

Ficha de grupo de investigación

TECNOLOGIAS AVANZADAS DE PRODUCCION Y FORMULACION DE BIOFERTILIZANTES

Código: AGR269

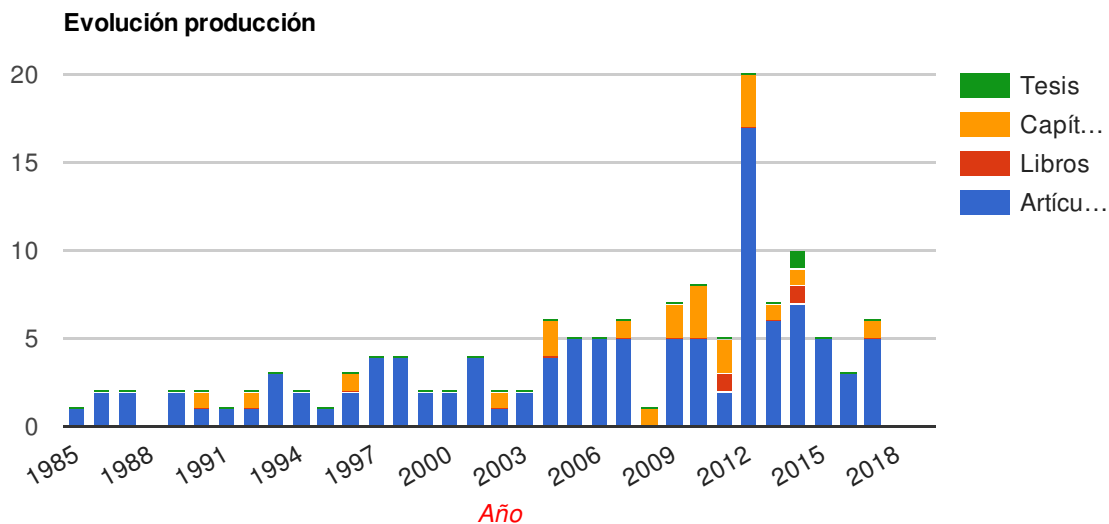
Responsable del grupo: NIKOLAY BOJKOV VASSILEV

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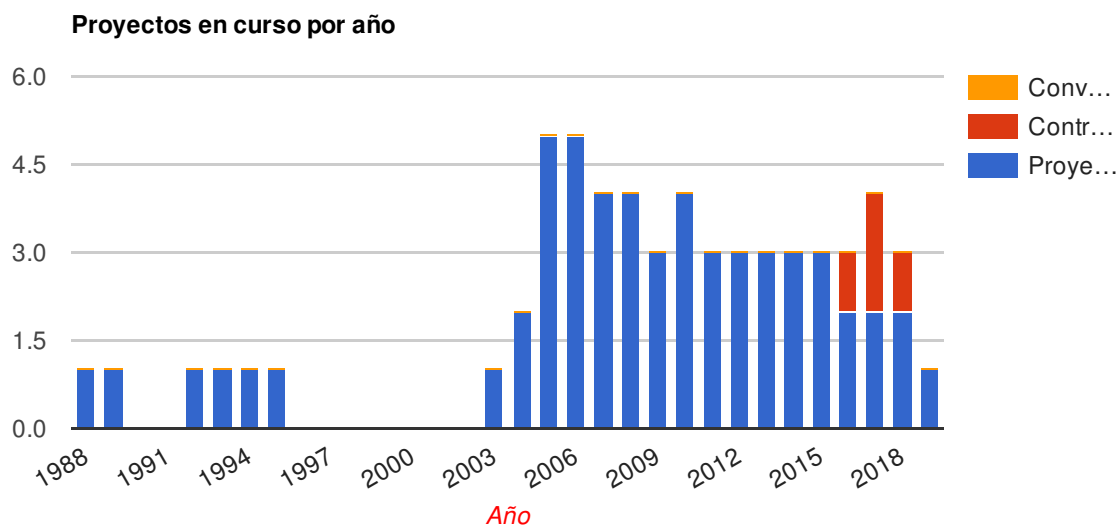
Producción 213

- Artículos (173)
- Libros (2)
- Capítulos de Libros (37)
- Tesis dirigidas (1)



Proyectos dirigidos 13

- Proyectos (11)
- Contratos (2)
- Convenios (0)



Actividades 12

Titulo publicación	Fuente	Tipo	Fecha
Adsorption of nutrients on natural spanish clays for enriching seed coatings	Adsorption	Articulo	2017
Combined use of plant extracts and arbuscular mycorrhizal fungi to reduce root-knot nematode damage in tomato	Biological agriculture & horticulture	Articulo	2017
Fermentation liquid containing microbially solubilized p significantly improved plant growth and p uptake in both soil and soilless experiments	Applied soil ecology	Articulo	2017
Potential application of glycerol in the production of plant beneficial microorganisms	Journal of industrial microbiology and biotechnology	Articulo	2017
Production of a potential liquid plant bio-stimulant by immobilized piriformospora indica in repeated-batch fermentation process	Amb express	Articulo	2017
Solid-state fermentation and plant beneficial microorganisms	Current developments in biotechnology and bioengineering: current advances in solid-state fermentation	Capítulo de libro	2017
Adsorption/desorption of fungicides in natural clays from southeastern spain	Applied clay science	Articulo	2016
Biodiesel by-products and p-solubilizing microorganisms	Reviews in environmental science and bio/technology	Articulo	2016
Biodiesel by-products and p-solubilizing microorganisms	Reviews in environmental science and bio/technology	Articulo	2016
Optimization of aspergillus niger rock phosphate solubilization in solid¿state fermentation and use of the resulting product as a p fertilizer	Microbial biotechnology	Articulo	2015
Population dynamics of meloidogyne javanica and its relationship with the leaf chlorophyll content in zucchini	Crop protection	Articulo	2015
Suitability of zucchini and cucumber genotypes to populations of meloidogyne arenaria, m. incognita and m. javanica	Journal of nematology	Articulo	2015
The state of art and challenges of an ec lifelong learning/leonardo da vinci project	International journal of arts and sciences	Articulo	2015
Unexploited potential of some biotechnological techniques for biofertilizer production and formulation	Applied microbiology and biotechnology	Articulo	2015
A contribution to set a legal framework to biofertilizers	Applied microbiology and biotechnology	Articulo	2014
Antimicrobial effect of cleaning formulations of industrial interest on free-living cells and biofilms	Afinidad: revista de quimica teorica y aplicada	Articulo	2014
Biochar enhances aspergillus niger rock phosphate solubilization by increasing organic acid production and alleviating fluoride toxicity	Applied and environmental microbiology	Articulo	2014
Biotechnological tools for enhancing microbial solubilization of insoluble inorganic phosphates	Geomicrobiology journal	Articulo	2014
Biotechnological tools for enhancing microbial solubilization of insoluble inorganic phosphates	Geomicrobiology journal	Articulo	2014
Cinética e otimização da solubilização de fosfato natural por aspergillus niger	Universidad federal de vicosa, brasil	Tesis doctoral	2014
Effect of abiotic stress factors on phosphate solubilization by acid-producing aspergillus niger in submerged and solid-state fermentations	Industrial, medical and environmental applications of microorganisms: current status	Capítulo de libro	2014
Effects of dual inoculation of mycorrhiza and endophytic, rhizospheric or parasitic bacteria on the root-knot nematode disease of tomato	Biocontrol science and technology	Articulo	2014

Disease of tomato			
Manejo integrado de nemátodos fitoparásitos en cultivos hortícolas		Libros	2014
Mechanisms of phosphate solubilization by fungal isolates when exposed to different p sources	Annals of microbiology	Articulo	2014
Abiotic stress remediation by the arbuscular mycorrhizal symbiosis and rhizosphere bacteria/yeast interactions	Molecular microbial ecology of the rhizosphere	Capítulo de libro	2013
Biochar of animal origin: a sustainable solution of the high-grade rock phosphate scarcity	Journal of the science of food and agriculture	Articulo	2013
Effects of long-term phosphorus application and plant growth promoting rhizobacteria on maize phosphorus nutrition under field conditions	European journal of soil biology	Articulo	2013
Effects of sulphate addition and sulphide inhibition on microbial fuel cells	Enzyme and microbial technology	Articulo	2013
Inhibition of fungal phosphate solubilization by fluoride released from rock phosphate	Applied and environmental microbiology	Articulo	2013
Single and combined applications of arbuscular mycorrhizal fungi and enterobacter radicincitans affect nutrient uptake of faba bean and soil biological characteristics	Landbauforschung volkenrode	Articulo	2013
Solubilization of animal bonechar by a filamentous fungus employed in solid state fermentation	Ecological engineering	Articulo	2013
Animal bone char solubilization with itaconic acid produced by free and immobilized aspergillus terreus grown on glycerol-based medium	Applied biochemistry and biotechnology	Articulo	2012
Animal bone char solubilization with itaconic acid produced by free and immobilized aspergillus terreus grown on glycerol-based medium	Applied biochemistry and biotechnology	Articulo	2012
Animal bones char solubilization by gel-entrapped yarrowia lipolytica on glycerol-based media	The scientific world journal	Articulo	2012
Animal bone char solubilization with itaconic acid produced by free and immobilized aspergillus terreus grown on glycerol-based medium	Biotechnology and applied biochemistry	Articulo	2012
Biological protection conferred by glomus spp. and bacillus megaterium against meloidogyne incognita in tomato and pepper	lobc-wprs bulletin	Articulo	2012
Biotechnological approaches to improve plant p nutrition based on waste natural products	Journal of international scientific publications: ecology & safety	Articulo	2012
Biotechnological strategies aimed at sustainable mineral plant nutrition and food safety	Journal of international scientific publications: ecology & safety	Articulo	2012
Dual inoculation with pseudomonas fluorescens and arbuscular mycorrhizal fungi increases phosphorus uptake of maize and faba bean from rock phosphate	Vti agriculture and forestry research	Articulo	2012
Efficiency of a biological aerated filter for the treatment of leachate produced at a landfill receiving non-recyclable waste	Journal of environmental science and health. part a: toxic hazardous substances and environmental engineering	Articulo	2012
Especies de meloidogyne y su distribución en los cultivos hortícolas protegidos de almería	Agricola vergel	Articulo	2012
Fusarium: epidemiology, environmental sources and prevention	Fusarium: epidemiology, environmental sources and prevention	Capítulo de libro	2012
Las enfermedades causadas por nemátodos (meloidogyne spp.) en los cultivos hortícolas bajo abrigo de almería: visión	Agricola vergel	Articulo	2012

spp.) en los cultivos hortícolas bajo abrigo de almendra. visión de los asesores técnicos	Agricultura vegetal	Artículo	2012
Pgpr as inoculants in management of lands contaminated with trace elements	Bacteria in agrobiology: stress management	Capítulo de libro	2012
Perception of the impact of root-knot nematode-induced diseases in horticultural protected crops of south-eastern Spain	Nematology	Artículo	2012
Reclamation strategies of semiarid mediterranean soil: improvement of the efficiency of arbuscular mycorrhizal fungi by inoculation of plant growth promoting microorganisms and organic amendments	The mycorrhizal symbiosis in mediterranean environment: importance in ecosystem stability and in soil rehabilitation strategies	Capítulo de libro	2012
Short term effects of bioenergy by-products on soil C and N dynamics, nutrient availability and biochemical properties	Agriculture, ecosystems & environment	Artículo	2012
Soil hydrophysical properties resulting from the interaction between organic amendments and water quality in soils from southeastern Spain: a laboratory experiment	Agricultural water management	Artículo	2012
Stress tolerant P-solubilizing microorganisms	Applied microbiology and biotechnology	Artículo	2012
Use of bioenergy residues as amendments: implications on soil fertility and soil carbon sequestration	Eqa: international journal of environmental quality	Artículo	2012
Use of poultry manure combined with soil solarization as a control method for <i>Meloidogyne incognita</i> in carnation	Plant disease	Artículo	2012
Remediation of heavy metal contaminated soils by phosphate-bearing biotechnological products	Bioremediation: biotechnology, engineering and environmental management	Capítulo de libro	2011
Recycling of organic residues as soil amendments: impact on soil fertility and C sequestration	Proceedings books of Slovenian-Italian conference on materials and technologies for sustainable growth	Capítulo de libro	2011
Solarización y biosolarización como alternativas a la desinfección química de suelos en cultivos enarenados	Actas portuguesas de horticultura	Artículo	2011
Tratamiento de lixiviados de vertederos de residuos urbanos. aplicabilidad de procesos de coagulación-floculación y de biopelícula		Libros	2011
Use of organic residues for the recovery of soil and environmental sustainability	Eqa: international journal of environmental quality	Artículo	2011
Ecological effects of microbially-treated hydroxyapatite	Geo-science and environment	Capítulo de libro	2010
Effectiveness of the application of arbuscular mycorrhizal fungi and organic amendments to improve soil quality and plant performance under stress conditions	Journal of soil science and plant nutrition	Artículo	2010
Evaluation of the quality and treatability of leachate produced at a landfill connected to an urban waste composting and recovery plant at Alhendín (Granada, Spain)	Journal of environmental science and health. part A: toxic hazardous substances and environmental engineering	Artículo	2010
Efecto de la adición de enmiendas orgánicas en la estabilidad estructural del suelo	Suelo: funciones y manejo	Capítulo de libro	2010
Multifunctional properties of phosphate-solubilizing microorganisms grown on agro-industrial wastes in fermentation and soil conditions	Applied microbiology and biotechnology	Artículo	2010
Solubilization of natural hydroxyapatite by lactic acid producing <i>Rhizopus arrhizus</i> immobilized in polyurethane foam	Geo-science and environment	Capítulo de libro	2010
The effectiveness of arbuscular-mycorrhizal fungi and <i>Aspergillus niger</i> or <i>Phanerochaete chrysosporium</i> treated	Journal of environmental		

Aspergillus niger or phanerochaete chrysosporium treated organic amendments from olive residues upon plant growth in a semi-arid degraded soil	Journal of environmental management	Artículo	2010
The interactive effect of am fungi and organic amendment on improving inocula potential and growth and nutrition of trifolium repens in cd contaminated soils	Applied soil ecology	Artículo	2010
Electricity from landfill leachate using microbial fuel cells; comparison with a biological aerated filter	Enzyme and microbial technology	Artículo	2009
Landfill leachate treatment with microbial fuel cells; scale-up through plurality	Bioresource technology	Artículo	2009
Novel approaches in phosphate-fertilizer production based on wastes derived from rock phosphate mining and food processing industry	Industrial waste: environmental impact, disposal and treatment	Capítulo de libro	2009
Production of manganese peroxidase by phanerochaete chrisosporium grown on medium containing agro-wastes/rock phosphate and biocontrol properties of the final product	Industrial crops and products	Artículo	2009
Significance of treated agrowaste residue and autochthonous inoculates (arbuscular mycorrhizal fungi and bacillus cereus) on bacterial community structure and phytoextraction to remediate soils contaminated with heavy metals	Chemosphere	Artículo	2009
Stability and efficiency of biofilms for landfill leachate treatment	Bioresource technology	Artículo	2009
Valorization of agro-industrial wastes by biological treatment	Industrial waste: environmental impact, disposal and treatment	Capítulo de libro	2009
Antagonistic effect of microbially-treated mixture of agro-industrial wastes and inorganic insoluble phosphate to fusarium wilt disease	Progress in environmental microbiology	Capítulo de libro	2008
An improved technique for preparation of gel-entrapped fungal spores	Minerva biotecnologica	Artículo	2007
Fermentation of sugar beet waste by aspergillus niger facilitates growth and p uptake of external mycelium of mixed populations of arbuscular mycorrhizal fungi	Soil biology & biochemistry	Artículo	2007
Indole-3-acetic acid production by gel-entrapped bacillus thuringiensis in the presence of rock phosphate ore	Chemical engineering communications	Artículo	2007
Microbial solubilization of rock phosphate on media containing agro-industrial wastes and effect of the resulting products on plant growth and p uptake	First international meeting on microbial phosphate solubilization	Capítulo de libro	2007
Respuesta del cultivo de escarola (cichcorim endivia l.) al riego localizado combinado con acolchado plástico y cubiertas flotantes.	Riegos y drenajes xxi	Artículo	2007
Simultaneous phytase production and rock phosphate solubilization by aspergillus niger grown on dry olive wastes	Industrial crops and products	Artículo	2007
Influencia del acolchado plástico y la cubierta de agrotexil en la producción y calidad de dos cultivos hortícolas: lechuga iceberg y escarola	Actas de horticultura	Artículo	2006
Microbial solubilization of rock phosphate on media containing agro-industrial wastes and effect of the resulting products on plant growth and p uptake	Plant and soil	Artículo	2006
Simultaneous p-solubilizing and biocontrol activity of microorganisms: potentials and future trends	Applied microbiology and biotechnology	Artículo	2006
The growth-enhancement of clover by aspergillus-treated sugar beet waste and glomus mosseae inoculation in zn contaminated soil	Applied soil ecology	Artículo	2006
Treatment of landfill leachate with aerated and non-aerated	Journal of environmental science and health. part a: toxic hazardous	Artículo	2006

submerged biofilters	substances and environmental engineering	Artículo	2006
Application of aspergillus niger-treated agrowaste residue and glomus mosseae for improving growth and nutrition of trifolium repens in a cd-contaminated soil	Journal of biotechnology	Artículo	2005
Coagulation-flocculation pretreatment of a partially stabilized leachate from a sanitary landfill site at alhendin (granada, southern spain)	Journal of environmental science and health. part a: toxic hazardous substances and environmental engineering	Artículo	2005
Gel-entrapment of arbuscular mycorrhizal fungi: current status and future prospects. review paper.	Reviews in environmental science and bio/technology	Artículo	2005
Polymer-based preparation of soil inoculants: application to arbuscular mycorrhizal fungi	Reviews in environmental science and bio/technology	Artículo	2005
Temperature constraints on the growth and functioning of root organ cultures with arbuscular mycorrhizal fungi	New phytologist	Artículo	2005
Am fungi inoculation and addition of microbially-treated dry olive cake-enhanced afforestation of a desertified mediterranean site	Land degradation & development	Artículo	2004
Improvement of soil characteristics and growth of dorycnium pentaphyllum by amendment with agrowastes and inoculation with am fungi and/or the yeast yarrowia lipolytica	Chemosphere	Artículo	2004
Increased plant growth, nutrient uptake, and soil enzymatic activities in a desertified mediterranean soil amended with treated residues and inoculated with native mycorrhizal fungi and a plant growth-promoting yeast	Soil science	Artículo	2004
Multifunctional properties of a plant growth promoting bacterium entrapped in k-carrageenan	Xii international meeting on bioencapsulation	Capítulo de libro	2004
Multifunctional properties of a plant growth promoting bacterium entrapped in k-carrageenan	Xii international meeting on bioencapsulation	Capítulo de libro	2004
Reuse of microbially treated olive mill wastewater as fertiliser for wheat (triticum durum desf.)	Bioresource technology	Artículo	2004
Interactions of arbuscular-mycorrhizal fungi and bacillus strains and their effects on plant growth, microbial rhizosphere activity (thymidine and leucine incorporation) and fungal biomass (ergosterol and chitin)	Applied soil ecology	Artículo	2003
Residues of olive oil extraction process: possible biotechnological approaches.	Richmac magazine	Artículo	2003
Interactive effect of suspension or encapsulated inoculum of bacillus thuringiensis associated with arbuscular mycorrhizal fungus on plant growth responses and mycorrhizal inoculum potential	Symbiosis (philadelphia, pa.)	Artículo	2002
The use of p32 dilution technique to evaluate the effect of mycorrhizal inoculation on plant uptake of p from products of fermentation mixtures including agrowastes	Assessment of soil phosphorus status and management of phosphatic fertilizers to optimize crop production	Capítulo de libro	2002
Application of free and ca-alginate-entrapped glomus deserticola and yarrowia lipolytica in a soil-plant system.	Journal of biotechnology	Artículo	2001
Immobilized cell technology applied in solubilization of insoluble inorganic (rock) phosphates and p plant acquisition	Bioresource technology	Artículo	2001
Interactions of an arbuscular mycorrhizal fungus with free or co-encapsulated cells of rhizobium trifoli and yarrowia lipolytica inoculated into a soil-plant system	Biotechnology letters	Artículo	2001
Preparation of gel-entrapped mycorrhizal inoculum in the presence or absence of yarrowia lipolytica	Biotechnology letters	Artículo	2001

Application of encapsulated penicillium variable p16 in solubilization of rock phosphate	Bioresource technology	Articulo	2000
Rock phosphate solubilization by free and encapsulated cells of yarowia lipolytica	Process biochemistry	Articulo	2000
Effect of encapsulated cells of enterobacter sp on plant growth and phosphate uptake.	Bioresource technology	Articulo	1999
Increases in growth and nutrient uptake of alfalfa grown in soil amended with microbially-treated sugar beet waste	Applied soil ecology	Articulo	1999
Application of an encapsulated filamentous fungus in solubilization of inorganic phosphate	Journal of biotechnology	Articulo	1998
Fertilizing effect of microbially treated olive mill wastewater on trifolium plants	Bioresource technology	Articulo	1998
Increases in growth and nutrient uptake of alfalfa grown in soil amended with microbially-treated sugar beet waste.	Applied soil ecology	Articulo	1998
Rock phosphate solubilization by aspergillus niger on olive cake-based medium and its further application in a soil-plant system	World journal of microbiology and biotechnology	Articulo	1998
Olive mill waste water treatment by immobilized cells of aspergillus niger and its enrichment with soluble phosphate	Process biochemistry	Articulo	1997
Rock phosphate solubilization by immobilized cells of enterobacter sp. in fermentation and soil conditions	Bioresource technology	Articulo	1997
Rock phosphate solubilization with gluconic acid produced by immobilized penicillium variable p16.	Biotechnology techniques	Articulo	1997
Solubilization of rock phosphate by immobilized aspergillus niger	Bioresource technology	Articulo	1997
Improved plant growth with rock phosphate solubilized by aspergillus niger grown on sugarbeet waste	Bioresource technology	Articulo	1996
Mineralization of three agro-industrial wastes by an acid-producing strain of aspergillus niger	The science of composting	Capítulo de libro	1996
Rock phosphate solubilization with gluconic acid produced by immobilized penicillium variable p16	Biotechnology techniques	Articulo	1996
Rock phosphate solubilization by aspergillus niger grown on sugar-beet waste medium	Applied microbiology and biotechnology	Articulo	1995
Plant lignocellulose and fungi: from nature to industrial use.	Mycologist (cambridge)	Articulo	1994
Production and properties of inulinase from aspergillus-niger	Biotechnology letters	Articulo	1994
Effect of the various zinc concentrations of the nutrient solution on biomass quantity, mineral composition and pigment content in lettuce (lactuca sativa l.)	Journal of plant physiology	Articulo	1993
On the possible use of natural gels as carriers for fungal cells.	Chemical industry and environment v	Articulo	1993
Production of gluconic acid by immobilized aspergillus niger.	Applied microbiology and biotechnology	Articulo	1993
Citric acid production by immobilized aspergillus niger on starch hydrolysate medium	Recent advances in biotechnology	Capítulo de libro	1992
Immobilized aspergillus terreus in itaconic acid production from glucose.	Biotechnology letters	Articulo	1992
Organic acid production by immobilized cells.	Mycologist (cambridge)	Articulo	1991
Continuous itaconic acid production by immobilized biocatalysts.	Journal of biotechnology	Articulo	1990
Influence of reactor mode on citric acid productivity of aspergillus niger immobilized on polyurethane foam	Physiology of immobilized cells	Capítulo de libro	1990
Immobilization methods applied in biotechnological production of ethanol	Journal of the bulgarian academy	Articulo	1989

production of citric acid

Itaconic acid production by immobilized cells of aspergillus terreus.	Biotechnology letters	Articulo	1989
Immobilization of microorganisms producing organic acids	Journal of the bulgarian academy	Articulo	1987
Investigations of the effect of tweens on citric acid production by aspergillus niger	Food industry science	Articulo	1987
Biosynthesis of citric acid by aspergillus niger on medium containing starch hydrolysates	Acta microbiologica bulgarica	Articulo	1986
Selection of aspergillus strains for their ability to produce citric acid on complex substrates	Acta microbiologica bulgarica	Articulo	1986
Activity alterations of some krebs enzymes of aspergillus niger during the biosynthesis of citric acid	Acta microbiologica bulgarica	Articulo	1985

	Título proyecto	Tipo	Inicio	Fin
1	Aplicaciones biotecnológicas en la producción y formulación de un nuevo clase de bio-fertilizantes	Proyecto	10/1/15	12/31/18
2	"desarrollo de esquemas biotecnológicos de nuevos modelos de biofertilizantes"	Contrato	10/1/17	1/31/18
3	Estudios sobre características adicionales de una cepa bacteriana estimuladora del crecimiento vegetal	Contrato	10/1/16	1/30/17
4	Nuevos procesos biotecnológicos de preparación de inoculantes de microorganismos del suelo. tecnologías basadas en fuentes renovables de fosfatos y residuos agroindustriales	Proyecto	10/1/12	6/30/15
5	Desarrollo de nuevos procesos biotecnológicos de solubilización microbiana de fuentes alternativas de fosfatos y elaboración de bio-fertilizantes a base de residuos carnicos y agro-industriales	Proyecto	10/1/10	1/31/14
6	Estudios pioneros sobre huesos carbonizados de animales como fuente de fosfatos: solubilización microbiana a base de agro-residuos y utilización como soportes en formulaciones de inoculantes	Proyecto	10/1/09	12/31/11
7	Bioencapsulation multiscale analysis	Proyecto	10/14/05	1/17/10
8	Biotransformación de alpeorajo y su enriquecimiento con fosfatos solubles para ser utilizado como enmienda orgánica. estudio integral y manejo de las cualidades múltiples de los microbio implicados.	Proyecto	10/31/05	12/31/08
9	Contrato ramon y cajal; estudios sobre microorganismos solubilizadores de fosfatos insolubles y su actividad simultánea de control biológico	Proyecto	10/17/03	11/17/08
10	Estudios sobre microorganismos solubilizadores de fosfatos insolubles con actividad simultánea de biocontrol: sistemas de producción (a base de sustratos residuales) y formulación de inoculantes.	Proyecto	10/31/05	3/31/06
11	Morphological, physiological and biochemical changes in immobilized cells of microorganisms employed in various biotechnological processes	Proyecto	10/1/92	1/1/95
12	Application of immobilization methods of microbial cells in organic acid production	Proyecto	10/1/88	1/1/89
13	Estudios sobre microorganismos solubilizadores de fosfatos insolubles con simultánea de biocontrol: sistemas de producción (a base de sustratos residuales) y formulación de inoculantes	Proyecto	11/11/04	

Actividades 12

Titulo actividad	Entidad	Tipo	Fecha
Participación en: new york academy of sciences ()		Comité científico en sociedad ci	Aug 12, 1995
Participación en: british mycological society ()		Comité científico en sociedad ci	Mar 12, 1986
Participación en: bioencapsulation research group ()		Comité científico en sociedad ci	Jan 30, 1990
Participación en comité de revista: the scientificworldjournal		Comités científicos de revista	Jan 1, 2004
Experto comisión europea		Experiencia en evaluación	Nov 22, 2011
Experto evaluador becas lacaixa	La caixa	Experiencia en evaluación	Mar 7, 2014
Experto evaluador proyectos plan nacional		Experiencia en evaluación	Mar 7, 2014
Evaluador de la agencia para la calidad del sistema universitario de castilla y león	Evaluador de la agencia para la calidad del sistema universitario de castilla y león	Experiencia en evaluación	Jan 9, 2014
Experto evaluador de hungarian scientific research fund		Experiencia en evaluación	Feb 4, 2014
Participación en: british mycological society ()		Comité científico en sociedad ci	Jul 21, 1989
Participación en: bioencapsulation research group ()		Comité científico en sociedad ci	May 30, 1992
Experto comision europea		Experiencia en evaluación	Oct 17, 2016

Colaboradores 23

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