

JOSÉ MANUEL DOMÍNGUEZ VERA

Grupo de Investigación: **BIONANOPARTICULAS METALICAS** (Cod.: FQM368)

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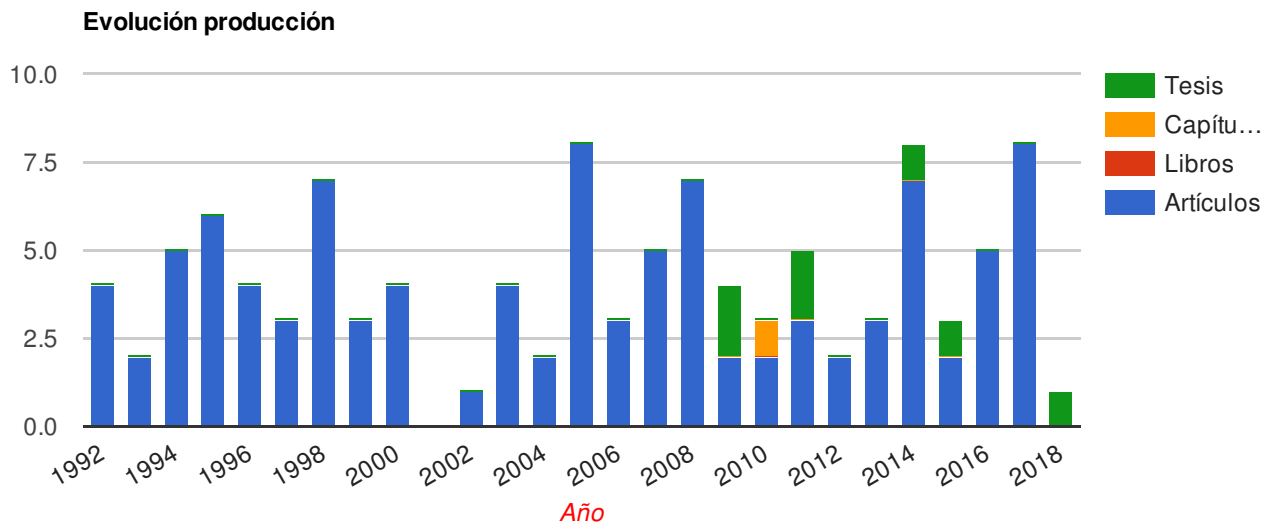
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Ficha del Directorio

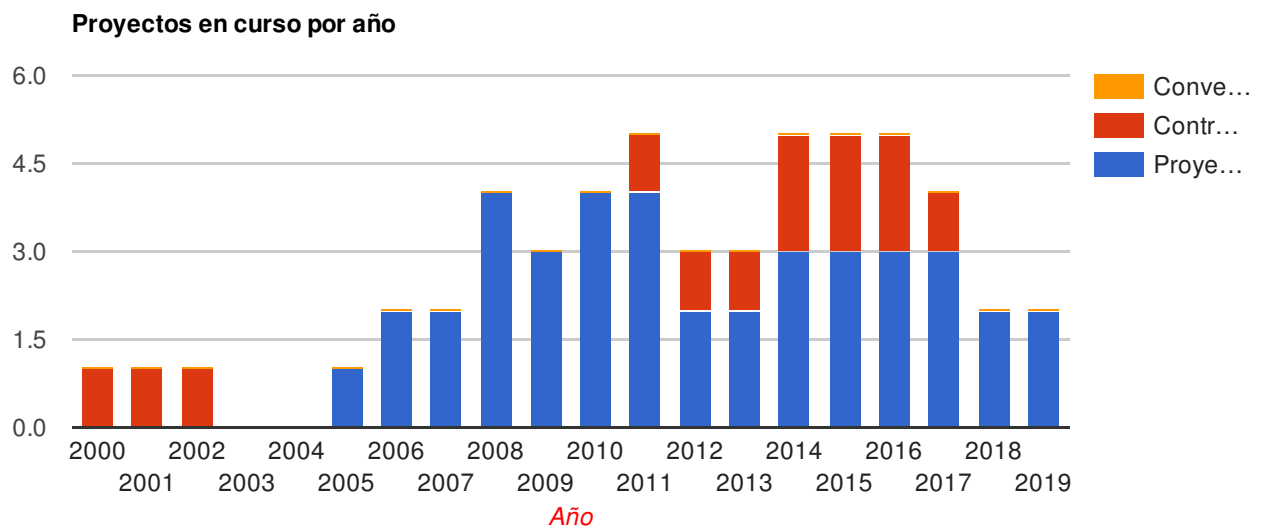
Producción 110

Artículos (102) Libros (0) Capítulos de Libros (1) Tesis dirigidas (7)



Proyectos dirigidos 16

Proyectos (12) Contratos (4) Convenios (0)



Actividades 3

Titulo publicación	Fuente	Tipo	Fecha
Materiales bioinspirados basados en bacterias. aplicaciones biomédicas	Universidad de granada. facultad de ciencias	Tesis doctoral	2018
Ambient protection of few-layer black phosphorus via sequestration of reactive oxygen species	Advanced materials	Articulo	2017
Copper redox chemistry of plant frataxins	Journal of inorganic biochemistry	Articulo	2017
Correlative microscopy: hybrid nanoscopy of hybrid nanomaterials	Small	Articulo	2017
Differential iron release from transferrin and lactoferrin. a laboratory experiment	Biochemistry and molecular biology education	Articulo	2017
Identification of the key excreted molecule by lactobacillus fermentum related to host iron absorption	Food chemistry	Articulo	2017
Identification of two frataxin isoforms in zea mays: structural and functional studies	Biochimie	Articulo	2017
Iron chemistry at the service of life	Iubmb life	Articulo	2017
Varying iron release from transferrin and lactoferrin proteins. a laboratory experiment	Biochemistry and molecular biology education	Articulo	2017
Apoferitin fibers: a new template for 1d fluorescent hybrid nanostructures		Articulo	2016
Apomaghemite as a doxorubicin carrier for anticancer drug delivery	Journal of inorganic biochemistry	Articulo	2016
Insights on the (auto) photocatalysis of ferritin	Inorganic chemistry	Articulo	2016
Magnetic study on biodistribution and biodegradation of oral magnetic nanostructures in the rat gastrointestinal tract	Nanoscale	Articulo	2016
Magnetism in living magnetically-induced bacteria	Rsc advances: an international journal to further the chemical sciences	Articulo	2016
Bacterias magnéticas biomiméticas. aplicaciones biomédicas	Universidad de granada. facultad de ciencias	Tesis doctoral	2015
Electrochromic polyoxometalate material as a sensor of bacterial activity	Chemical communication	Articulo	2015
Nanopatterning of magnetic prussian blue nanoparticles	Inorganic chemistry	Articulo	2015
Artificial magnetic bacteria	Advanced functional materials	Articulo	2014
Artificial magnetic bacteria: living magnets at room temperature		Articulo	2014
Bioinspired magneto-optical bacteria		Articulo	2014
Chemically and biologically harmless vs. harmful ferritin/copper-metallothionein couples	Chemistry (weinheim. internet)	Articulo	2014
In vivo long-term magnetic resonance imaging activity of ferritin- ζ -based magnetic nanoparticles versus a standard contrast agent		Articulo	2014
Materiales basados en el metabolismo del hierro	Universidad de granada. facultad de ciencias	Tesis doctoral	2014
Monitoring lactoferrin iron levels by fluorescence resonance energy transfer: a combined chemical and computational study		Articulo	2014
The crystal structure of ferritin from chlorobium tepidum reveals a new conformation of the 4-fold channel for this protein family	Biochimie	Articulo	2014
Ferritin iron uptake and release in the presence of metals and metalloproteins: chemical implications in the brain	Coordination chemistry reviews	Articulo	2013
Poly(amino acid) functionalized maghemite and gold nanoparticles	Nanotechnology	Articulo	2013
a bioinspired hybrid silica-protein material with antimicrobial activity by iron uptake	Metallomics	Articulo	2013
A new approach to the ferritin iron core growth: influence of the hll			

A new approach to the ferritin iron core growth. influence of the m/i ratio on the core shape	Dalton transactions	Artículo	2012
Water soluble fluorescent-magnetic perylene diimide-containing maghemite-nanoparticles for bimodal mri/oi imaging	Journal of inorganic biochemistry	Artículo	2012
Estudio por microscopía electrónica de transmisión de nanopartículas de ferritinas nativas, sintéticas y patológicas	Universidad de cádiz. ciencia de los materiales e ingeniería metalúrgica y química inorgánica	Tesis doctoral	2011
Ferritin and metallothionein: dangerous liaisons	Chemical communications	Artículo	2011
From synthetic to natural nanoparticles: monitoring the biodegradation of spio (p904) into ferritin by electron microscopy	Nanoscale	Artículo	2011
Magnetic nanoparticles-templated assembly of protein subunits: a new platform for carbohydrate-based mri nanoprobos	Journal of the american chemical society	Artículo	2011
Nanopartículas metálicas con aplicaciones biomédicas	Universidad de granada. química inorgánica	Tesis doctoral	2011
A bio-inspired approach to the synthesis of bimetallic conical nanoparticles	Inorganic chemistry	Artículo	2010
Introduction to nanoscale-ordered materials in biomedicine: the paradigmatic ferritin nanoparticle	Diffraction at the nanoscale. nanocrystals, defective and amorphous materials	Capítulo de libro	2010
Structural and magnetic characterization of pd nanoparticles encapsulated in apoferritin	Nanotechnology	Artículo	2010
Ferritinas naturales y sintéticas	Universidad de granada. química inorgánica	Tesis doctoral	2009
Ferritinas naturales y sintéticas. implicaciones nanobiomédicas	Universidad de granada. facultad de ciencias	Tesis doctoral	2009
Magnetic-fluorescent langmuir-blodgett films of fluorophore-labeled ferritin nanoparticles	Solid state sciences	Artículo	2009
Mri relaxation properties of water-soluble apoferritin-encapsulated gadolinium oxide-hydroxide nanoparticles	Dalton transactions	Artículo	2009
Apoferritin as a nanoreactor for preparing metallic nanoparticles	Comptes rendus. chimie	Artículo	2008
Comparative structural and chemical studies of ferritin cores with gradual removal of their iron contents	Journal of physics and chemistry of solids	Artículo	2008
Covalent deposition of ferritin nanoparticles onto gold surfaces	Nanotechnology	Artículo	2008
Fluorescence resonance energy transfer in ferritin labeled with multiple fluorescent dyes	Journal of biological inorganic chemistry	Artículo	2008
Quantum dots decorated with magnetic bionanoparticles	Advanced functional materials	Artículo	2008
Structural aspects of the growth mechanism of copper nanoparticles inside apoferritin	European journal of inorganic chemistry	Artículo	2008
Thermal induced phase transitions and structural relaxation in apoferritin encapsulated copper nanoparticles	Physical chemistry chemical physics	Artículo	2008
Langmuir monolayers and langmuir-blodgett films of ferritin prepared by using a surfactant mixture of eicosylamine (ea) and methyl stearate (sme)	Polyhedron	Artículo	2007
Permanent magnetism in apoferritin-encapsulated pd nanoparticles	Journal of materials chemistry	Artículo	2007
Red and blue ferritin nanomagnets by dye-labeling to the protein shell	Inorganica chimica acta	Artículo	2007
Red and blue ferritin nanomagnets by dye- ζ labeling to the protein shell	Inorganica chimica acta	Artículo	2007
Size-controlled water-soluble ag nanoparticles	European journal of inorganic chemistry	Artículo	2007

Apo ferritin-encapsulated Ni and Co superparamagnetic nanoparticles	Journal of materials chemistry	Articulo	2006
Magnetic Langmuir-Blodgett films of ferritin with different iron contents	Langmuir	Articulo	2006
Rate of iron transfer through the horse spleen ferritin shell determined by the rate of formation of Prussian blue and Fe-desferrioxamine within the ferritin cavity	Biophysical chemistry	Articulo	2006
Catechol releases iron(III) from ferritin by direct chelation without iron(II) production	Dalton transactions	Articulo	2005
Langmuir-Blodgett films based on inorganic molecular complexes with magnetic or optical properties	Advances in colloid and interface science	Articulo	2005
Magnetic Langmuir-Blodgett films of ferritin with different iron loadings	Synthetic metals	Articulo	2005
Preparation of Cu and CuFe Prussian blue derivative nanoparticles using the apo ferritin cavity as nanoreactor	Dalton transactions	Articulo	2005
Rational design of azide-bridged bimetallic complexes. Crystal structure and magnetic properties of (Fe ^{II} Fe ^{III}) _m -III (m = Ni-III and Cu-III) trinuclear species	Chemical communications	Articulo	2005
Release of iron from ferritin by aceto- and benzohydroxamic acids	Inorganic chemistry	Articulo	2005
Rate of iron transfer through the horse spleen ferritin shell determined by formation of Prussian blue and Fe-desferrioxamine in the ferritin cavity	American chemical society. abstracts of papers	Articulo	2005
Synthesis, structure, and properties of μ -oxo-bridged Fe ₂ (III) and heterometallic azide-bridged (Fe ₂ Cu ^{II})-Cu-III complexes of a picolinamide in-plane ligand	European journal of inorganic chemistry	Articulo	2005
Alkali cation influence on copper cyanide solid-state architecture: two self-assembled copper(I)-sodium and copper(I)-potassium complexes showing 2D and 3D structures	Inorganica chimica acta	Articulo	2004
Iron(III) complexation of desferrioxamine B encapsulated in apo ferritin	Journal of inorganic biochemistry	Articulo	2004
A novel one-dimensional cyano-bridged Ni ₃ Fe ₂ ferromagnet constructed from bimetallic molecular squares	Inorganic chemistry	Articulo	2003
Hydrothermal syntheses, crystal structures, and properties of two-dimensional homo- and heterometallic cyanide-bridged complexes: [Cu ₂ (CN) ₂ (bpy) _m] and [Fe(bipy) ₂ (CN) ₄ Cu ₂] (bpy _m =2,2'-bipyridine, bipy=2,2'-bipyridine)	Inorganic chemistry	Articulo	2003
Influence of lysozyme on the precipitation of calcium carbonate: a kinetic and morphologic study	Geochimica et Cosmochimica Acta	Articulo	2003
Nanoparticles of Prussian blue ferritin: a new route for obtaining nanomaterials	Inorganic chemistry	Articulo	2003
A tris-imidazolecarboxyaldehyde copper(II) complex with unusual carbonyl coordination: structure and reactivity	Journal of the chemical society. Dalton transactions	Articulo	2002
A pro-chiral bis-imidazolyl-containing copper(II) complex as precursor of a self-assembled polymer and a heterodinuclear copper(II)-nickel(II) complex	Inorganica chimica acta	Articulo	2000
Structure and magnetic properties of two cyanide-bridged one-dimensional M-Cu-III (M = Fe-III or Fe-II) bimetallic assemblies from ferricyanide and Cu _n 4 ²⁺ (n=4 = 1,4,8,11-tetraazacyclotetradecane and n,n'-bis(2-pyridylmethylene)-1,3-propanediol)	Journal of the chemical society. Dalton transactions	Articulo	2000
The effect of avian uterine fluid on the growth behavior of calcite crystals	Poultry science	Articulo	2000
{2-[(3-aminopropyl)aminopropyl-iminomethyl]imidazolato-n,n'-bis(2-pyridylmethylene)-1,3-propanediol}copper(II) perchlorate	Acta Crystallographica. Section C, Crystal Structure Communications.	Articulo	2000

A novel two-dimensional honeycomb-like bimetallic iron(iii)-nickel(ii) cyanide-bridged magnetic material [ni(cyclam)](3)[fe(cn)(6)](2)center dot nh(2)o (cyclam=1,4,8,11-tetraazacyclodecane)	Chemical communications	Articulo	1999
One-dimensional iron(iii) and two-dimensional iron(iii)nickel(ii) cyanide-bridged ferromagnetic arrays from hexacyanoferrate(iii) and [ni(cyclam)](2+) building blocks: synthesis, crystal structure and magnetic properties	Molecular crystals and liquid crystals science and technology. section a. molecular crystals and liquid crystals	Articulo	1999
Singly anti-anti carboxylate-bridged zig-zag chain complexes from a carboxylate-containing tridentate schiff base ligand and m(hfac)(2) [m = mn-ii, ni-ii, and cu-ii]: synthesis, crystal structure, and magnetic properties	European journal of inorganic chemistry	Articulo	1999
A cyano bridged iron(iii) linear chain with alternating fe(cn)(6)-fe(cyclam) (cyclam = 1,4,8,11-tetraazacyclodecane) units and unexpected ferromagnetic behaviour	Chemical communications	Articulo	1998
A new mononuclear copper(ii) complex containing two imidazolyl moieties as precursor of self-assembled and (nicuniii)-cu-ii- ni-ii heterobimetallic complexes	Inorganic chemistry	Articulo	1998
A novel series of heterotrinnuclear complexes involving imidazolate bridging schiff's base ligands. synthesis, crystal structure, and magnetic properties	Inorganic chemistry	Articulo	1998
Copper (ii) complexes of two new oxamidate bis-tetradentate schiff-base ligands	Polyhedron	Articulo	1998
Octakis(dimethyl sulfoxide-o)-gadolinium(iii) hexacyanoferrate(iii)	Acta crystallographica. section c, crystal structure communications.	Articulo	1998
Structures, electrochemical and spectroscopic properties of ternary ruthenium(ii)-polypyridyl complexes with additional carboxylate, biguanide or sulfonamide donors	Polyhedron	Articulo	1998
Synthesis of polynuclear copper(ii) complexes by controlling the conformation (cis or trans) of n,n'-bis(3-aminopropyl)oxamidate and the coordination mode of 2,2'-bipyrimidine	Inorganica chimica acta	Articulo	1998
Bis(didentate) open-chain and tetradentate pseudo-macrocyclic bridging co-ordination modes of n,n'-bis(1,3-dimethyl-5-nitroso-2,4-dioxypyrimidin-6-yl)butane-1,4-diamine	Journal of the chemical society. dalton transactions	Articulo	1997
Dinuclear copper(ii) complexes containing nitroso-oximate bridges: two different copper(ii)-bridging entities from the same precursor	Polyhedron	Articulo	1997
Structural characterization of closely related mononuclear cu-ii complexes of 5-nitrosooxime pyrimidines. a combined x-ray and epr study	Acta chemica scandinavica (copenhagen. 1989)	Articulo	1997
A preliminary study on the interaction of chelating agent with ferritine single crystals	Journal of crystal growth	Articulo	1996
A preliminary study on the interaction of ferritin single crystals with chelating agents	Journal of crystal growth	Articulo	1996
Crystal structure of [ni(cth)(ncs)(2)] with linearly and nonlinearly coordinated isothiocyanate groups	Acta chemica scandinavica (copenhagen. 1989)	Articulo	1996
Deprotonation and self-assembly of symmetric oxamidate-bridged dinuclear copper(ii) complex involving imidazole moieties	Journal of the chemical society. dalton transactions	Articulo	1996
A heterodinuclear anti oximate-bridged copper(ii)-nickel(ii) complex - crystal-structure and magnetic-properties	Inorganica chimica acta	Articulo	1995
A mixed-bridged cu ₃ cluster with an isosceles-triangular array of copper(ii) ions: synthesis, crystal structure and magnetic properties	Journal of the chemical society. dalton transactions	Articulo	1995

Aqua[1,3-propanediyl-diiminobis(1,3-dimethyl-5-nitrosouracilato)-kappa-n-4(5),n-6,-n-15,n-16]copper(ii) monohydrate	Acta crystallographica. section c, crystal structure communications.	Articulo	1995
Crystal structure and magnetic properties of [Cu(ox)(py) ₂] (py=pyridine). a ferromagnetic oxalate-bridged zigzag chain complex	Journal of the chemical society. dalton transactions	Articulo	1995
Geometrical and optical isomers of the nickel(ii) complexes of chiral, tetradentate unmixed and mixed schiff bases: cd and nmr spectroscopic studies	Polyhedron	Articulo	1995
Heptahydrated monosodium salt of 6-amino-5-(2-carboxyphenyl)azouracil	Acta crystallographica. section c, crystal structure communications.	Articulo	1995
Geometrical and optical isomers of the dinickel complexes of two chiral ligands of the n,n-disubstituted oxamide type: 1d and 2d nmr-study	Inorganica chimica acta	Articulo	1994
Heterodinuclear copper(ii)-nickel(ii) complexes with unusual asymmetrical bridges from a new and versatile dioxime multidentate ligand - magnetostructural study	Inorganic chemistry	Articulo	1994
Stereoisomerism in the nickel(ii) complexes of a chiral tridentate ligand - solid-state and solution study	Inorganic chemistry	Articulo	1994
Synthesis of the first example of a dinuclear syn-anti carboxylate-bridged copper(ii) complex from a related hydrogen-bonded dinuclear copper(ii) complex by thermal treatment	Thermochimica acta	Articulo	1994
The preparation, spectroscopic study and crystal-structures of 2 copper(ii) complexes of closely-related carboxyphenylazopyrimidine ligands, involving distorted square-pyramidal Cu ₄ O and Cu ₃ O ₂ chromophores	Polyhedron	Articulo	1994
Structural and magnetic studies of a zigzag chain copper(ii) complex and a dipolar spin-coupled copper(ii) dimer with the versatile ligand 5-((2-carboxyphenyl)azo)-1,3-dimethylbarbituric acid	Journal of the chemical society. dalton transactions	Articulo	1993
Structure and magnetic-properties of a syn-anti carboxylate bridged linear trinuclear copper(ii) complex with ferromagnetic exchange interaction.	Inorganica chimica acta	Articulo	1993
A novel example of a dinuclear copper(ii) complex bridged by only one pyrazolate ion: preparation, spectroscopic and magnetic-properties, and mmx force-field study	Acta chemica Scandinavica (Copenhagen. 1989)	Articulo	1992
Conversion of a hydrogen-bonded dinuclear copper(ii) complex into a bridged carboxylate related complex by thermal-treatment	Thermochimica acta	Articulo	1992
Structural and magnetic studies of a syn-anti carboxylate-bridged helix-like chain copper(ii) complex	Inorganic chemistry	Articulo	1992
Synthesis, spectroscopic, magnetic properties and mmx force field study of two imidazolate-bridged dinuclear copper(ii) complexes	Transition metal chemistry	Articulo	1992

	Título proyecto	Tipo	Inicio	Fin
1	Nanoquímica con bacterias, biopolímeros y biofibras	Proyecto	1/1/16	12/31/19
2	'nanoquímica con bacterias, biopolímeros y biofibras'	Proyecto	1/1/16	12/31/19
3	Nuevas estrategias de innovación tecnológica orientadas a la salud y el bienestar infantil y de la mujer (carmenta).	Proyecto	6/1/15	5/30/17
4	Nuevas estrategias de innovación tecnológica orientadas a la salud y el bienestar infantil y de la mujer	Contrato	12/1/15	5/30/17
5	Nuevas aplicaciones de cepas probióticas y de compuestos derivados con actividad biológica	Contrato	5/2/14	1/31/16
6	Bionanopartículas magnéticas-fluorescentes de metabolismo lento para aplicaciones teragnósticas	Proyecto	1/1/13	12/31/15
7	Bionanopartículas magnética-fluorescentes de metabolismo lento para aplicaciones teragnósticas. ctq2012-32236	Proyecto	1/1/13	12/31/15
8	Hacia un escalado industrial de un suplemento de hierro basado en probióticos.	Proyecto	1/1/14	12/31/14
9	Nuevas aplicaciones de cepas probióticas y de compuestos derivados con actividad biológica	Contrato	12/1/11	12/1/14
10	Nanopartículas metálicas multifuncionales utilizando bioplataformas. aplicaciones nanobiomédicas.	Proyecto	1/1/10	12/31/12
11	Preparación y estudio por microscopía electrónica de nanopartículas magnéticas-fluorescentes. ordenación en superficie de Au modificada y películas Langmuir-Blodgett.	Proyecto	2/1/08	1/31/12
12	Nuevos agentes bimodales en resonancia magnética y óptica imagen para el diagnóstico precoz del cáncer	Proyecto	1/1/10	12/31/11
13	Preparación y estudio por microscopía electrónica de nanopartículas magnéticas-fluorescentes. ordenación en superficie de Au modificada y películas Langmuir-Blodgett.	Proyecto	7/25/08	12/30/11
14	Nanomagnetismo molecular: preparación de nanopartículas bimetalicas basadas en ferritina	Proyecto	10/1/06	9/30/09
15	Preparación de nanopartículas metálicas encapsuladas en la ferritina	Proyecto	12/31/05	12/31/08
16	Estudio de la interacción entre sustratos naturales con potencial actividad biológica e hierro	Contrato	8/1/00	1/31/02

Actividades 3

Título actividad	Fuente	Tipo	Fecha
Aneca		Experiencia en evaluación	May 1, 2006
Acsucyl		Experiencia en evaluación	May 1, 2010
Anii, apcyt y conicyt		Experiencia en evaluación	May 1, 2012

Colaboradores

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- **MARÍA PURIFICACIÓN SÁNCHEZ SÁNCHEZ** (14)
- **ELSA VALERO ROMERO** (9)
- **FERNANDO CARMONA RODRÍGUEZ-ACOSTA** (8)
- **FRANCISCO SANTOYO GONZÁLEZ** (4)
- **JUAN MANUEL GARCÍA RUIZ** (4)

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- Miguel Ángel Martín Marcos (4)
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- DEYANIRA RONDON RODRIGUEZ (3)
- ROCÍO JURADO PALOMARES (3)
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- Víctor Jesús Garcés Robles (2)
- ALEJANDRO RODRIGUEZ NAVARRO (1)
- ANGEL ORTE GUTIERREZ (1)
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- CONCEPCION JIMENEZ LOPEZ (1)
- DAVIDE PEREGO (1)
- JOAQUIN ISAC GARCIA (1)
- JOSÉ CALLEJAS FERNÁNDEZ (1)
- JULIO JUAN GÁLVEZ PERALTA (1)
- MOHAMED LARBI MERROUN (1)
- MÓNICA OLIVARES MARTÍN (1)