kinetic stability is a likely origin of correlations between mutational effects on protein energetics and frequencies of amino acid occurrences in sequence alignments. | Journal of molecular biology | Articulo | 2006 |
| Relación entre estabilidad, estructura y evolución de proteínas: estudios mutacionales, termodinámicos, cinéticos y cristalográficos | Universidad de granada. química física | Tesis doctoral | 2006 |
| A stability pattern of protein hydrophobic mutations that reflects evolutionary structural optimization | Biophysical journal | Articulo | 2005 |
| Efecto de las mutaciones en la estabilidad de proteínas: aspectos electrostáticos y evolutivos | Universidad de granada. química física | Tesis doctoral | 2005 |
| Facultad de ciencias. titulación de ingeniero químico | Orientación y tutoría en la universidad de granada | Capítulo de libro | 2005 |
| Plan de acción tutorial para primer curso de ingeniero químico | Enseñanza de las ciencias | Articulo | 2005 |
| The effect of charge-introduction mutations on e. coli thioredoxin stability | Biophysical chemistry | Articulo | 2005 |
| Linkage between temperature and chemical denaturant effects on protein stability: the interpretation of calorimetrically-determined m values | Biocalorimetry 2: applications of calorimetry in the biological sciences | Capítulo de libro | 2004 |
| Relation between protein stability, evolution and structure, as probed by carboxylic acid mutations | Journal of molecular biology | Articulo | 2004 |
| Salt-bridges can stabilize but do not accelerate the folding of the homodimeric coiled-coil peptide gcn4-p1 | Journal of molecular biology | Articulo | 2004 |
| The efficiency of different salts to screen charge interactions in proteins: a hofmeister effect? | Biophysical journal | Articulo | 2004 |
| Dissecting structural and electrostatic interactions of charged groups in alpha-sarcin. an nmr study of some mutants involving the catalytic residues | Biochemistry (easton) | Articulo | 2003 |
| Electrostatic interactions in ubiquitin: stabilization of carboxylates by lysine amino groups | Biochemistry (easton) | Articulo | 2002 |
| Genetic algorithm to design stabilizing surface-charge distributions in proteins | The journal of physical chemistry b | Articulo | 2002 |
| L-phenylalanine binding and domain organization in human phenylalanine hydroxylase: a differential scanning calorimetry study | Biochemistry (easton) | Articulo | 2002 |
| Ph corrections in chemical denaturant solutions | Analytical biochemistry | Articulo | 2002 |
| Mapping the energy surface for the folding reaction of the coiled-coil peptide gcn4-p1 | Biochemistry (easton) | Articulo | 2001 |
| Lower kinetic limit to protein thermal stability: a proposal regarding protein stability in vivo and its relation with misfolding diseases | Proteins: structure, function, and bioinformatics | Articulo | 2000 |
| Preformed secondary structure drives the association reaction of gcn4-p1, a model coiled-coil system | Journal of molecular biology | Articulo | 2000 |
| The sarcosine effect on protein stability: a case of nonadditivity? | Protein science | Articulo | 2000 |
| Cold denaturation of ubiquitin | Biochimica et biophysica acta. protein structure and molecular enzymology | Articulo | 1999 |
| Engineering a thermostable protein via optimization of charge-charge interactions on the protein surface | Biochemistry (easton) | Articulo | 1999 |
| Thermal versus guanidine-induced unfolding of ubiquitin. an analysis in terms of the contributions from charge-charge interactions to protein stability | Biochemistry (easton) | Articulo | 1999 |
| Characterizing cosolvent effects on protein stability: cold-denaturation of ubiquitin in the presence of guanidine | Stability and stabilization of biocatalysts. | Capítulo de libro | 1998 |
| Are there equilibrium intermediate states in the urea-induced | | | |

| | Título proyecto | Tipo | Inicio | Fin |
|---|--|-------------|---------------|------------|
| 1 | Nuevas estrategias de optimización de proteínas para aplicaciones biotecnológicas y biomédicas | Proyecto | 3/1/11 | 3/9/16 |
| 2 | Diseño y obtención de proto-enzimas artificiales: aplicaciones en catálisis enzimática y terapia molecular | Proyecto | 4/11/07 | 3/31/10 |

Actividades 0

| Título actividad | Fuente | Tipo | Fecha |
|-------------------------|---------------|-------------|--------------|
|-------------------------|---------------|-------------|--------------|

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- RAUL PEREZ JIMENEZ (9)
- DAVID RODRIGUEZ LARREA (5)
- ISABEL MARIA PLAZA DEL PINO (5)
- JOSE ANTONIO GAVIRA GALLARDO (4)
- MARIA LUISA ROMERO ROMERO (4)
- ALVARO INGLES PRIETO (3)
- ASUNCIÓN DELGADO DELGADO (3)
- Valeria Alejandra Risso Dirazar (3)
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- GERMÁN LUZÓN GONZÁLEZ (2)
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- MERCEDES GUZMAN CASADO (1)
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