

**AYUDAS JUAN DE LA CIERVA
SCIENTIFIC/TECHNICAL RECORD DURING THE LAST FIVE YEARS OF THE
RESEARCH TEAM**

1. LIST OF PEOPLE WHO MAKE UP THE RESEARCH TEAM. Indicate if it has the qualification of research group by the entity to which it belongs

The research group **MIST** – [Metrics and Innovation in Science and Technology](#) (CSIC Institute of Public Goods and Policies) has the qualification of research group at CSIC with ID 641938.

Permanent researchers

- Zaida Chinchilla Rodríguez (Científica Titular)
61 publications WoS | 1,230 citations | [0000-0002-1608-4478](#)
- María Elena Corera Álvarez (Científica Titular)
12 publications WoS | 495 citations | [0000-0002-2618-339X](#)
- Vincenzo Pavone (Científico Titular)
17 publications WoS | 294 citations | [0000-0002-2326-0118](#)
- Mauro Turrini (Científico Titular)
30 publications WoS | 114 citations | [0000-0001-8589-3271](#)
- Ferrán Pascual Catalá López will join us as a permanent researcher (Investigador Científico) in October 2024

Permanent technician

- Isidro Aguillo Caño
80 publications WoS | 1,178 citations | [0000-0001-8927-4873](#)

PhD students

- Elvira González Salmón, (FPU), September 2022-2025, [0000-0003-3826-766X](#)
- Carlos Hernández Garrido (FPI), February 2024-2028, [0000-0002-6832-4955](#)

2. SCIENTIFIC-TECHNICAL ACHIEVEMENTS AND CONTRIBUTIONS TO SOCIETY.

Indicate technological development activities and innovation, dissemination, collaboration with industry and private sector, other entities, public institutions and other end users.

The group works in the following research objectives:

1. **Dynamics and processes in the scientific and technological system** – To analyze and mapping the dynamics and flows of research activities and actors involved in research in the global science system and their impact on innovation processes, scientific impact, diversity, openness and inclusivity.
2. **Metrics, methodologies and best practices in research** – To design or adapt analytical tools and scientific systems to support decision making, fundraising and improve the efficiency of research and innovation in research centers and units.
3. **Data sources, scientific information systems and information visualization** – To develop and validate new indicators, methodologies and best practices in the field of Responsible Metrics for monitoring the implementation of Open Science.



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4. **Reports on scientific and innovative capacities** – To assess and analyze the scientific and innovation capacities of countries, institutions, research groups, and scientific domains, and their influence on the definition of scientific agendas.
5. **Strategic innovation** – To study the relationship between science, technology, and society, with emphasis on the analysis of the social impact of emerging technologies and to understand the processes, trajectories and dynamics of strategic innovation.

MOST RELEVANT RECENT PUBLICATIONS (ONLY SJR Q1)

In total, there are 21 publications in the last 5-year period published in Q1 SJR journals.

Pub Year	Res. Obj.	Citation Percen.	Title doi	Open Access	Supervisor is author
2024	3	-	<i>Why are these publications missing? Uncovering the reasons behind the exclusion of documents in free-access scholarly databases</i> doi: 10.1002/asi.24839	Yes	No
2023	3	-	<i>Science overlay maps: A tribute to Loet Leydesdorff</i> doi: 10.3145/epi.2023.dic.05	Yes	Yes
2023	1	-	<i>Collaboration strategies and corresponding authorship in Agronomy research of Brazilian academic and non-academic institutions</i> doi: 10.1007/s11192-023-04857-5	No	Yes
2023	5	-	<i>'There are many of us'. Online testimonies from 'pill victims' as a new form of health activism</i> doi: 10.1177/10497323231163741	No	No
2023	5	95 th	<i>Vitrification and bioeconomies of egg donation in the United States and Spain</i> doi: 10.1111/maq.12767	Yes	No
2022	5	67 th	<i>Genomic susceptibility in practice: The regulatory trajectory of non-rare thrombophilia (NRT) genetic tests in the clinical management of venous thrombo-embolism (VTE)</i> doi: 10.1016/j.socscimed.2020.112903	Yes	No
2022	5	96 th	<i>Global Fertility Chains: An Integrative Political Economy Approach to Understanding the Reproductive Bioeconomy</i> doi: 10.1177/0162243921996460	Yes	No



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2022	1	57 th	<i>Unveiling cognitive structure and comparative advantages of countries in knowledge domains</i> doi: 10.1177/01655515221084607	Yes	Yes
2022	1	62 th	<i>Encoding the citation life-cycle: the operationalization of a literature-aging conceptual model</i> doi: 10.1007/s11192-022-04437-z	Yes	Yes
2021	5	74 th	<i>First French study relative to preconception genetic testing: 1500 general population participants' opinion</i> doi: 10.1186/s13023-021-01754-z	Yes	No
2021	5	64 th	<i>Appraising screening, making risk in/visible. The medical debate over Non-Rare Thrombophilia (NRT) testing before prescribing the pill</i> doi: 10.1111/1467-9566.13348	Yes	No
2021	2	77 th	<i>An empirical review of the different variants of the probabilistic affinity index as applied to scientific collaboration</i> doi: 10.1007/s11192-020-03815-9	Yes	Yes
2020	2	76 th	<i>Altmetrics of the Open Access Institutional Repositories: a webometrics approach</i> doi: 10.1007/s11192-020-03424-6	Yes	No
2020	2	83 th	<i>Considering author sequence in all-author co-citation analysis</i> doi: 10.1016/j.ipm.2020.102300	Yes	Yes
2020	1	79 th	<i>Does corresponding authorship influence scientific impact in collaboration: Brazilian institutions as a case of study</i> doi: 10.1007/s11192-020-03655-7	Yes	Yes
2019	5	75 th	<i>Genetic Data, Two-Sided Markets and Dynamic Consent: United States Versus France</i> doi: 10.1007/s11948-019-00085-4	No	No
2019	5	70 th	<i>Institutional trustworthiness and national security governance: Evidence from six European countries</i> doi: 10.1111/gove.12353	Yes	No
2019	5	86 th	<i>Oocyte provision as a (quasi) social market: Insights from Spain</i>	No	No



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			doi: 10.1016/j.socscimed.2019.112381		
2019	1	89 th	<i>Follow the leader: On the relationship between leadership and scholarly impact in international collaborations</i> doi: 10.1371/journal.pone.0218309	Yes	Yes
2019	2	85 th	<i>Coping with the delineation of emerging fields: Nanoscience and Nanotechnology as a case study</i> doi: 10.1016/j.joi.2019.100976	Yes	Yes
2019	5	62 th	<i>Searching for secondary findings: considering actionability and preserving the right not to know</i> doi: 10.1038/s41431-019-0438-x	Yes	No

RECENT AND ONGOING KNOWLEDGE TRANSFER AND COLLABORATION WITH PRIVATE AND PUBLIC ENTITIES [research group members in bold]

- Colombian Ministry of Science, Technology and Innovation. Advisor to the General Directorate of Science (since 2023). Researcher: **Zaida Chinchilla Rodríguez**
- Spanish National Research Council – CoARA Comisión. External Advisors (since 2023). Researcher: **Zaida Chinchilla Rodríguez, Isidro Aguillo Caño**. Member of the commission: Elena CORERA ÁLVAREZ
- Spanish National Research Council, - Scientific Advisor to the Vice Presidency of Scientific and Technological Research. Researcher: **Elena Corera Álvarez**.
- Spanish National Research Council, Coordination of Institutional Intelligence Unit (since 2023-March). Researcher: **Elena Corera Álvarez**.
- Vicepresidencia Primera Ministerio de Asuntos Económicos y Transformación Digital - member of PERTE New Economy of Language, working group Application of Artificial Intelligence and Language Technologies tools for the management and evaluation of R&D&I (since 2023-october). **Elena Corera Álvarez**.

RECENT KNOWLEDGE TRANSFER CONTRACTS RELEVANT TO SCIENCE AND INNOVATION POLICY DESIGN IN SPAIN [research group members in bold]

- Análisis de la situación científica en Cataluña. Researcher: **Elena Corera Álvarez**. Funding body: Generalitat de Catalunya. (Contrato de Apoyo Tecnológico Referencia BDC: 20210886), (2020-2021), Funding 12,100 €
- Estudio bibliométrico sobre las publicaciones científicas de Castilla y León. (2017- 2018). Researcher: **Elena Corera Álvarez**. Funding body: Fundación Universidades y Enseñanzas Superiores. (Contrato de Apoyo Tecnológico Referencia BDC: 20192375). Funding: 6,050 €.



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3. NATIONAL RESEARCH PROJECTS. Indicate title, funding body and call for proposals, name of the principal investigator and his/her institution affiliation, date of start and end of the project and amount granted.

In the last few years, a total of 6 national projects have been led as the Principal Investigator (PI), and participation has occurred in 2 more.

Project Title	PI/Member	Funding Source / Reference Number	Duration	Funding Amount
<i>Métricas responsables para el avance de las carreras académicas (RESPONSIBLE)</i>	PI Zaida Chinchilla Rodríguez	Programa Estatal de Investigación, Desarrollo e Innovación. Proyectos de Generación de Conocimiento. Convocatoria 2021. MCIN / AEI / 10.13039/501100011033 / y la Unión Europea Next Generation EU, FEDER. (Ref. PID2021-128429NB-I00)	January 2022 December 2024	€72,600
<i>Proyectando el futuro de la predicción genética. Dando forma a los imaginarios de la susceptibilidad genómica, un estudio comparativo (IfGene)</i>	PI Mauro Turrini	Programa Estatal de Generación de Conocimiento y Fortalecimiento Científico y Tecnológico del Sistema de I+D+i – Ministerio de Ciencia e Innovación. (Ref. PID2020-115899GB-I00)	September 2021 August 2024	€72,963
<i>Genetic Susceptibility in Health Care</i>	PI Mauro Turrini	Ayudas a la atracción de talento investigador para su incorporación a grupos de investigación de la Comunidad de Madrid. 2019 modalidad 1 contratación doctores con experiencia. Programa: Plan Regional de Investigación Científica e Innovación Tecnológica de Madrid (2016-2020) – Comunidad de Madrid. (Ref. 2019-T1/SOC-14923)	April 2020 March 2024	€191,383
<i>Mitigar el riesgo en sociedades resilientes. La incorporación del conocimiento basado en la experiencia, en la prevención, gestión y recuperación de desastres ambientales (MITIGACT)</i>	Member Elvira Santiago Gómez	Ministerio de Ciencia e Innovación. (Ref. PID2019-107443RA-I00)	June 2020 May 2022	€36,300



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3. NATIONAL RESEARCH PROJECTS. Indicate title, funding body and call for proposals, name of the principal investigator and his/her institution affiliation, date of start and end of the project and amount granted.

<i>Egg Donation in Europe (EDNA)</i>	PI Vincenzo Pavone	Consejo de Investigación Económica y Social (ESRC). (Ref. ES/N010604/1)	<u>2017</u> 2020	€ 429,324
<i>Finding balance in global relationships: roles of scientific collaboration and mobility in building ties across countries</i>	PI Zaida Chinchilla Rodríguez	Consejo Superior de Investigaciones Científicas, Convocatoria I-LINK 2019. (LINKA20266)	<u>January 2020</u> December 2021	€24,000
<i>Building ties across countries: Scientific collaboration and mobility in global scientific relationships</i>	PI Zaida Chinchilla Rodríguez	Ministerio de Ciencia, Innovación y Universidades. Convocatoria de Acciones de Dinamización: EUROPA INVESTIGACIÓN 2019. Programa Estatal de I+D+I Orientado a los Retos de la Sociedad (EIN2019-102867)	<u>January 2020</u> December 2021	€12,000
<i>Innovación, patentes y los flujos de conocimiento involucrados</i>	Member Elena Corera Álvarez	Ministerio de Ciencia, Innovación y Universidades I+D+i CSO2016-75031-R	<u>December 2016</u> December 2019	€35,090

4. DOCTORAL AND POST-DOCTORAL TRAINING CAPACITY OF THE RESEARCH GROUP. Indicate a list of defended thesis or in progress, including the expected date of defense, description of the scientific and professional development of the team's graduated doctors, as well as the scientific-technical context in which the candidate is incorporated and all those activities or training programs carried out.

Researchers work in cooperation with a permanent researcher of the group in a context combining different disciplinary backgrounds (sociology, quantitative science studies, computer science, etc.). The research group provides them with a stimulating scientific environment to develop their own research agenda and opportunities to build on collaborative research with other researchers from the group and beyond. This is made possible through strong international ties built by group members over the years, notably through international associations and partnerships with institutions worldwide. Some of these collaborations include:

- Indiana University Bloomington (USA)**
Bloomington, Indiana, USA
- Georgia Institute of Technology (USA)**
Atlanta, Georgia, USA
- L'Observatoire des sciences et des technologies (Canada)**
Canada
- Department of Information Management in Pekin University (China)**



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Beijing, China

5. Center for Science and Technology Studies (CWTS)

The Netherlands

In addition, postdoctoral researchers at the MIST group are exposed to multidisciplinary research and relations with other area because IPP is located at the CCHS (Center for Social Sciences and Humanities of CSIC in Madrid) with other five institutes, and because IPP is one of the more than 120 research institutes of CSIC, in all disciplines, and the Postgraduate Unit at CSIC organizes activities and CSIC provides trainings that are regularly open to all, which offers opportunities to create networks beyond the institute. Member of the MIST group has supervised more than 10 TFMs in the last 5 years at distinct national and foreign universities. At that moment, there are 4 PhD theses in progress:

Name	Status	Estimate date	Title	Supervisors
Juan Gabriel Martínez	In progress	2024	La producción tecnocientífica de los sistemas de innovación en la generación de los espacios colaborativos de la Alianza del Pacífico	Zaida Chinchilla Rodríguez y Santos López (Universidad Autónoma de Baja California, México)
Claudia González	In progress	2025	Lo local y lo global en la actividad científica: Aporte metodológico para su caracterización desde los estudios cuantitativos de la ciencia	Zaida Chinchilla Rodríguez y Sandra E. Miguel (Universidad Nacional de La Plata, Argentina)
Elvira González Salmón	In progress	2026	La brecha de género en la ciencia y sus consecuencias para el tipo de conocimiento científico que se genera	Zaida Chinchilla Rodríguez y Nicolás Robinson García (Universidad de Granada, España)
Carlos Hernández Garrido	In progress	2028	Identificadores de autor, integración de fuentes de información y desarrollo de sistemas de información científica como herramienta de apoyo en la reforma de la evaluación científica (CoARA)	Zaida Chinchilla Rodríguez y Manuel Jesús Cobo Martín (Universidad de Granada, España)

Part of these predoctoral students have been previously working with MIST' members as JAE Intro students:

- Jorge Otín Gavín. 2022-2023. *Proyect: A perfect match*. Desarrollar un buen emparejamiento reproductivo. Supervisor: **Mauro Turrini**
- Pau Orihuela Sánchez. 2021-2022. *Proyect: Mercado e imaginario de los tests genéticos directos al consumidor en España*. Supervisor: Mauro Turrini
- Paula Eulalia Bosch García de Araoz. 2020-2021. *Proyect: Egg Donation in Europe – EDNA*. Supervisor: **Vincenzo Pavone**



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- Elvira González Salmón. 2020-2021. Proyecto: Building ties across countries: scientific collaboration and mobility in global scientific relationships. Supervisor: **Zaida Chinchilla Rodríguez**
- Pau Orihuela Sánchez. 2020-2021. Proyecto: Genomas en línea. La vida social del ADN analizada a través del estudio de caso de la genética directa al consumidor. Supervisor: **Mauro Turrini**

Members of the MIST group participate actively in master and PhD programs in Spanish Universities (Granada, Córdoba, Complutense de Madrid, Alcalá de Henares) and in French institutions (School of Midwives of University Hospital of Nantes). In this latter institution, M. Turrini also has supervised 7 master thesis.

5. INTERNATIONAL ACTIVITIES. Indicate the most important international projects in which the team has participated, the international collaborations, as well as the practices for talent attraction.

COLLABORATION WITH INTERNATIONAL ORGANISATIONS

The researchers have been involved in a wide range of international activities, including fellowships, MOUs, teaching, and leadership roles in various networks and projects. Zaida Chinchilla Rodríguez had multiple roles across different countries, spanning over a decade (2006-2024). Elena Corera Álvarez and Mauro Turrini have both been heavily involved in scientific reporting and collaboration with organizations like the FECYT and OECD. Vincenzo Pavone's activities are diverse, including membership in networks and visiting roles at prominent universities. Isidro Aguillo Caño's international experience is highlighted by his assignments in Brussels and Sydney, and his recognition as Doctor Honoris Causa by two universities.

Researcher	Activity	Date	Location
Zaida Chinchilla Rodríguez	Salvador de Madariaga's fellow	2016-2018	Indiana University Bloomington, USA
	Memorandum of Understanding (MOU) signing	Since 2016	CSIC & Indiana University
	Invited lecturer/visiting researcher	2006	Universidad de Chile
	Invited lecturer/visiting researcher	2007	Pontifica Católica de Valparaíso
	Invited lecturer/visiting researcher	2010	Universidad de Ljubljana
	Invited lecturer/visiting researcher	2013	Universidad Nacional de la Plata
	Invited lecturer/visiting researcher	2016-2018	Indiana University Bloomington
	Invited lecturer/visiting researcher	2020-2024	Peking University



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5. INTERNATIONAL ACTIVITIES. Indicate the most important international projects in which the team has participated, the international collaborations, as well as the practices for talent attraction.

	Teaching in master's/doctorate programs	Since 2020	Various Spanish Universities
	Co-director of International Network	2018-2023	Science of Team Science
	Scientific reports for organizations	-	Junta de Andalucía, Xunta de Galicia, Principado de Asturias, FECYT, Fundación CyD, Fundación COTEC, Ikerbasque, Institut Català D'investigació Química, Universitat Oberta de Catalunya, RedEmprendia; CONICYT-Chile, Pontifical Catholic University of Chile, Pontifical Catholic University of Valparaíso, CONCYTEC-Perú, Pontifical Catholic University of Peru, CONRICYT (Mexico), University of Antioquia (Colombia), World Bank, ECLAC
	Coordinator of the Yearbook of Bibliometric Indicators	2003-2015	FECYT
	Collaborator in OECD projects	Since 2003	OECD Science, Technology and Industry Scoreboard; Compendium of Bibliometric Indicators for the OECD
Elena Corera Álvarez	Scientific reports for organizations	-	Junta de Andalucía, Xunta de Galicia, Principado de Asturias, FECYT, Fundación CyD, Fundación COTEC, Ikerbasque, Institut Català D'investigació Química, Universitat Oberta de Catalunya, RedEmprendia; CONICYT-Chile, Pontifical Catholic University of Chile, Pontifical Catholic University of Valparaíso, CONCYTEC-Perú, Pontifical Catholic University of Peru, CONRICYT (Mexico), University of Antioquia (Colombia), World Bank, ECLAC
	Work team member of the Yearbook of Bibliometric Indicators	2003-2015	FECYT
	Collaborator in OECD projects	Since 2003	OECD Science, Technology and Industry Scoreboard; Compendium of Bibliometric Indicators for the OECD
Vincenzo Pavone	Member of the Science and Democracy Network	-	Science and Democracy Network, Harvard University, USA



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5. INTERNATIONAL ACTIVITIES. Indicate the most important international projects in which the team has participated, the international collaborations, as well as the practices for talent attraction.

	Visiting various universities	-	University of California, Berkeley, USA; University of York, UK; King's College London, UK; University of Quilmes, Argentina; University of Chile, Chile
	Memorandum of Understanding (MOU) signing	-	CSIC, IPP & University of Copenhagen
Mauro Turrini	Research fellow at CERMES3	-	Paris University, CNRS, Inserm
	Visiting researcher	-	King's College London, UK; University of Copenhagen, Denmark; Cermes3, France; Bologna University, Italy
	Supervising MA dissertations	-	School of Midwives of Nantes, France
	Invited speaker and seminar teacher	-	LIRAES (University Paris Descartes), France; Department of Psychology
	Member of advisory boards	Since 2022	Various international projects
	PI of the Working Package of the European project	2023-2028	MORPHEUS
Isidro Aguillo Caño	Assigned to SOST in Brussels	2000	Brussels
	Metcalf Visitor Professor	2002	University of New South Wales, Australia
	Over 400 workshops, seminars, conferences	-	Over 120 Universities worldwide
	Doctor Honoris Causa	2009	University of Indonesia
	Doctor Honoris Causa	2015	National Research Nuclear University

INTERNATIONAL R&D PROJECTS

- Prognosis Improvement of Unprovoked Venous Thromboembolism Using Personalized Anticoagulant Therapy Activity (MORPHEUS) – HORIZON-HLTH-2022-TOOL-11-01. PI: **Mauro Turrini** (Code 2022/0071). 2023-2028.
- Egg Donation in Europe (EDNA). P.I.: **Vincenzo Pavone**. Entidad financiadora: Consejo de Investigación Económica y Social (ESRC). (Ref.ES/N010604/1), 2017-2020. £429,324
- Building ties across countries: Scientific collaboration and mobility in global scientific relationships. P.I.: **Zaida Chinchilla Rodríguez**. Funded by: Ministerio de Ciencia, Innovación y Universidades. Convocatoria de Acciones de Dinamización: EUROPA INVESTIGACIÓN 2019. Programa Estatal de I+D+I Orientado a los Retos de la Sociedad (EIN2019-102867). 01/01/ 2020 - 31/12/2021 Funding: 12,000 €.