



ICREA MEMOIR 2019

# THE NEED TO KNOW

[www.icrea.cat/memoir2019](http://www.icrea.cat/memoir2019)



**THE NEED TO**

GROW

FIND

DISCOVER

DREAM

SHARE

TRANSFORM

NURTURE

EXPLAIN

COOPERATE

**Science is a universal human enterprise, and every research system has to find its own way to success.**

ICREA is an institution founded in 2001 by the Catalan government tailored to the particular needs of our research system. It has succeeded in gathering one of the most influential research communities in the world.

The mission of ICREA is to attract and retain exceptional researchers from all over the world to promote the impact and global visibility of Catalan universities and research centres.

In 2019, as many as 9 ICREA Research Professors have ranked in the top 1% most cited academics in the world.

**What is our secret?**





**We are not defined by our origins, but by our choices.**

ICREA chooses researchers through a robust, merit-based process that relies on the opinions of independent, high profile experts who look for quality and excellence, creativity and talent.

We are committed to hiring the minds that will shape the thoughts of future generations.



ICREA is a signatory of the San Francisco Declaration of Research Assessment.

ICREA is an institution without walls. ICREA Research Professors choose their host institutions within the Catalan research system where they act as research leaders and attractors of additional talent.



ICREA Research Professors can move freely within the Catalan research system keeping their ICREA position.



ICREA gathers a vibrant community of scientists and academics who contribute to the advancement of humankind by exploring, interpreting and questioning. ICREA is constantly expanding and attracting new talent.

# 265

ICREA Research Professors  
**hold permanent ICREA positions**  
as of 31st December 2019.

**125**  
in universities

**115**  
in CERCA centres

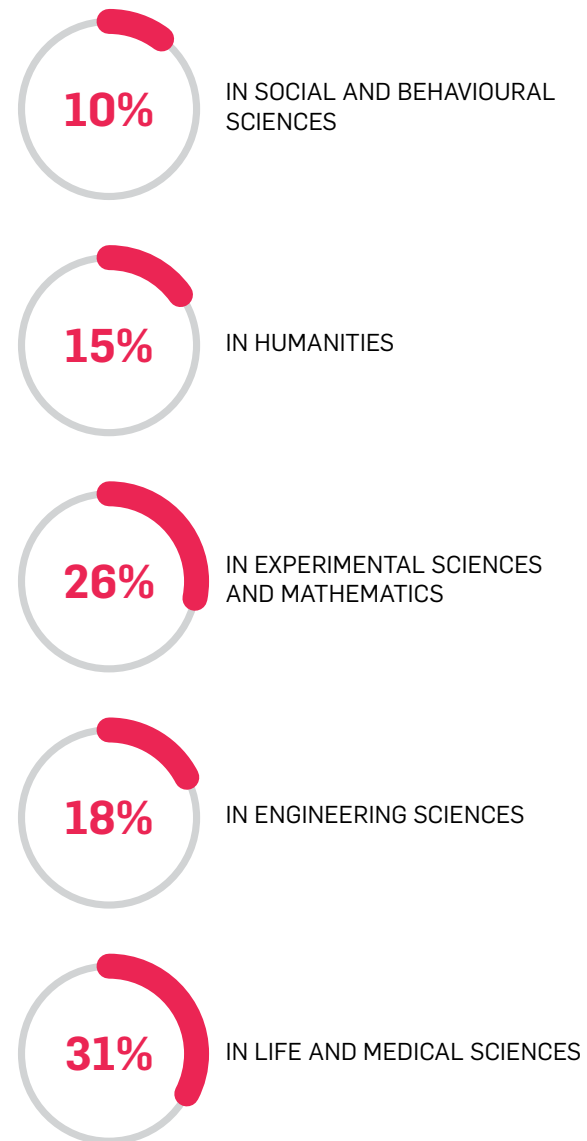
**15**  
in CSIC centres

**10**  
in other research  
institutions

An external, independent Promotion Committee regularly evaluates their performance throughout their career.



### ICREAs IN EVERY AREA



### ICREAs FROM MANY COUNTRIES



**26**

nationalities represented

**42%**

non-Spanish nationals



ICREA is a holder of the EURAXESS Human Resources Strategy For Researchers (HRS4R) badge in recognition for its outstanding HR practices.



ICREA Research Professors often attain recognition for pursuing research on the frontiers of knowledge. This year was no exception: they continued to receive major awards and honours for their contribution to the advancement of humankind through their outstanding research.

These are a few ICREA Research Professors who received awards in 2019.



**SALVADOR  
AZNAR-BENITAH**

Premio Carmen y Severo  
Ochoa de Investigación  
Biomédica



**EDUARD BATLLE**

Premi Ciutat de Barcelona  
2018, Ciències de la Vida



**JENS BIEGERT**

Friedrich Wilhelm Bessel  
Prize of the Alexander von  
Humboldt Foundation



**JOSEP DALMAU**

Premio Fundación Lilly  
de Investigación  
Biomédica-Clinica



**ROGER GOMIS**

AESICA Young Investigator Award  
2018 - Asociación Española de  
Investigación sobre el Cáncer



**NÚRIA LÓPEZ-BIGAS**

IX Premio Nacional de  
Investigación en Cáncer  
"Doctores Diz Pintado"



**NÚRIA MONTSERRAT**

Premio Iñigo Álvarez de Toledo  
de Investigación en Nefrología  
- Investigación Básica



**PURA MUÑOZ-CÁNOVES**

Premio Rei Jaume I  
en Investigación Médica/  
Medicina Clínica  
  
Premio Fundación Lilly de  
Investigación Biomédica -Preclínica



**SÍLVIA OSUNA**

Premio "Joven  
Investigador 2019" de la  
Real Sociedad Española  
de Química (RSEQ) y Lilly



**CARME ROVIRA**

Emil Fischer Award by the  
European Carbohydrate  
Organization (ECO)



**XAVIER TOLSA**

Premio Rei Jaume I  
en Investigación Básica



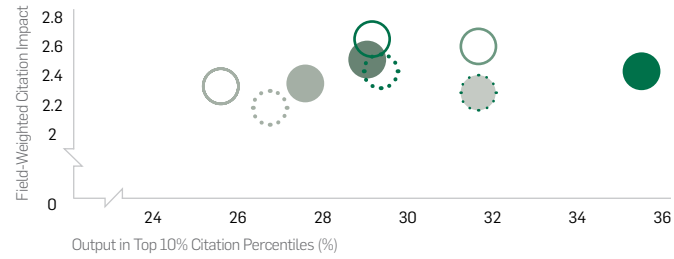
**LICIA VERDE**

Premi Nacional de  
Recerca FCRI (2018)



ICREA is among the leading research institutions in the world.

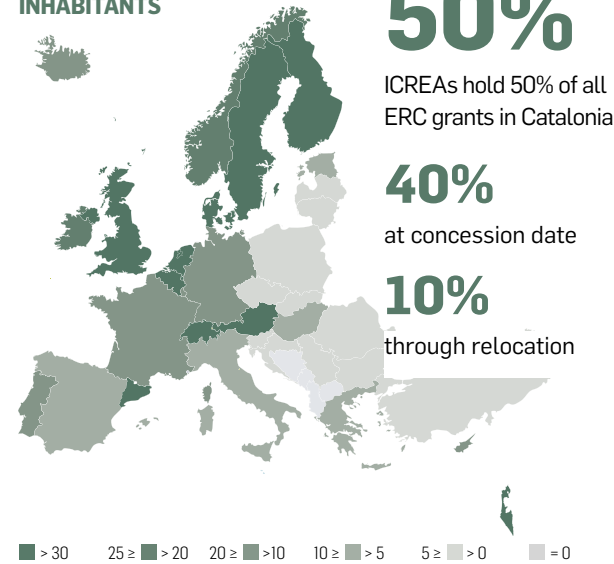
### CITATIONS AND IMPACT



Average of last decade (2010-2019)  
Source: Scival, © 2020 Elsevier.

- University of Oxford
- University of Cambridge
- Princeton University
- University of California at Berkeley
- Stanford University
- Harvard University
- California Institute of Technology (Caltech)
- Massachusetts Institute of Technology (MIT)
- ICREA

### ERC GRANTS PER MILLION INHABITANTS



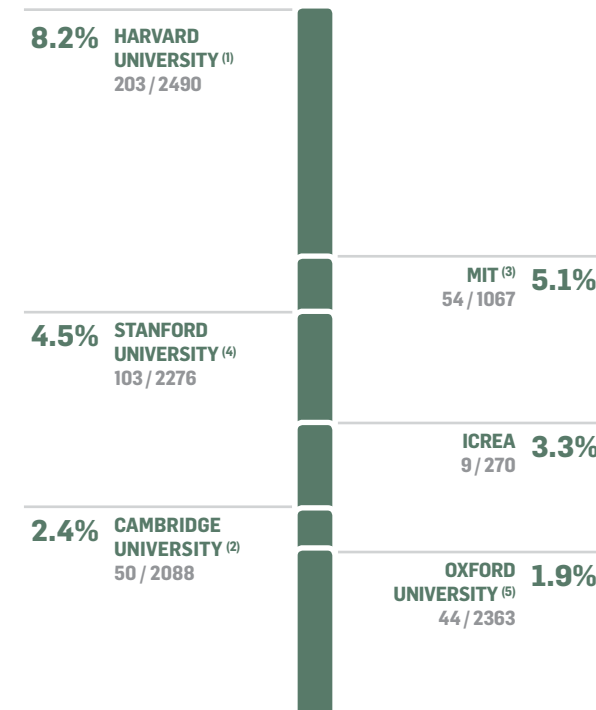


Catalan universities and research centres provide an exceptional environment for research. Thanks to this, ICREA Research Professors in 2019 have been able to continue performing beyond expectations.

This year, **9** ICREA Research Professors have been included among the **top 1% most cited researchers worldwide** by Clarivate Analytics.



### HIGHLY CITED OVER TOTAL ACTIVE PI



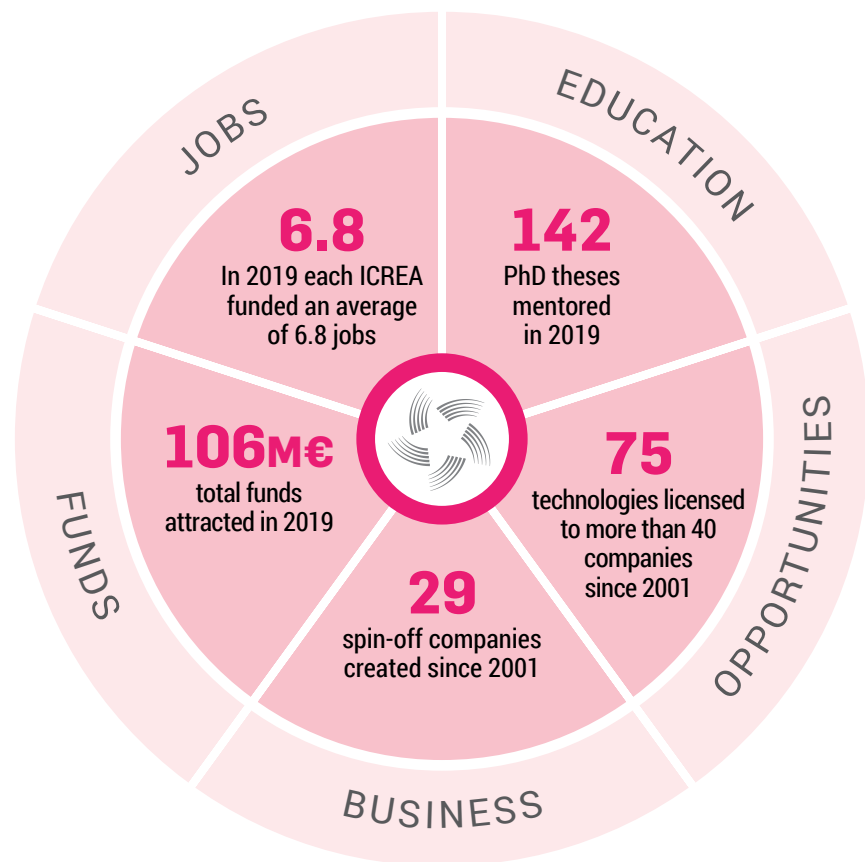
Citation scores from: Clarivate Analytics 2019  
 Number of active PI of each institution come from: (1) <https://oir.harvard.edu/fact-book/faculty-and-staff>  
 (2) <https://www.information-hub.admin.cam.ac.uk/university-profile/facts-figures>  
 (3) <http://web.mit.edu/facts/faculty.html> (4) <https://facts.stanford.edu/academics/faculty-profile/>  
 (5) <https://www.ox.ac.uk/about/facts-and-figures/staff-numbers?wssl=1>

ICREA Research Professors produce a staggering amount of high profile publications, and are an extremely influential scientific community.

**2,037** total publications  
**91%** articles in first quartile publications

There is neither basic nor translational science. There is only science, which changes the way we understand ourselves and the universe, and which eventually leads to amazing discoveries. In the meantime, it attracts funds, creates occupation and brings new technologies and opportunities.

These are some relevant figures of our achievements:



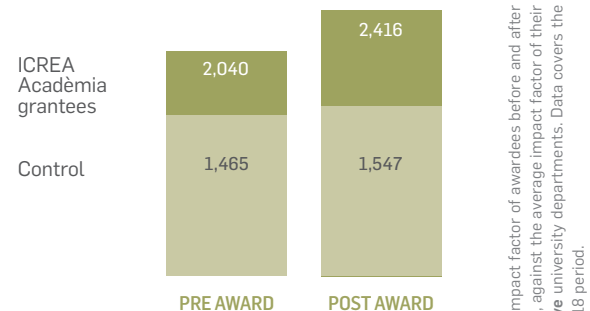
To further support research in Catalan public universities, ICREA offers research intensification grants to selected faculty who are in an expanding phase of their careers through the **ICREA Acadèmia programme**.

Over the last decade, the grant has helped awardees to increase their global impact and gain international recognition and visibility, and to increase their fund attraction by an average of 38%\*.

**269** ICREA Acadèmia grants to date

**120** active grants

**NORMALISED IMPACT**



\*Sources: ICREA, Technical Office SUR - Generalitat de Catalunya, Research Marks © Analytics & Clarivate Analytics ©

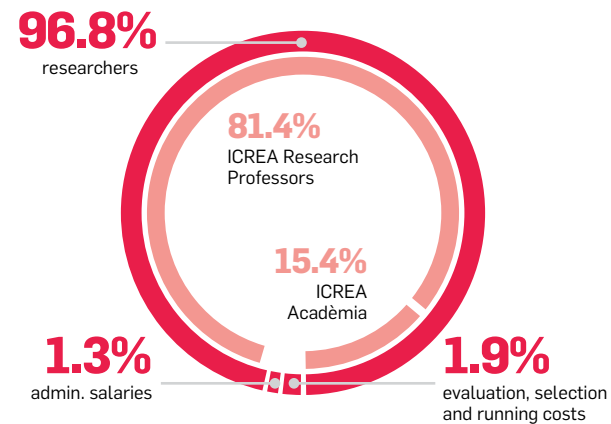
Average impact factor of awardees before and after the grant, against the average impact factor of their respective university departments. Data covers the 2008-2018 period.

This year 3 ICREA Acadèmia grantees, **Luisa F. Cabeza** (UdL), **Elías Campo** (Hospital Clínic-UB) and **Jordi Martínez Vilalta** (CREAF-UAB), are included among the top 1% most cited researchers by Clarivate Analytics.

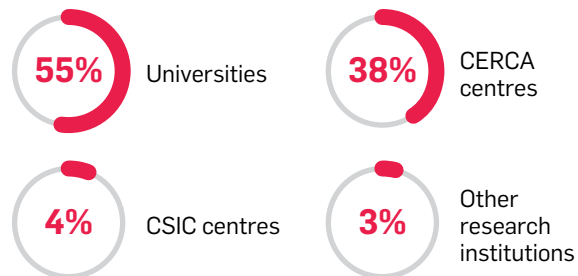




We are very proud to say that most all our funding comes from the Catalan government. We use it wisely and invest the funds with the utmost care to make sure that our resources are directly turned into the best possible science. Here is a snapshot of our budget structure.



**BUDGET ALLOCATION BY TYPE OF HOST INSTITUTION**



**100%**  
Government of Catalonia



In the end, our secret is no secret at all. ICREA is an instrument carefully crafted to meet the needs of the Catalan research system which has become a symbol of its excellence. We are very proud of having 48 host institutions allied under the same values and vision: to use research to contribute to a fairer, safer and more prosperous society for all.

**This is our secret.**

Find out more at: [www.icrea.cat/memoir2019](http://www.icrea.cat/memoir2019)



ICREA promotes the advancement of knowledge as a contribution to peace and fairness for all, to provide welfare, defend equality and guarantee freedom. All Sustainable Development Goals can flourish from knowledge and research, and ICREA Research Professors work directly on each of these goals to bring them closer every day.

**This is the world we want.**



## Our 48 host institutions

### UNIVERSITIES

Universitat de Barcelona (UB)  
Universitat Autònoma de Barcelona (UAB)  
Universitat Politècnica de Catalunya (UPC)  
Universitat Pompeu Fabra (UPF)  
Universitat de Lleida (UdL)  
Universitat de Girona (UdG)  
Universitat Rovira i Virgili (URV)  
Universitat Oberta de Catalunya (UOC)  
Universitat de Vic - Universitat Central de Catalunya (UVic-UCC)

### CERCA CENTRES

Centre Internacional de Mètodes Numèrics en Enginyeria (CIMNE)  
Centre de Medicina Regenerativa de Barcelona (CMRB)  
Centre de Recerca en Agrigenòmica (CRAG)  
Centre de Recerca Ecològica i Aplicacions Forestals (CREAF)  
Centre de Regulació Genòmica (CRG)  
Centre de Recerca Matemàtica (CRM)  
Institut de Bioenginyeria de Catalunya (IBEC)  
Institut Català d'Arqueologia Clàssica (ICAC)  
Institut de Ciències Fotòniques (ICFO)  
Institut Català d'Investigació Química (ICIQ)  
Institut Català de Nanociència i Nanotecnologia (ICN2)  
Institut Català de Paleontologia (ICP)  
Institut Català de Recerca de l'Aigua (ICRA)  
Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS)  
Institut d'Investigació Biomèdica de Bellvitge (IDIBELL)  
Institut de Física d'Altes Energies (IFAE)  
Institut d'Investigació en Ciències de la Salut Germans Trias i Pujol (IGTP)

Institut de Recerca contra la Leucèmia Josep Carreras (IJC)  
Institut Hospital del Mar d'Investigacions Mèdiques (IMIM)  
Institut Català de Paleoecologia Humana i Evolució Social (IPHES)  
Institut de Recerca Biomèdica de Barcelona (IRB Barcelona)  
Institut de Recerca en Energia de Catalunya (IREC)  
Institut de Recerca de la Sida - IrsiCaixa (IrsiCaixa)  
Institut de Recerca i Tecnologia Agroalimentàries (IRTA)  
Institut de Salut Global Barcelona (ISGlobal)  
Vall d'Hebron Institut d'Oncologia (VHIO)  
Vall d'Hebron Institut de Recerca (VHIR)

### CSIC CENTRES

Centre d'Estudis Avançats de Blanes (CSIC - CEAB)  
Institut de Biologia Evolutiva (CSIC - IBE)  
Institut de Biologia Molecular de Barcelona (CSIC - IBMB)  
Institut de Ciències de l'Espai (CSIC - ICE)  
Institut de Ciències del Mar (CSIC - ICM)  
Institut de Ciència de Materials de Barcelona (CSIC - ICMA)  
Institute of Microelectronics of Barcelona - Centre Nacional de Microelectrònica (CSIC - IMB-CNM)  
Institució Milà i Fontanals (CSIC - IMF)

### OTHER RESEARCH INSTITUTIONS

Barcelona Supercomputing Center - Centro Nacional de Supercomputación (BSC - CNS)  
FIDMAG Hermanas Hospitalarias (FIDMAG)  
Institute for Political Economy and Governance (IPEG)  
Institut de Recerca Sant Joan de Déu (IRSJD)



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