

The SIGMA logo consists of the word "SIGMA" in white, uppercase, sans-serif font, centered within a blue rounded rectangle. The background of the slide features a dark teal color with a network of thin, curved blue lines and small yellow dots, some of which are connected by thicker green lines, creating a sense of interconnectedness and research.

helping universities succeed

SIGMA Research

The ultimate solution for the
whole research lifecycle

Who are **we**?

We are a non-for-profit organisation made up of 10 well-known universities in Spain. We aim to boost excellency in the research and academic management



Our mission

Our mission is:

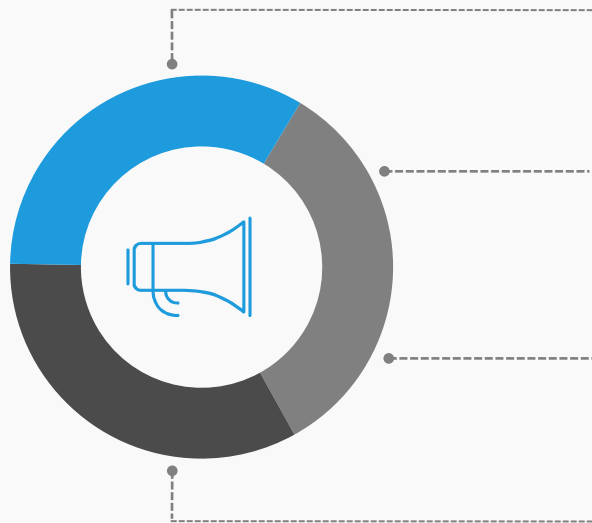
- ✓ To support higher education and research institutions
- ✓ To optimise their academic and research management processes using the best IT solutions
- ✓ To become the functional and technological model in Europe in order to boost excellency in research and higher education



5 distinguishing characteristics



Benefits



1

Adaptability

Our partners take part in the product's **roadmap** definition.

2

Costs

The **collaborative model** between partner universities, implies costs reductions in the software development

3

Best practises

We work together with experts in the field to guarantee a **'State-of-the-art' implementation.**

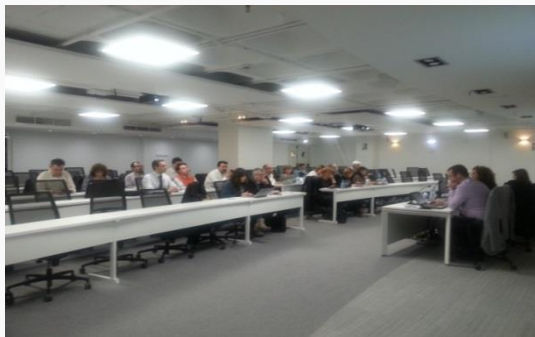
4

Quick installation and integration

Installation experienced, our products can **be intergrated with all kinds of internal and external systems.**

Our model

We work in a collaborative model which is recognised by all our partner universities. This unique model allows us to define the best solution for the minimum cost



SIGMA Committees

- Roadmap definition
- Reporting and follow up of joined projects
- Decision-making body



Working Groups

- Requirements definition and project plan
- Follow up of joined projects (sponsors)
- Testing



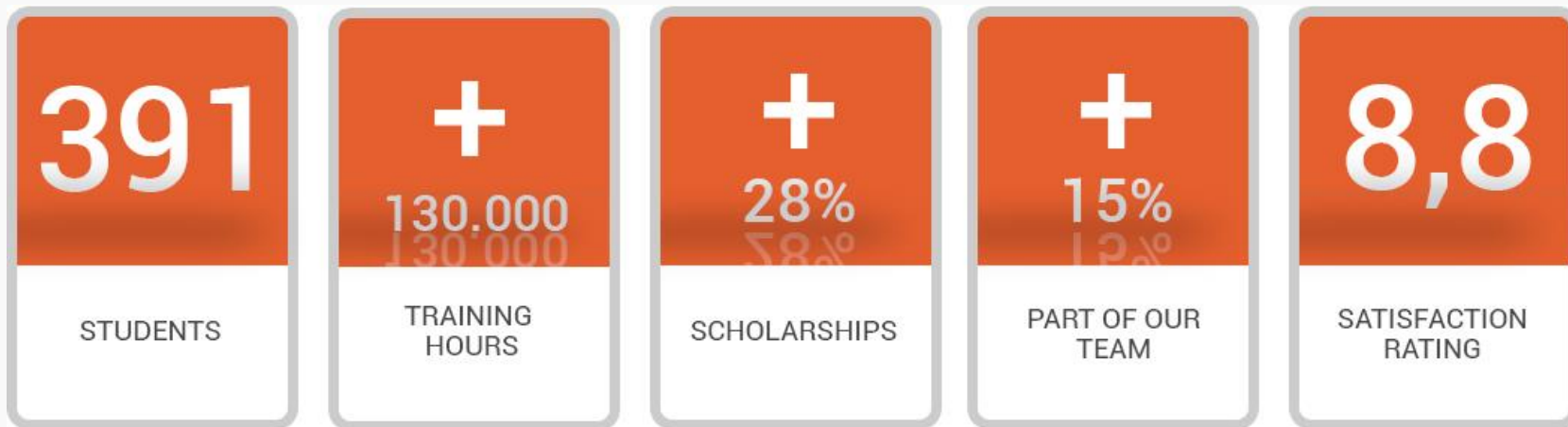
Customized Projects

- Requirements definition and project plan
- Follow up of joined projects
- Testing

Focus on Corporate Social Responsibility



With our Learning Center we contribute to the education and employability of students.



→ Internship of software programming

Recognised in the field



Penteco
Analista TIC

SIGMA has been included among the best Academic Management solutions in Spain in the Universo Penteco



Gartner®

Recognition of our SaaS solution as well as our mobile communication Apps PIZARRA. Our Learning Center has been shown as a great example of CSR

Our international projection



We actively collaborate with European higher education institutions to improve their **interoperability**, share **best practises**, and align processes **following international regulations and standards**

- We ease the cooperation between European universities and IT managers of research centers in order to facilitate the development of high quality information systems. SIGMA is a board member of EUNIS, euroCRIS, and EAIE.
- We boost the management and knowledge dissemination of European institutions' scientific production using standards such as the CERIF model.
- We support the experience exchange among institutions worldwide to encourage their internationalisation.



Our service model

SIGMA offers you a differential maintenance service; it offers proximity, quality and constant improvement.



ISO/IEC 20000-1 Certification
Management system for SIGMA Academic's service



Functional support



Portal. Reference and project management



"Bag of hours". Own developments



Maintenance, SLA, reporting, and follow up



Implementation services on demand



Coordination. Quarter reports



Customer satisfaction surveys

Technological trends

SIGMA's solutions are flexible, agile, and adapted to new digital demands.



Social

We ease collaboration among student communities as well as teaching and research staff



Mobile

Access to applications and services addressed to students and teaching communities through the App Mobile



Analytics

Advanced analytics tools to ease the information visualisation and help the decision process



Cloud

Available as a service (SaaS), no licence or infrastructure investments needed

More than a product

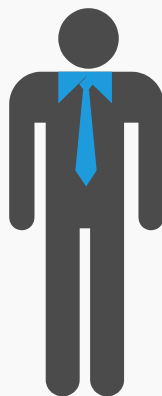
Experience



Proximity

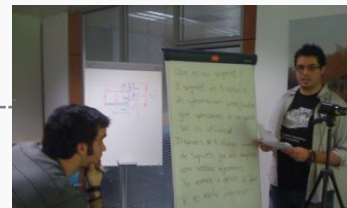


CSR



Client

Open innovation



Data analytics



Service orientation



Our solutions

Two solutions: one for academic management and the other for research management

SIGMA Academic

We support the optimisation of your academic management with best practises aligned with European standards

SIGMA Academic



SIGMA Research

We support the optimisation of your research lifecycle; from the funding process to the results share based on European standards

SIGMA Research



The solution for research

SIGMA Research. A 100% cloud solution supporting the whole research lifecycle.



An integral solution

Our solution incorporates all the needed functionalities in a state-of-the-art platform.

A sole database	Commercial databases automatic import	Connectivity with IR (Open Access)	CERIF, ORCID, and CASRAI
Scientific production management	Researcher's CVs management	Funding calls and processes	Management of projects, agreements, and contracts
Bibliometrics, data analysis, and altmetrics	Evaluation and reports	Scientific production portals	Expert directories

Strategize

An integral solution

It is not only about software implementation, it is about accompanying the institution throughout the whole process.



- Institutional research main procedures analysis
- Analysis of preexisting data
- Information load and data depuration
- Co-designing pilot process



SIGMA Research



Scientific production

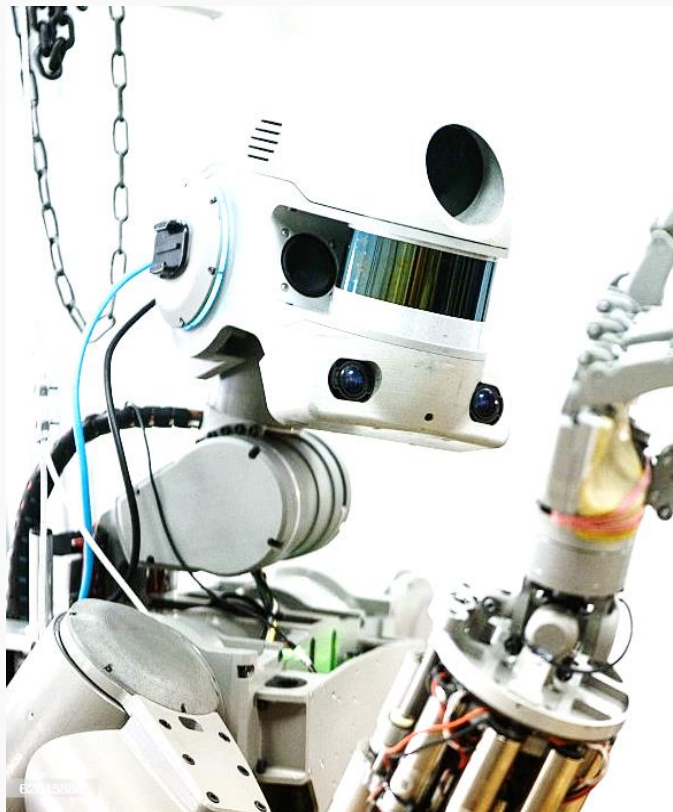
- Research activities management
- Automatic uploads, repository integration
- Project management
- Bibliometrics
- Portals and expert directories
- Reporting, and data analysis
- Visualisation



Management

- Public and private funding
- Project management
- Evaluation
- Reporting y data analysis

SIGMA Research



31/05/2017



SIGMA Research
Scientific production

SIGMA Research scientific production

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Bibliometric
indicators



Home > SANZ, FERRAN

SANZ, FERRAN

Full university professor
Department of Experimental
Sciences
Molecular Informatics Research

ferran.sanz@upf.edu
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PUBLICATIONS

Journal articles (177)
Books (4)
Book chapters (43)
Conferences (194)
Working papers (1)

CONTRACTS & GRANTS

Projects (69)
Research contracts (22)
Other grants (41)

PUBLICATIONS

Journal articles (177)

Piñero J, Bravo A, Queralt-Rosinach N, Gutiérrez-Sacristán D, Li L, Orozco NET: a comprehensive platform integrating informatics tools. *Acids Research* 2017; 45(01): 833-839.

Guàrdia-González R, Albarrán JL, Rodríguez-Espigares I, Pato H, Hildebrand PW, Martín M, Salent J. Membrane cholesterol Communications 2017; 8: 14505-0.

Mayer MA, Gutiérrez-Sacristán A, Liso A, De La Peña S, Sanz Depression and Cancer Comorbidity: Studies in Health Tech

RESEARCH

Open Access

20

Network medicine analysis of COPD multimorbidities

Solène Grosdidier¹, Antoni Ferrer², Rosa Faner³, Janet Piñero¹, Josep Roca⁴, Borja Cosío⁵, Alvar Agustí^{3,4}, Joaquim Gea², Ferran Sanz¹ and Laura I Furlong^{1*}

Abstract

Background: Patients with chronic obstructive pulmonary disease (COPD) often suffer concomitant disorders that worsen significantly their health status and vital prognosis. The pathogenic mechanisms underlying COPD multimorbidities are not completely understood, thus the exploration of potential molecular and biological linkages between COPD and their associated diseases is of great interest.

Methods: We developed a novel, unbiased, integrative network medicine approach for the analysis of the diseaseome, interactome, the biological pathways and tobacco smoke exposome, which has been applied to the study of 16 prevalent COPD multimorbidities identified by clinical experts.

Results: Our analyses indicate that all COPD multimorbidities studied here are related at the molecular and biological level, sharing genes, proteins and biological pathways. By inspecting the connections of COPD with their associated diseases in more detail, we identified known biological pathways involved in COPD, such as inflammation, endothelial dysfunction or apoptosis, serving as a proof of concept of the methodology. More interestingly, we found previously overlooked biological pathways that might contribute to explain COPD multimorbidities, such as hemostasis in COPD multimorbidities other than cardiovascular disorders, and cell cycle pathway in the association of COPD with depression. Moreover, we also observed similarities between COPD multimorbidities at the pathway level, suggesting common biological mechanisms for different COPD multimorbidities. Finally, chemicals contained in the tobacco smoke target an average of 69% of the identified proteins participating in COPD multimorbidities.

Conclusions: The network medicine approach presented here allowed the identification of plausible molecular links between COPD and comorbid diseases, and showed that many of them are targets of the tobacco smoke, proposing new areas of research for understanding the molecular underpinning of COPD multimorbidities.

Keywords: Diseaseome, Systems biology, Network medicine, Comorbidity, Multimorbidity, COPD, Tobacco chemicals

Background

Multimorbidities, including cardiovascular diseases (CVD), skeletal muscle weakness, osteoporosis, metabolic syndrome, depression and lung cancer, among others, are highly prevalent in patients with chronic obstructive pulmonary disease (COPD) [1-4] and contribute to worsen their health-status and vital prognosis [4,5]. The pathogenic mechanisms linking COPD and its concomitant diseases are incompletely understood [6], but shared risk factors

(tobacco smoking, physical inactivity, ageing) and COPD-related specific mechanisms (systemic inflammation, tissue hypoxia, abnormal protein metabolism) may potentially contribute. It is also possible that COPD and its multimorbidities share genes, proteins and pathways that explain their tendency to co-occur together in a particular patient [7-9]. A systematic investigation of this "shared component hypothesis" can provide insights to improve the prevention, early diagnosis, prognosis and/or treatment of COPD multimorbidities [9,10]. The new discipline of network medicine offers a platform to systematically explore the

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LOGIN

Department de

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31/05

U-Recerca

Scientific Production Portal UVic-UCC



Home > Search by research group

Research Group on Methodology, Methods, Models and Outcomes

Group's Scientific Production

Overview

The aim of the Group of Investigation M3O is to generate and to transfer knowledge on educational models and of attention in priests of health and social. Between the principal lines of investigation that carries out the group there consist the educational innovation and the models of promotion and education for the health; the active aging; the digital health; the models of attention, health and sport; and the advanced gerontology, all of them treated from a multidisciplinary, of integration, interuniversity and international perspective.



LINK TO THIS PAGE

Coordinator Subirana, Mireia

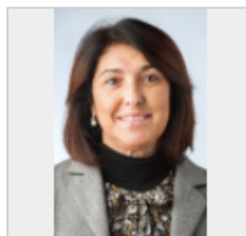
Research lines

- > Integral attention centred on the person, active aging and cognitive functioning
- > Models of attention, PBE and health and social results
- > Advanced Chronic disease
- > Digital Health
- > Health, Sport and Physical Activity
- > Innovation models for the health

Members

Buquets Alibés, Ester	Palomar-Aumatell, Xavier
Casas Baroy, Joan Carles	Parets Martínez, Carles
Castro-Prat, Ricard	Ramon-Aribau, Anna
Faro Basco, Montserrat	Rodríguez Ballón, María
Font Jugué, Cristina	Romero Mas, Montserrat
Gallago Sánchez, Vicente	Ruizol Rodríguez, Judit
Gorchs Font, Nària	Sadurni Bassols, M. Ginta
Isern Farrés, Olga	Sanz-Velasco, Constança, M. Carme
Madruga, Miquel	Subirana, Mireia
Milà Villarroel, Raimon	Valeri Junca, Xavier
Marín-Gómez, Esther	

31/05/2017

Professor Titular d'Universitat
Health Science departmentResearch Group on Methodology, Methods,
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Index H in Scopus: 7

Expertise

Promoció i educació per la salut

Recerca en infermeria

Benestar i qualitat de vida

LINK TO THIS PAGE

PUBLICATIONS

Journal articles (66)

Books (1)

Book chapters (17)

Conferences (39)

CONTRACTS & GRANTS

Projects (12)

Research contracts (1)

Other grants (2)

OTHERS

Research stays (1)

Courses and seminars given (4)

Editorial collaborations (5)

Participation on committees (1)

Recognized research number sections
(1)

PUBLICATIONS

Journal articles (66)

Zaboleta-del-Olmo, Subirana-Casacuberta, M., Ara-Pérez, A., Escudero-Rodríguez, B., Rior-Rodríguez, M., Carrés-Estevé, L., Jodar-Solà, G., Juvinyà-Canal, D. (2016). Developing Evidence-Based Practice questionnaire for community health nurses: reliability and validity of a Spanish adaptation. *Journal of Clinical Nursing*, 25(3-4), 505-517. doi: 10.1111/jocn.13078.

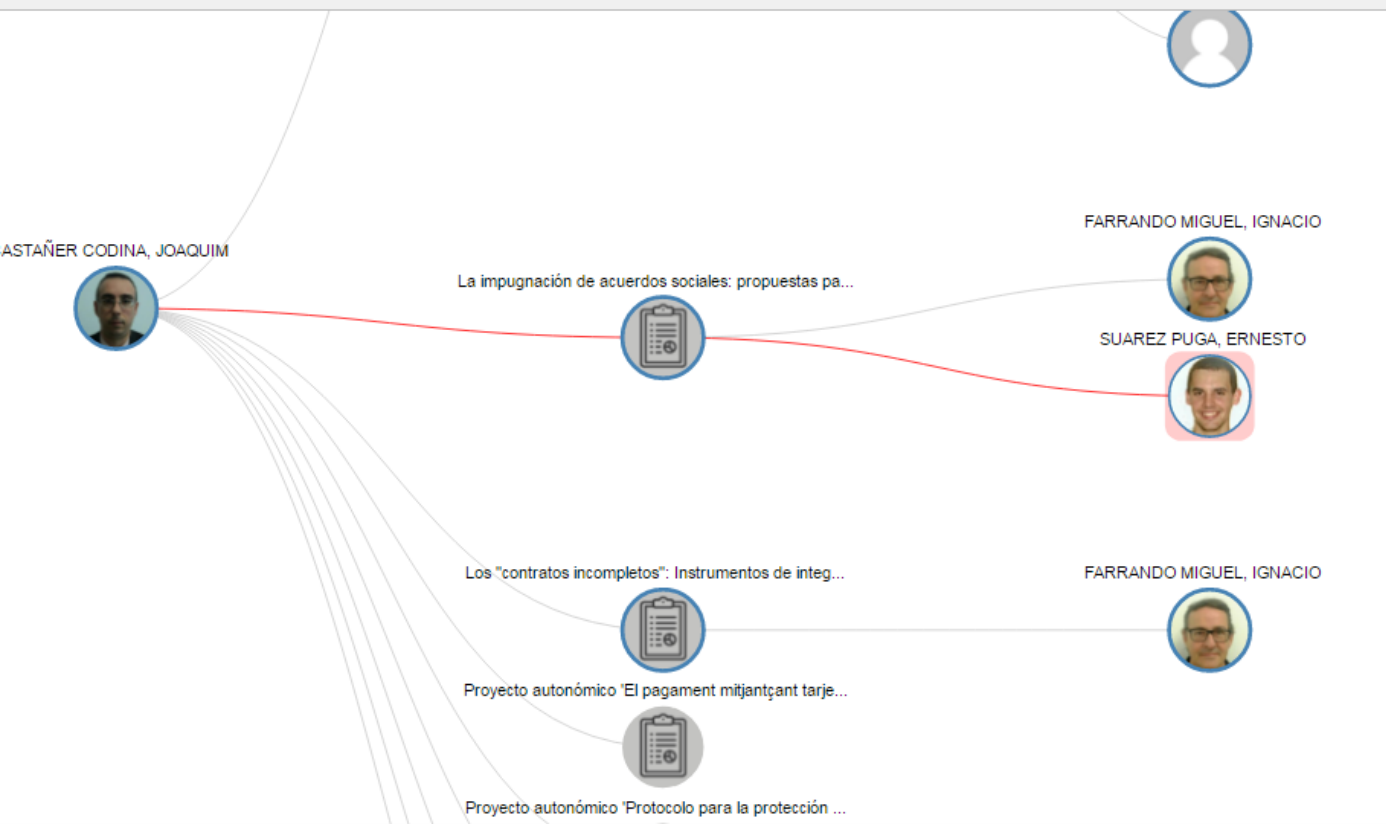
Serrano, P., Subirana, M., Gómez, A. (2016). La Biblioteca Cochrane Plus: haciendo accesible la mejor evidencia sobre los efectos de la atención sanitaria. *Metas de enfermería*, 19(9), 69-72.

Solà, M., Chirveches, E., Alsina, A., Puigoriol, E., Oriol, M., Subirana, M. (2015). La continuidad de cuidados desde el hospital de agudos: resultados. *Infermería clínica*, 25(4), 177-185. doi: 10.1016/j.enfcli.2015.04.005.

Subirana, M., Long, A., Greenhalgh, J., Firth, J. (2014). A realist logic model of the links between nurse staffing and the outcomes of Nursing. *Journal of Research in Nursing*, 19(1), 8-23.

SEE ALL

SIGMA Research scientific production



Project Map

CASTAÑER CODINA, JOAQUIM

- Visiting lecturer
- Department of Law
- Business Law of the XXI Century Research Group
- 9 Projects

[Research overview](#)

Selected node

SUAREZ PUGA, ERNESTO

- Adjunct lecturer
- Department of Law

[Research overview](#)

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If you do not reach an expert, you can
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ALBÀ SOLER, MARIA DEL MAR



Department of Experimental and Health Sciences

Areas of Research: Tl at the molecular level focus but collaborate v research lines are the indels and low-comple gene duplication in pro mammals.

Expert: Genomes com malalties. Senyals de l

BERTRANPETIT BUSQU



Department of Experimental and Health Sciences

Areas of Research: G Adaptació. Biologia evi

Expert: From the genc adaptation and population history. Pieces of our evolutionary history



Home > ALBÀ SOLER, MARIA DEL MAR

ALBÀ SOLER, MARIA DEL MAR



Adjunct lecturer

Department of Experimental and Health Sciences

Computational Genomic Research Group

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Expertise

Genomes computacionals. Evolució dels genomes. Microsatèl·lits i malalties. Senyals de transcripció regulatòria. Famílies de virus proteïcs.

PUBLICATIONS

Journal articles (69)
Book chapters (5)
Conferences (37)

CONTRACTS & GRANTS

Projects (12) 🚩
Other grants (8)

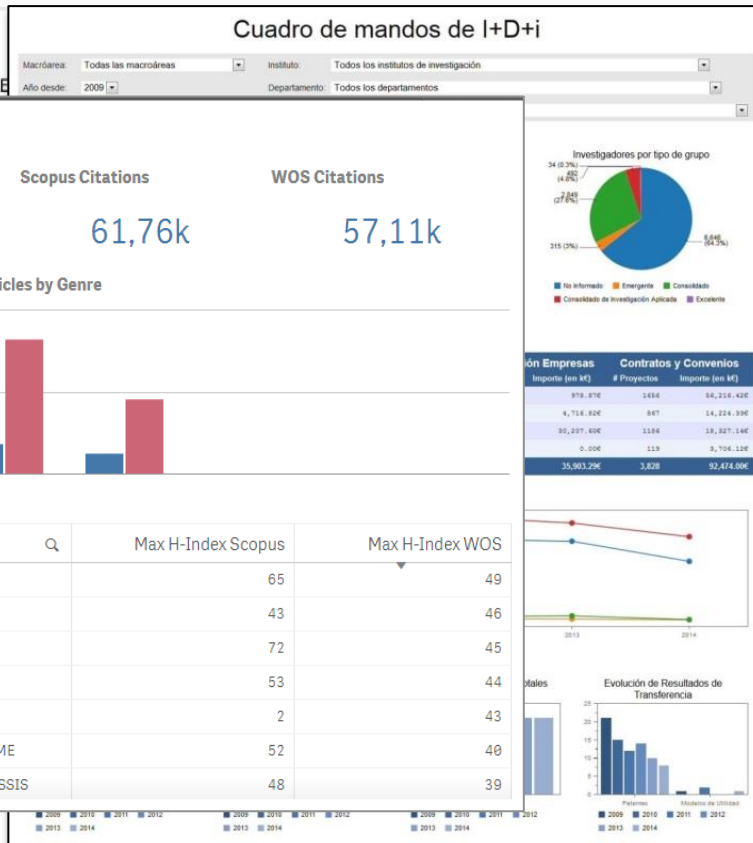
OTHERS

Doctoral thesis (10)
Awards (1)
Research stays (5)
Courses and seminars given (14)
Experience of R+D management (3)
Editorial collaborations (8)
Participation on committees (5)
Event organisation (7)
Research lines (1)
Other activities (27)

See more

SIGMA Research reports and analytics

C V I CURRÍCULUM VÍTAE



SIGMA Research scientific production

Universidad de Valladolid

PREPRODUCCION

Universidad de Valladolid

PREPRODUCCION

Mis Aplicaciones | Procesos | Acerca de | Desconexión

Gestión producción científica [GPC] Usuario - Usuario de SIGMA Perfil : GPAD Clave :0000

Actualización de mis datos >

Actualización de mis datos > Publicaciones > Artículos de revistas

Artículos de revista

Artículos de revista

JOSE RAMON LOPEZ LOPEZ

Ayuda

Guardar Volver Nuevo

Artículos de revista **Autores Universidad**

Añadir

Autor

	29619		FERNANDEZ VILLALOBOS, MARIA DE LAS NIEVES
	29608		TORRES CARRO, MARIA DE LAS MERCEDES
	24056		LOPEZ LOPEZ, JOSE RAMON

2014	1018-11 / 2	JOURNAL OF VASCULAR RESEARCH	Rediscovering the interplay between Ca ²⁺ and K ⁺ channels in essential hypertension	WOS
2014	2041-1723	NATURE COMMUNICATIONS	TRPA1 channels mediate acute neurogenic inflammation and pain produced by bacterial endotoxins	WOS



Congreso asociado

Nombre acto XVI Conference of the Society for Chemoreception 
Fecha inicio 01/07/2005

Participaciones

 Añadir

Tipo actividad	Titulo actividad	Autores
Póster	Comparative gene expression profile of mouse carotid body and adrenal medulla under physiological hypoxia	SANCHEZ ROMERO, D.; GUTIÉRREZ POZO, G.; LOPEZ LOPEZ, J.;

Añadir Participación

Tipo actividad*

Titulo actividad*

Autores*

Autores CVN Sanchez Romero D, Gutiérrez Pozo G, Lopez Lopez J

 Añadir

Autor	
	11048  SANCHEZ ROMERO, DIEGO
	1001539  GUTIERREZ POZO, GABRIEL
	24056  LOPEZ LOPEZ, JOSE RAMON

 Aceptar  Cancelar

Visible al PPC



* Campo obligatorio

SIGMA Research

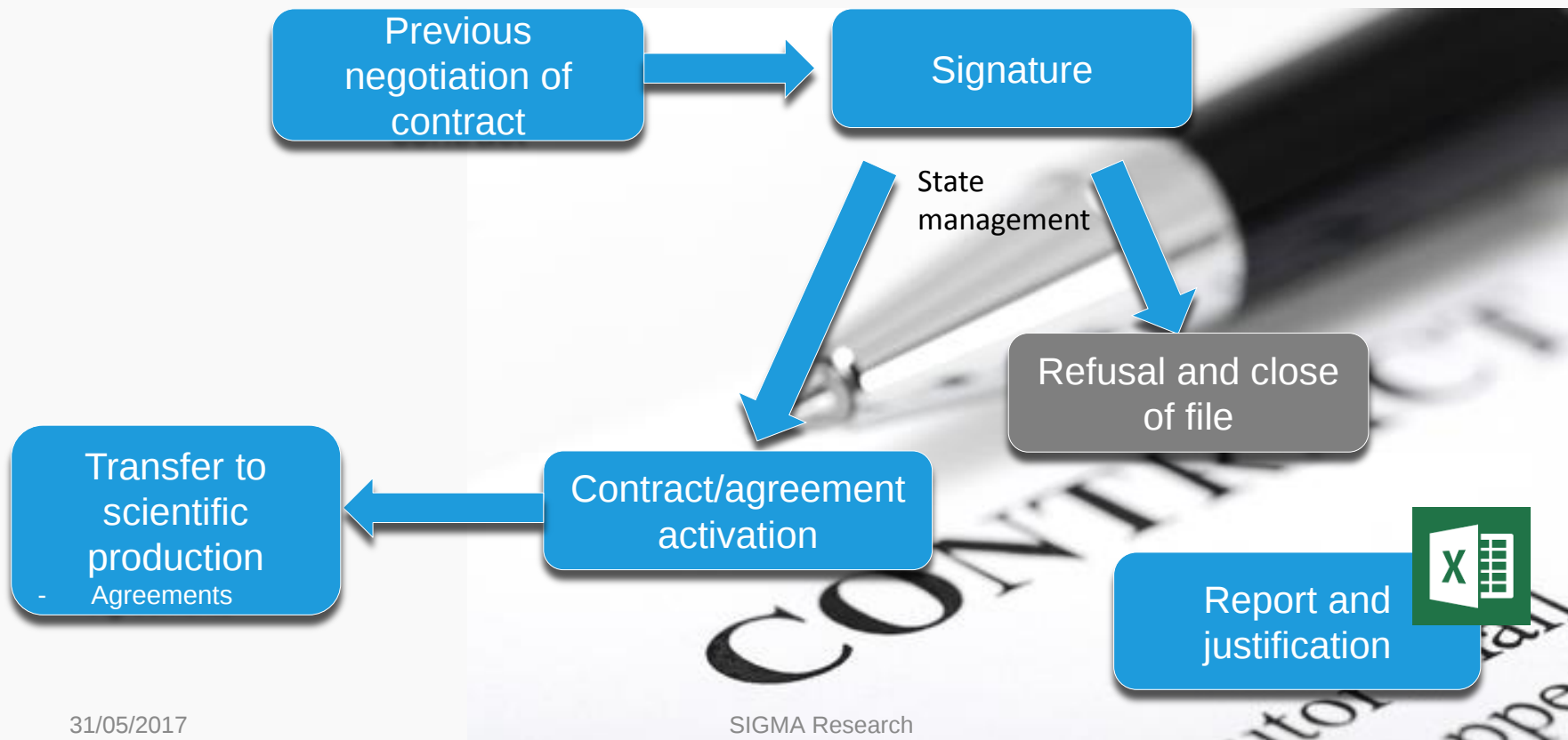


SIGMA Research Management

SIGMA Research management



SIGMA Research management



Datos Generales

Entidades

Tipo*

Entidad Convocante*

Programa*

Programa Padre

Número*

Fecha Registro*

Investigador Principi

Departamento*

Área*

Centro

Instituto Universitari

Ref. Externa

Importe Solicitado*

Importe Total Gastad

Tipo* Proyectos

Entidad*

JCYL CONSEJERÍA DE EDUCACIÓN

Programa de certificaciones

301

Apoyo a Proyectos de Investigación aplicada inicio 2000. C Educ y Cultura.

24/04/2000 a 31/12

Tipo de proyecto

Proyectos de la JCYL

Subtipo de proyecto

Centro Gestor*

Proyectos y contratos de investigación

Id. Convocatoria

0

Programa*

SINPROG

SIN PROGRAMA

Ámbito

Tipo Financiación

Público

Financiación

Externa

Fondos Europeos

Número Proyecto*

2000/00243/001

Fecha Registro*

13/06/2007

Divisa*

Euro

Investigador Principal*

Departamento*

Área*

Centro

Centro Ejecución

Instituto Universitario

Estado*

Cerrado

Fecha inicio proyecto*

10/05/2000

Fecha inicio gasto

Fecha fin de gasto

Nueva
fecha fin
Prórroga
proyecto

31/12/2004

Título*

PRODUCCIÓN DE POLLO ECOLÓGICO CON RAZAS DE GALLINAS AUTÓCTONAS CASTELLANA NEGRA Y CRUCE DE ÉSTA CON PENEDESENCA NEGRA Y CARACTERIZACIÓN PRODUCTIVA, DE LA CANAL Y DE LA CARNE

Acónimo

PRODUCCIÓN DE POLLO ECOLÓGICO CON RAZAS

Signatura

Clasificación*

Con C.Contable y con seguimiento económico

Justificación Económica*

No realizada la búsqueda

Modalidad de Coste*

A costes marginales

Ref. Interna



Añadir

Ref. Externa

VA10/00F

Ubicación del Expediente

NO

Concession and project
activation



SIGMA Research

We work to boost the research!

Thank you 4 your attention.

Anna Guillaumet

Anna.guillaumet@sigmaaie.org