



*institució catalana de recerca i estudis avançats

Research Report 2005

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Introduction

Since its beginning in 2001, ICREA's purpose has been the promotion of research, in all fields of knowledge, in Catalonia. ICREA's main instrument towards this goal is the offering of permanent senior positions. Starting in 2005, ICREA is also giving the opportunity to young researchers to join the R+D Catalan System through the ICREA Junior program which is divided into Junior Academia and Junior Empresa, the latter aiming to bring scientists into the private sector. ICREA researchers become members of teams working in Catalan research institutions: Universities, CSIC, and other research centres, and in the case of junior researchers also in companies.

ICREA has been able to attract distinguished researchers in many fields and from different countries. The first researchers joined ICREA in October 2001, and by the end of 2005 there were already 115, two thirds of them coming from abroad. Most of the researchers appointed in the first four years of ICREA are now fully integrated and their scientific production justifies their incorporation into our research system.

This research report summarizes the work done during 2005. Publications are the most visible part of research, but we must also take into consideration other elements that show the contribution of our researchers to the improvement of the Catalan R+D system: creation of new research teams and opening of new research lines, consolidation of existing teams and research areas, tutoring of doctoral dissertations, teaching at all academic levels, etc. Another important indicator of the activity, organization skills, and scientific relevance of our researchers is the amount of funding competitively obtained from different agencies and organisations that support scientific research. Thus, the data contained in the report attempt to quantify not only the scientific production of our researchers but also their broader impact on the research system. The data are based on the information provided by the 115 senior researchers that were active during 2005. Since the ICREA junior program started in 2005 and at the end of the year we only had 5 junior researchers already appointed, the activity of the junior ICREA researchers will be reflected for the first time in next year's report.

Naturally, the figures and conclusions presented here need some further explanation. It should be taken into account that each area of research is ruled by its own codes. Some areas publish more than others. In some areas the books and publications out of the ISI database have more importance than in others. We should also keep in mind that some researchers have been at ICREA for a short time and the results published in some of the papers that appear in this report may have been obtained while working in other institutions. Nevertheless, it should also be mentioned that the adaptation to a new working environment, a new status, and getting to know the new rules of our administration may result in a temporary lower production level. All taken into account, the data presented in this report attest to the quality of our researchers and strengthens ICREA's role as an efficient institution in attracting researchers to Catalonia.

ICREA Researchers

List of ICREA researchers and hosting institutions at 31/12/2005, in alphabetical order and by area of research.

Experimental Sciences and Mathematics

Ahufinger Breto, Verònica - Universitat Autònoma de Barcelona (UAB)
Asperó Herrando, David - Universitat de Barcelona (UB)
Bagaria i Pigrau, Joan - Universitat de Barcelona (UB)
Ballester Balaguer, Pau - Institut Català d'Investigació Química (ICIQ)
Barril, Xavier - Universitat de Barcelona (UB)
Cabrè Vilagut, Xavier - Universitat Politècnica de Catalunya (UPC)
Camerlenghi, Angelo - Universitat de Barcelona (UB)
Cano Boquera, Joan - Universitat de Barcelona (UB)
Carrillo de la Plata, José Antonio - Universitat Autònoma de Barcelona (UAB)
Emparan García de Salazar, Roberto - Universitat de Barcelona (UB)
Friedman, Sy David - Centre de Recerca Matemàtica (CRM)
Hardy, Stuart - Universitat de Barcelona (UB)
Jamin, Matthias - Institut de Física d'Altes Energies (IFAE)
Lewenstein, Maciej - Institut de Ciències Fotòniques (ICFO)
Martínez Pinedo, Gabriel - Institut d'Estudis Espacials de Catalunya (IEEC)
Miralda Escudé, Jordi - Institut d'Estudis Espacials de Catalunya (IEEC)
Neyman, Konstantin - Universitat de Barcelona (UB)
Odintsov, Serguei - Institut d'Estudis Espacials de Catalunya (IEEC)
Pérez Ramírez, Javier - Institut Català d'Investigació Química (ICIQ)
Petrov, Dmitri - Institut de Ciències Fotòniques (ICFO)
Petrovic, Mira - Institut d'Invest. Químiques i Ambientals de Barcelona (IIQAB - CSIC)
Puntes, Víctor - Institut Català de Nanotecnologia (ICN)
Quirós, Mariano - Institut de Física d'Altes Energies (IFAE)
Rodó López, Xavier - Parc Científic de Barcelona (PCB)
Rodríguez Ranero, César - Institut de Ciències del Mar (ICM - CSIC)
Rosell i Melé, Antoni - Universitat Autònoma de Barcelona (UAB)
Russo, Jorge Guillermo - Universitat de Barcelona (UB)
Sanpera Trigueros, Anna - Universitat Autònoma de Barcelona (UAB)
Simó Marfà, Juan Antonio - Universitat Politècnica de Catalunya (UPC)
Tolsa Domènech, Xavier - Universitat Autònoma de Barcelona (UAB)
Vidal Ferran, Anton - Institut Català d'Investigació Química (ICIQ)

Vilar Compte, Ramon - Institut Català d'Investigació Química (ICIQ)

Voityuk, Alexander - Universitat de Girona (UdG)

Zahn, Rainer - Universitat Autònoma de Barcelona (UAB)

Humanities

Agustí Ballester, Jordi - Universitat Rovira i Virgili (URV)

Alberni Jordà, Anna - Universitat de Girona (UdG)

Albert , Rosa Maria - Universitat de Barcelona (UB)

Burjachs Casas, Francesc - Universitat Rovira i Virgili (URV)

Cau Ontiveros, Miquel Angel - Universitat de Barcelona (UB)

de Mora Charles, María Sol - Universitat Politècnica de Catalunya (UPC)

Farwell, David L. - Universitat Politècnica de Catalunya (UPC)

Gómez Torrente, Mario - Universitat de Barcelona (UB)

Hauser, Kai - Universitat de Barcelona (UB)

Hoefler, Carl - Universitat Autònoma de Barcelona (UAB)

Madella, Marco - Institució Milà i Fontanals (IMF - CSIC)

Martí Campillo, Genoveva - Universitat de Barcelona (UB)

Martínez Navarro, Bienvenido - Universitat Rovira i Virgili (URV)

Montón Subías, Sandra - Universitat Autònoma de Barcelona (UAB)

Prieto Vives, Pilar - Universitat Autònoma de Barcelona (UAB)

Quer Villanueva, Josep - Universitat de Barcelona (UB)

Rodríguez Fornells, Antoni - Universitat de Barcelona (UB)

Soto Faraco, Salvador - Parc Científic de Barcelona (PCB)

Torruella Casañas, Joan - Universitat Autònoma de Barcelona (UAB)

Wanner, Leo - Universitat Pompeu Fabra (UPF)

Life and Medical Sciences

Albà Soler, Mar - Institut Municipal d'Investigació Mèdica (IMIM)

Bach Ariza, Àlex - Institut de Recerca i Tecnologia Agroalimentàries (IRTA)

Batlle Gómez, Eduard - Institut de Recerca Biomèdica (IRBB - PCB)

Bofill i Soliguer, Margarida - IrsiCaixa

Chillón Rodríguez, Miguel - Universitat Autònoma de Barcelona (UAB)

Christou Paul - Universitat de Lleida (UdL)

Daura Ribera, Xavier - Universitat Autònoma de Barcelona (UAB)

de la Cruz Montserrat, Francisco Javier - Institut de Recerca Biomèdica (IRBB - PCB)

de la Luna Gargantilla, Susana - Centre de Regulació Genòmica (CRG)

Di Croce, Luciano - Centre de Regulació Genòmica (CRG)

Eyras Jiménez, Eduardo - Universitat Pompeu Fabra (UPF)
Galea, Elena - Universitat Autònoma de Barcelona (UAB)
González, Cayetano - Institut de Recerca Biomèdica (IRBB - PCB)
Graf, Thomas - Centre de Regulació Genòmica (CRG)
Jiménez Cañero, Gerardo – Inst. de Biologia Molecular de Barcelona (IBMB - CSIC)
Jordana Torrellas, Manel - Institut Municipal d'Investigació Mèdica (IMIM)
Macías Hernández, M^a Jesús - Institut de Recerca Biomèdica (IRBB - PCB)
Martin, Roland - Institut de Recerca Hospital Univ. Vall d'Hebron (IRHUVH)
Martínez García, Jaime Francisco – Inst. de Biologia Molecular de Barcelona (IBMB - CSIC)
Martínez Serra, Pere - Universitat de Barcelona (UB)
Milán, Marco - Institut de Recerca Biomèdica (IRBB - PCB)
Pelaz, Soraya – Inst. de Biologia Molecular de Barcelona (IBMB - CSIC)
Pérez Enciso, Miguel - Universitat Autònoma de Barcelona (UAB)
Pujol, Aurora - Institut de Recerca Oncològica (IRO)
Raya Chamorro, Àngel - Centre de Medicina Regenerativa de Barcelona (CMRB)
Ribas de Pouplana, Lluís - Institut de Recerca Biomèdica (IRBB - PCB)
Seoane Suárez, Joan - Institut de Recerca Hospital Univ. Vall d'Hebron (IRHUVH)
Serrano Pubull, Luís - Centre de Regulació Genòmica (CRG)
Slafer, Gustavo - Universitat de Lleida (UdL)
Solé, Ricard V. - Universitat Pompeu Fabra (UPF)
Sospedra Ramos, Mireia - Institut de Recerca Hospital Univ. Vall d'Hebron (IRHUVH)
Supèr, Hans - Universitat de Barcelona (UB)
Usón Finkenzeller, Isabel – Inst. de Biologia Molecular de Barcelona (IBMB - CSIC)
Valcárcel Juárez, Juan - Centre de Regulació Genòmica (CRG)
Vernos, Isabel - Centre de Regulació Genòmica (CRG)
Vila Bover, Miquel - Institut de Recerca Hospital Univ. Vall d'Hebron (IRHUVH)

Social Sciences

Baizán Muñoz, Pau - Universitat Pompeu Fabra (UPF)
Calvó-Armengol, Antoni - Universitat Autònoma de Barcelona (UAB)
Cánova, Fabio - Universitat Pompeu Fabra (UPF)
Ciccione, Antonio - Universitat Pompeu Fabra (UPF)
Coles, Melvyn - Institut d'Anàlisi Econòmica (IAE - CSIC)
Hogarth, Robin - Universitat Pompeu Fabra (UPF)
Vives Torrents, Xavier - Universitat Pompeu Fabra (UPF)
Voth, Joachim - Universitat Pompeu Fabra (UPF)

Technology

Baeza Yates, Ricardo - Universitat Pompeu Fabra (UPF)
Chen, Du Xing - Universitat Autònoma de Barcelona (UAB)
Deco, Gustavo - Universitat Pompeu Fabra (UPF)
Ebrahim-Zadeh, Majid - Institut de Ciències Fotòniques (ICFO)
García Parajo, María - Parc Científic de Barcelona (PCB)
Geffner Sclarsky, Hector - Universitat Pompeu Fabra (UPF)
Goñi, Alejandro - Institut de Ciència de Materials de Barcelona (ICMAB - CSIC)
Laukhin, Vladimir - Institut de Ciència de Materials de Barcelona (ICMAB - CSIC)
Neumann, László - Universitat de Girona (UdG)
Nogués Sanmiquel, Josep - Universitat Autònoma de Barcelona (UAB)
O'Sullivan, Ciara - Universitat Rovira i Virgili (URV)
Rosell Llompart, Joan - Universitat Rovira i Virgili (URV)
Sánchez Peña, Ricardo - Universitat Politècnica de Catalunya (UPC)
Skumryev, Vassil - Universitat Autònoma de Barcelona (UAB)
Sort Viñas, Jordi - Universitat Autònoma de Barcelona (UAB)
Staliunas, Kestutis - Universitat Politècnica de Catalunya (UPC)
Van Hulst, Niek - Institut de Ciències Fotòniques (ICFO)

Host Institutions

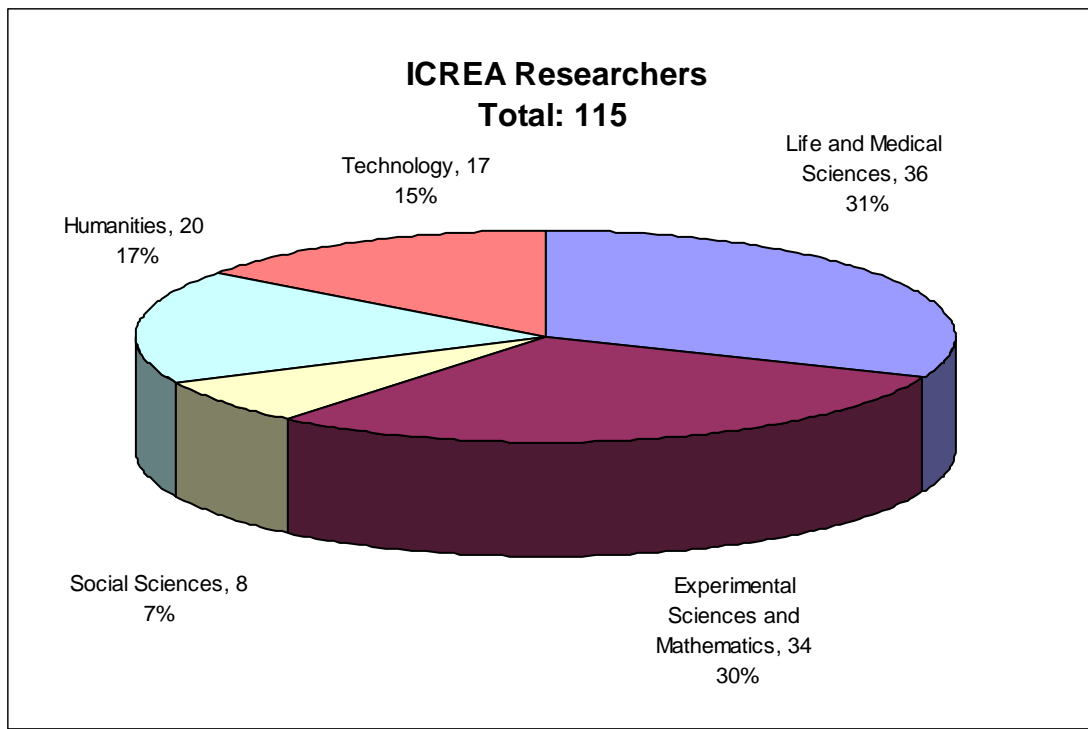
Host institutions and their number of ICREA researchers at 31/12/2005.

Universities	ICREA Researchers
Universitat Autònoma de Barcelona (UAB)	19
Universitat de Barcelona (UB)	18
Universitat de Girona (UdG)	3
Universitat de Lleida (UdL)	2
Universitat Politècnica de Catalunya (UPC)	6
Universitat Pompeu Fabra (UPF)	12
Universitat Rovira i Virgili (URV)	5
 Centres CERCA¹ (Centres de Recerca de Catalunya)	
Institut d'Estudis Espacials de Catalunya (IEEC)	3
Centre de Medicina Regenerativa de Barcelona (CMRB)	1
Centre de Recerca Matemàtica (CRM)	1
Centre de Regulació Genòmica (CRG)	6
Institut Català d'Investigació Química (ICIQ)	4
Institut Català de Nanotecnologia (ICN)	1
Institut de Ciències Fotòniques (ICFO)	4
Institut de Física d'Altes Energies (IFAE)	2
Institut de Recerca Biomèdica de Barcelona (IRBB – PCB)	6
Institut de Recerca i Tecnologia Agroalimentàries (IRTA)	1
 Consejo Superior de Investigaciones Científicas (CSIC)	
Institut d'Anàlisi Econòmica (IAE)	1
Institut de Biologia Molecular de Barcelona (IBMB)	4
Institut de Ciència de Materials de Barcelona (ICMAB)	2
Institut de Ciències del Mar (ICM)	1
Institut d'Investigacions Químiques i Ambientals de Barcelona (IIQAB)	1
Institució Milà i Fontanals (IMF)	1
 Other Research Centres in Catalonia	
Fundació IrsiCaixa	1
Institut Municipal d'Investigació Mèdica (IMIM)	2
Institut de Recerca Hospital Universitari Vall d'Hebron (IRHUVH)	4
Institut de Recerca Oncològica (IRO)	1
Parc Científic de Barcelona (PCB)	3

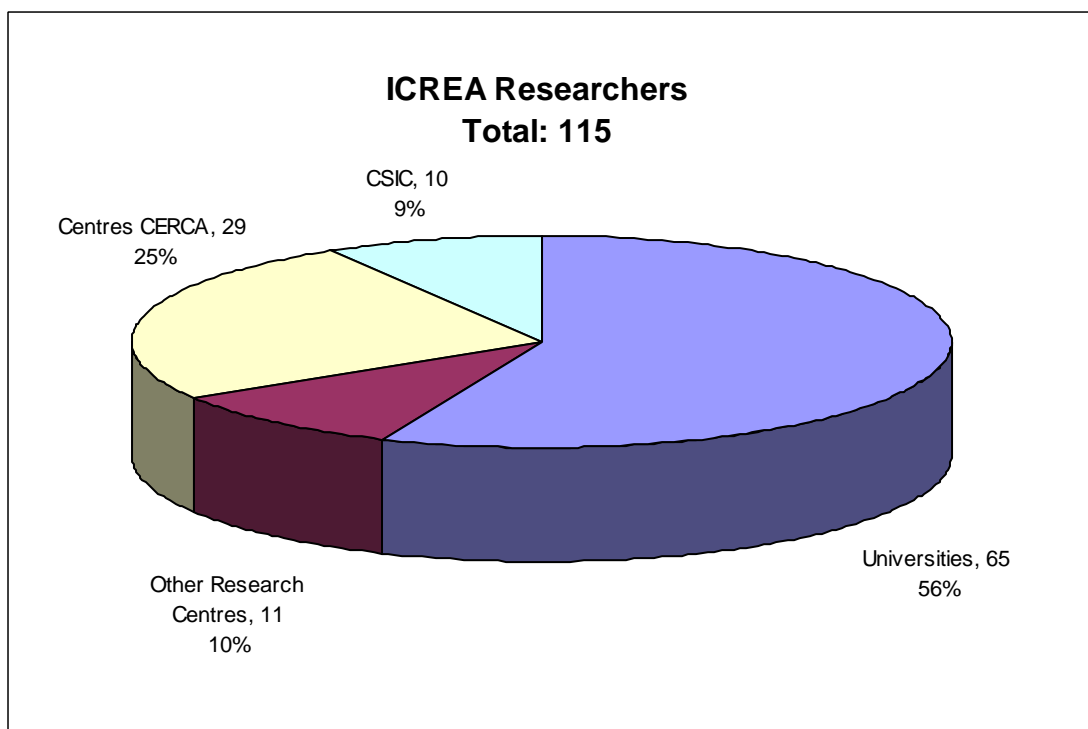
¹ Centres CERCA. Grup of research centres in Catalonia that have signed a *Contracte Progama* with the Catalan Government.

Charts

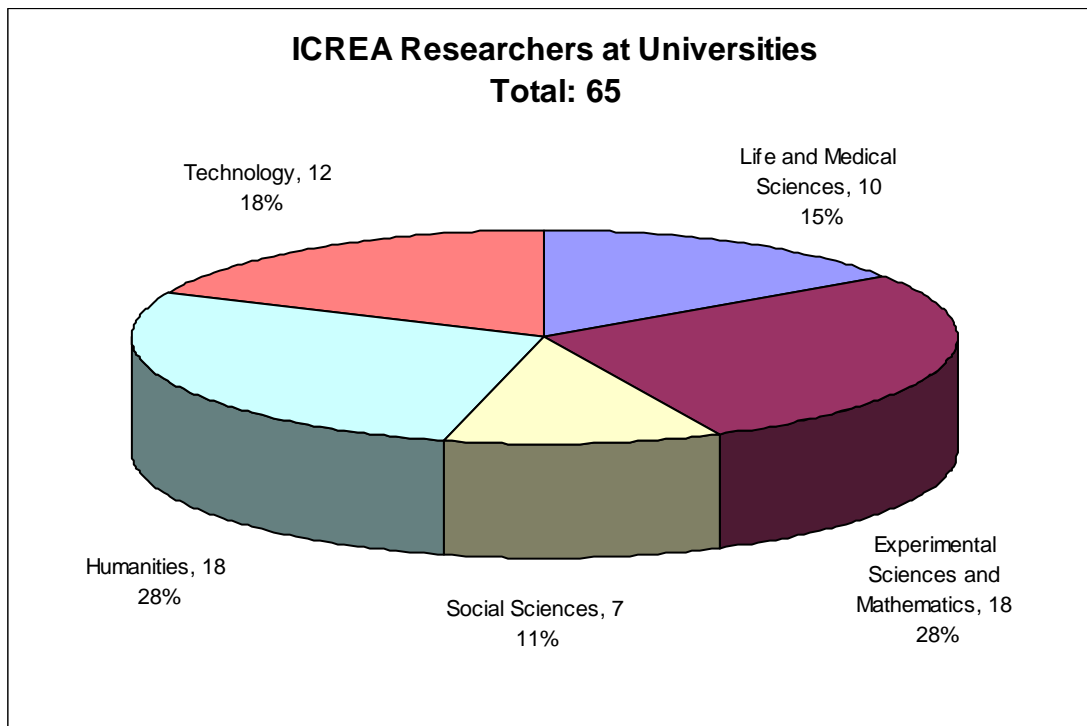
Number of ICREA researchers, by area of research.



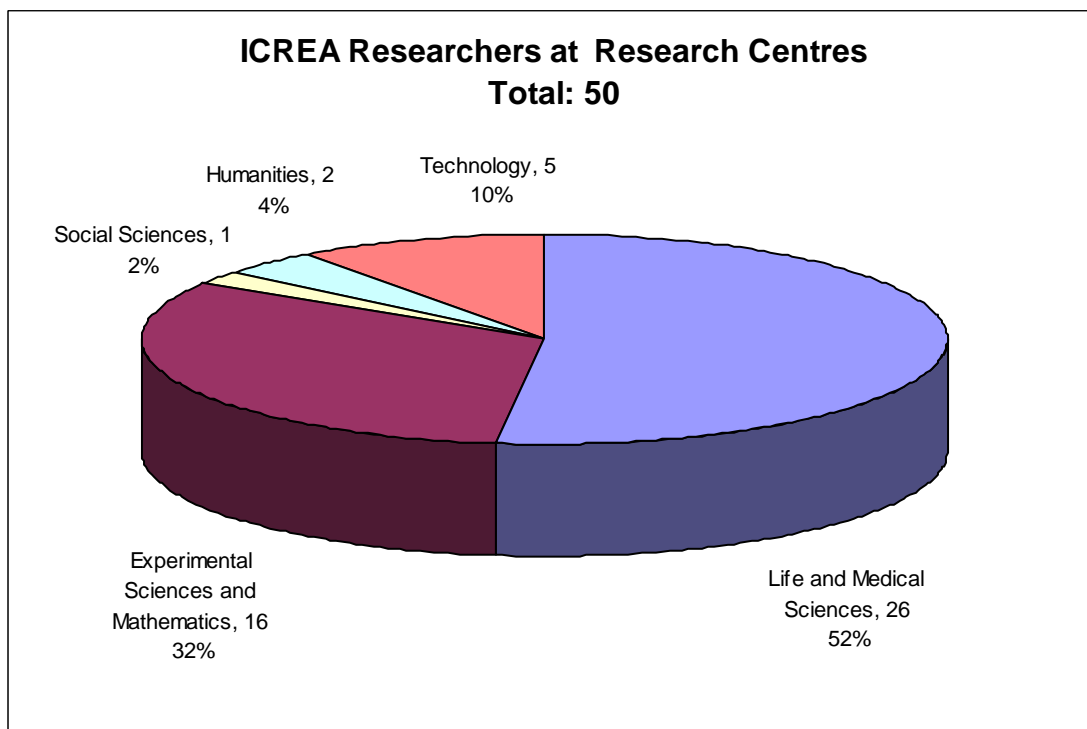
Number of ICREA researchers in different types of host institutions: universities, Centres CERCA, *Consejo Superior de Investigaciones Científicas* (CSIC), and other research centres.



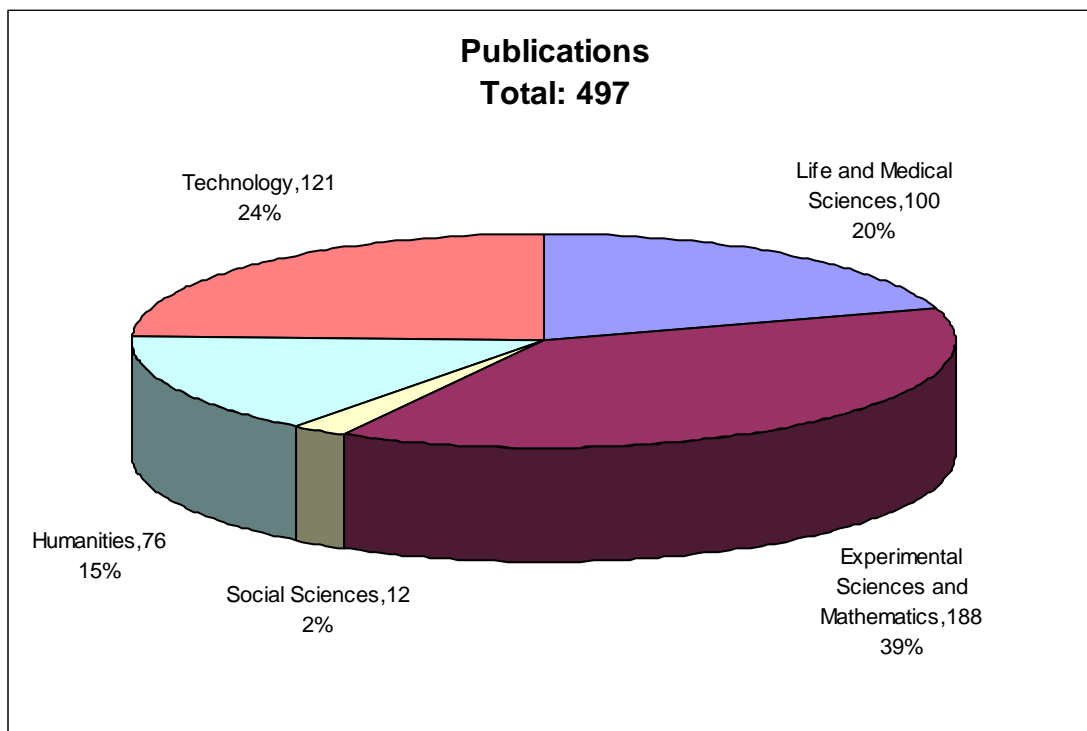
Number of ICREA researchers at universities, by area of research.



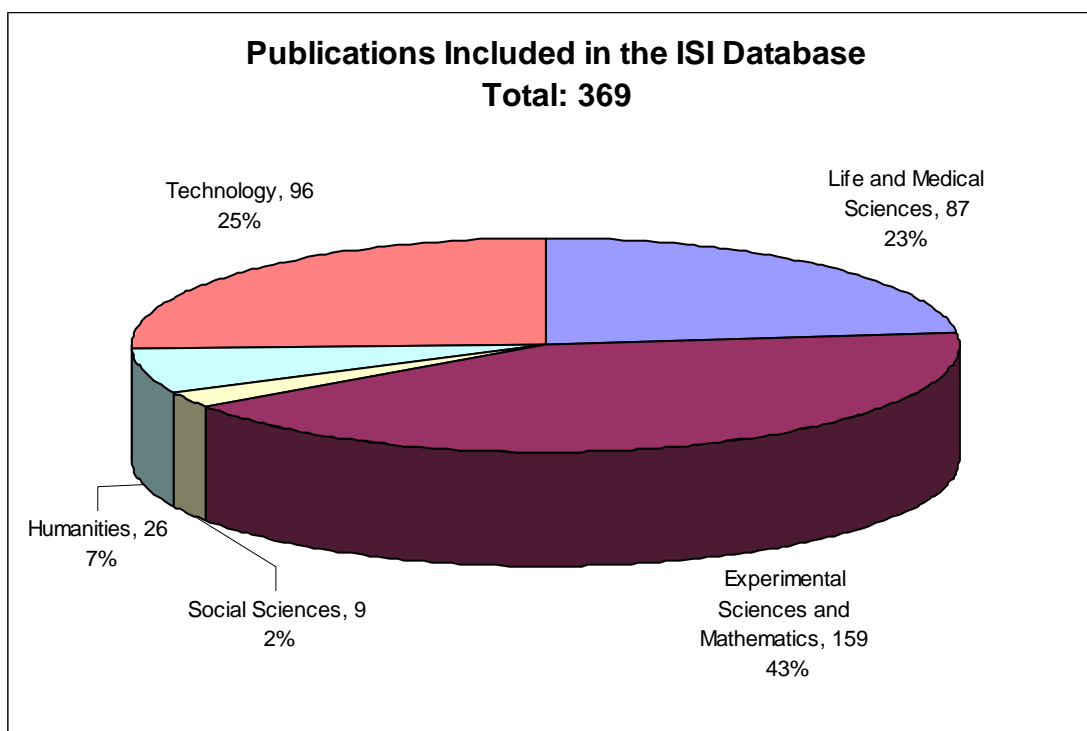
Number of ICREA researchers at research centres (including the CSIC), by area of research.



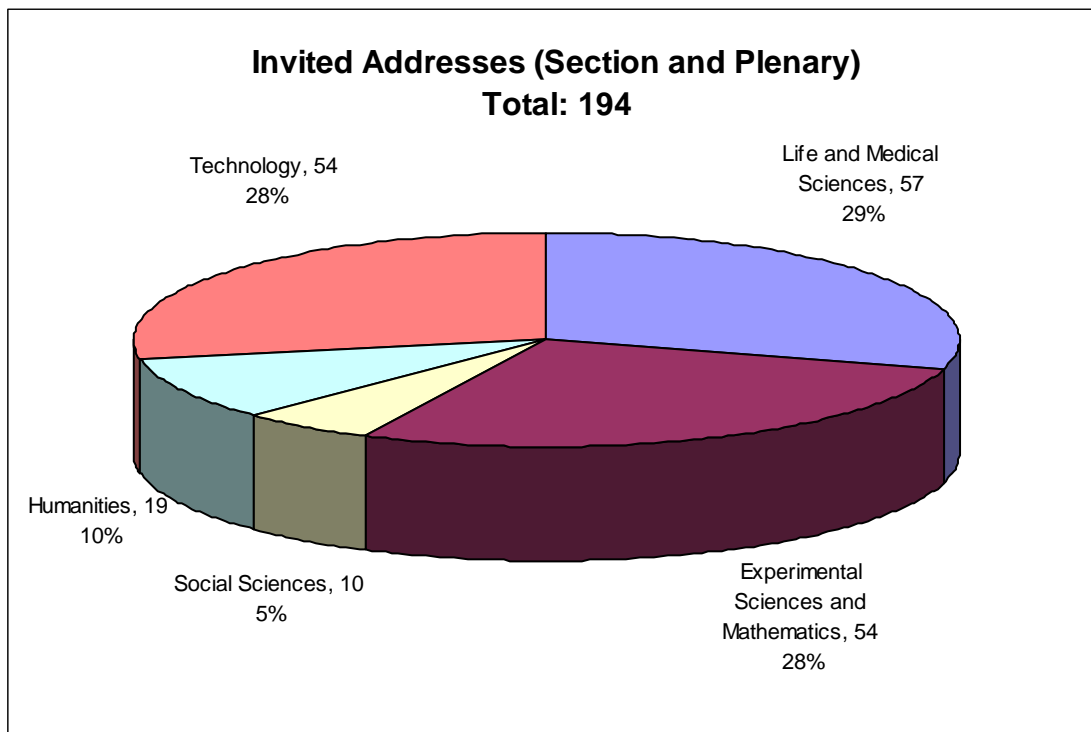
Publications: Number of articles published in 2005, by area of research. Only papers in journals, books and conference proceedings are considered.



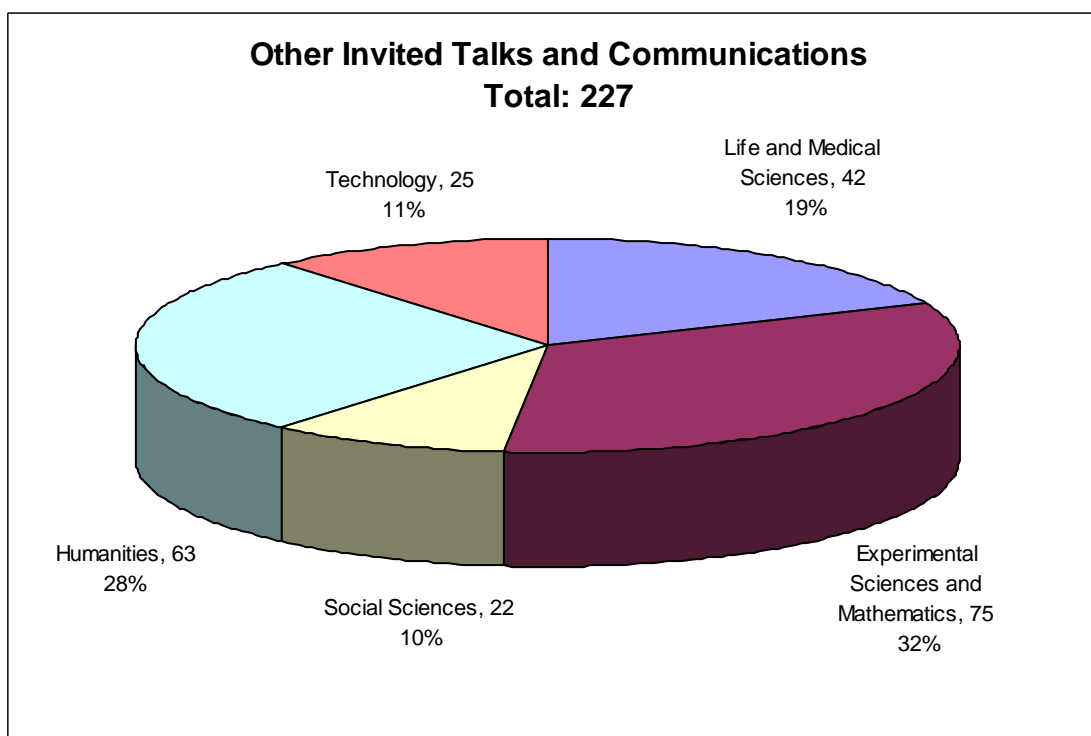
Publications ISI: Number of papers published in 2005 that are included in the ISI database. (<http://www.isinet.com/>).



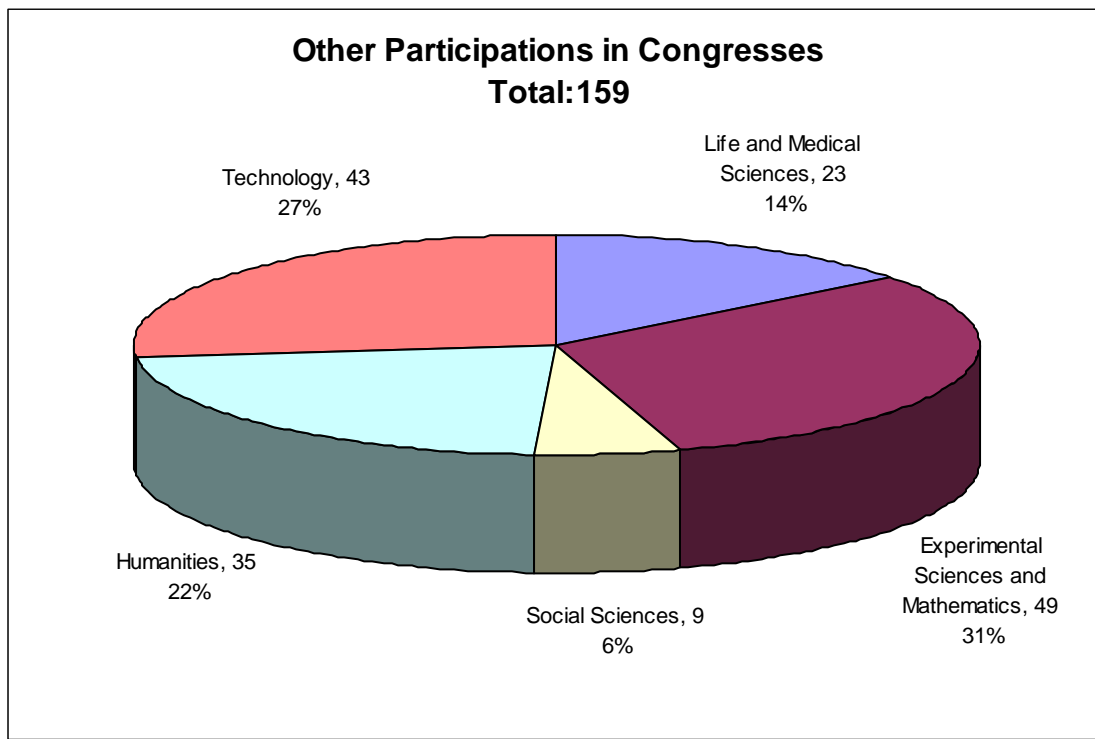
Invited Addresses: Only plenary addresses and invited section talks at international conferences.



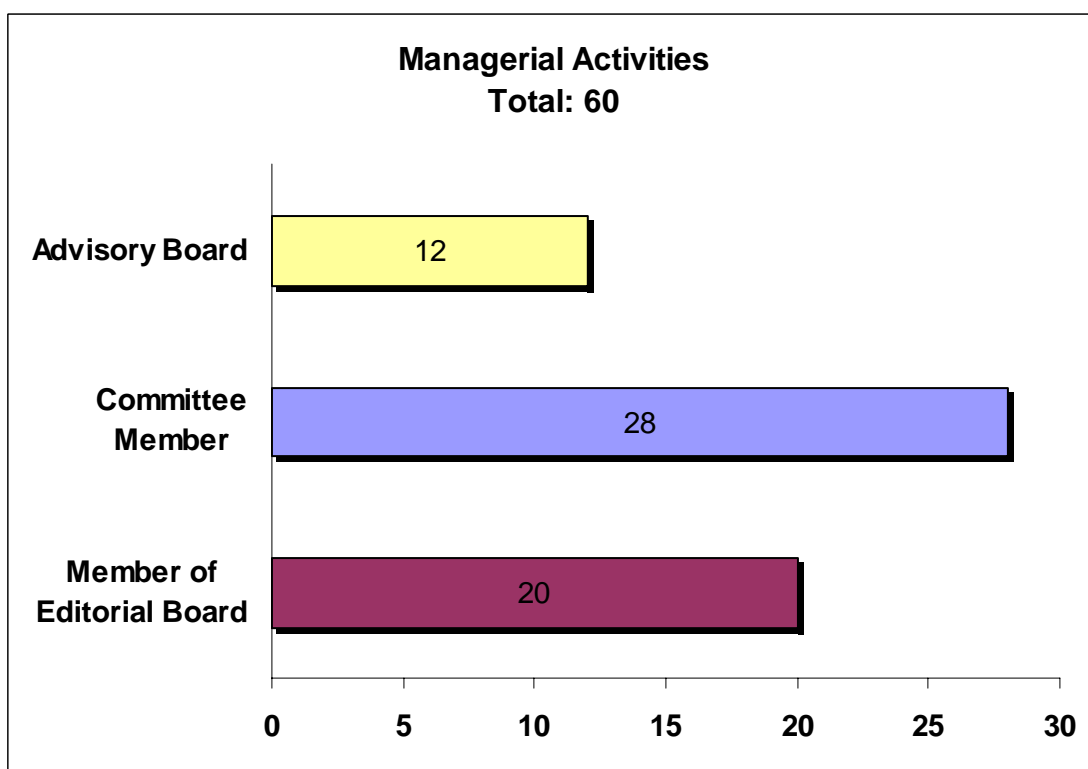
Other Invited Talks and Communications: Communications presented at international meetings and conferences, and invited talks not in congresses or other meetings.



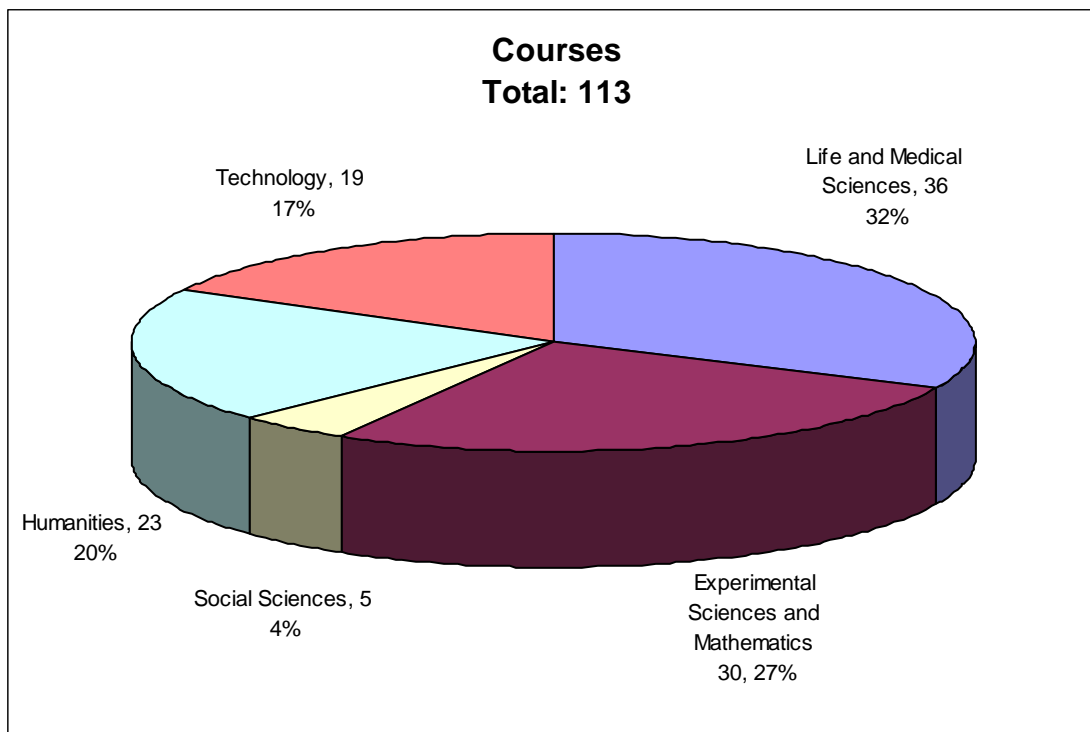
Other Participation in Congresses: Poster presentations, organization, coordination, membership in the programme or scientific committees, or simple participation.



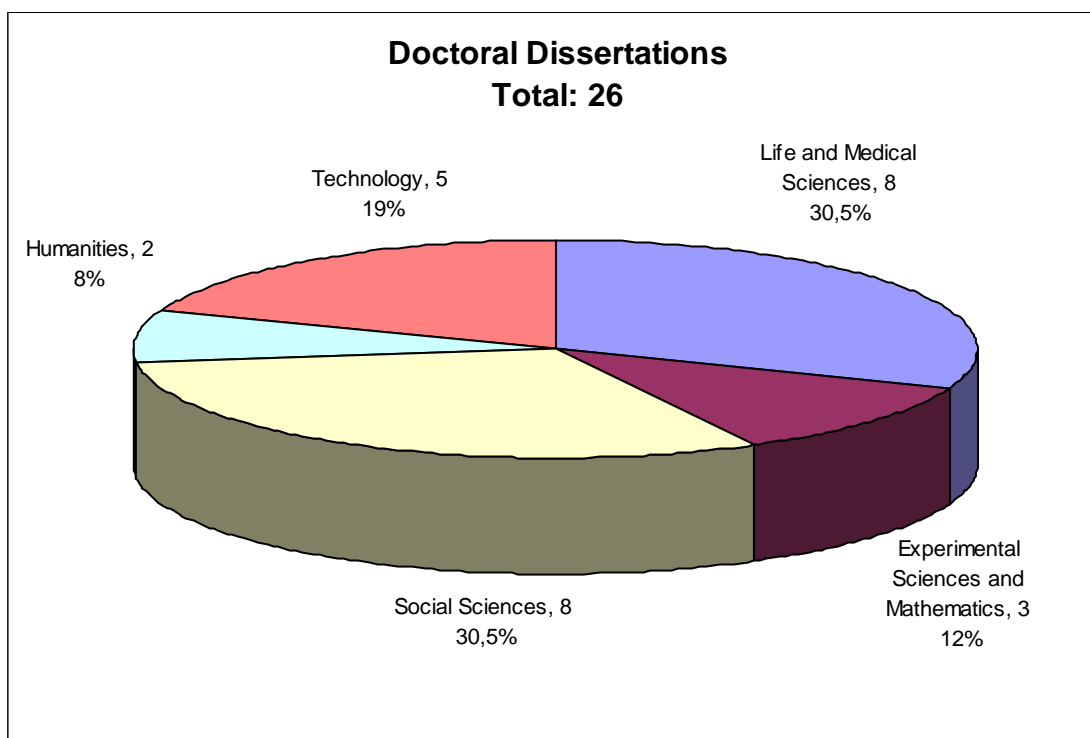
Managerial Activities: Membership in editorial boards, advisory boards and membership in committees.



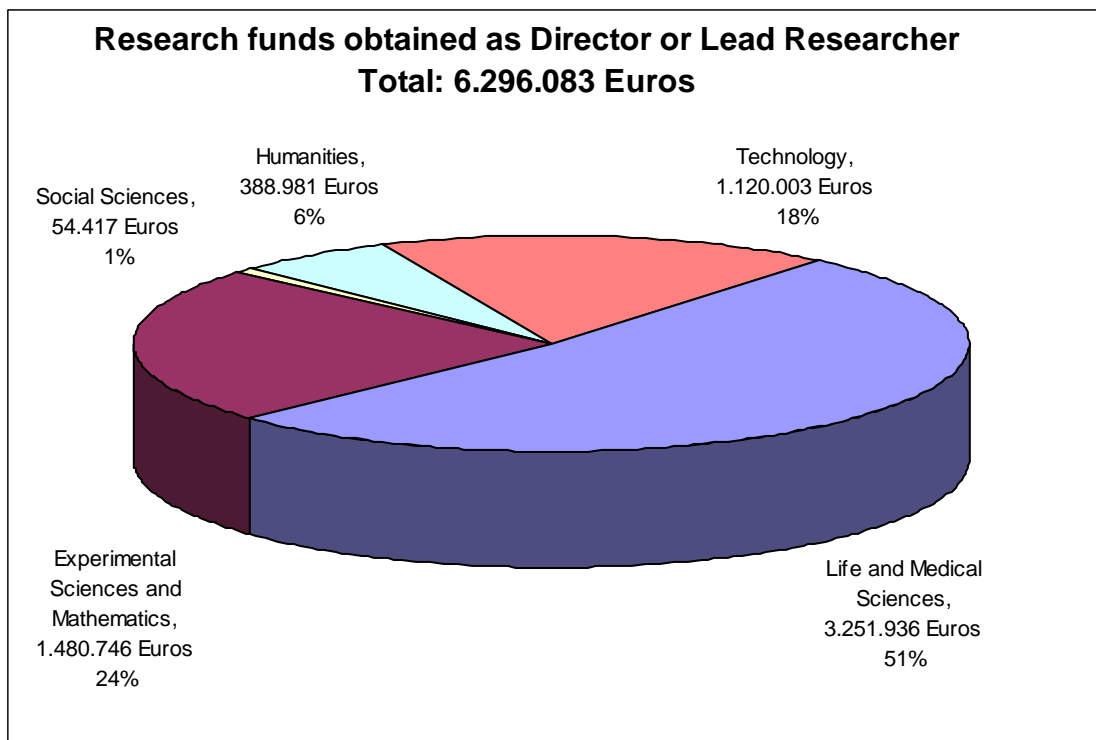
Courses: Graduate and undergraduate courses, as well as advanced or professional courses, and summer schools imparted by ICREA researchers in 2005. Seminars are not included.



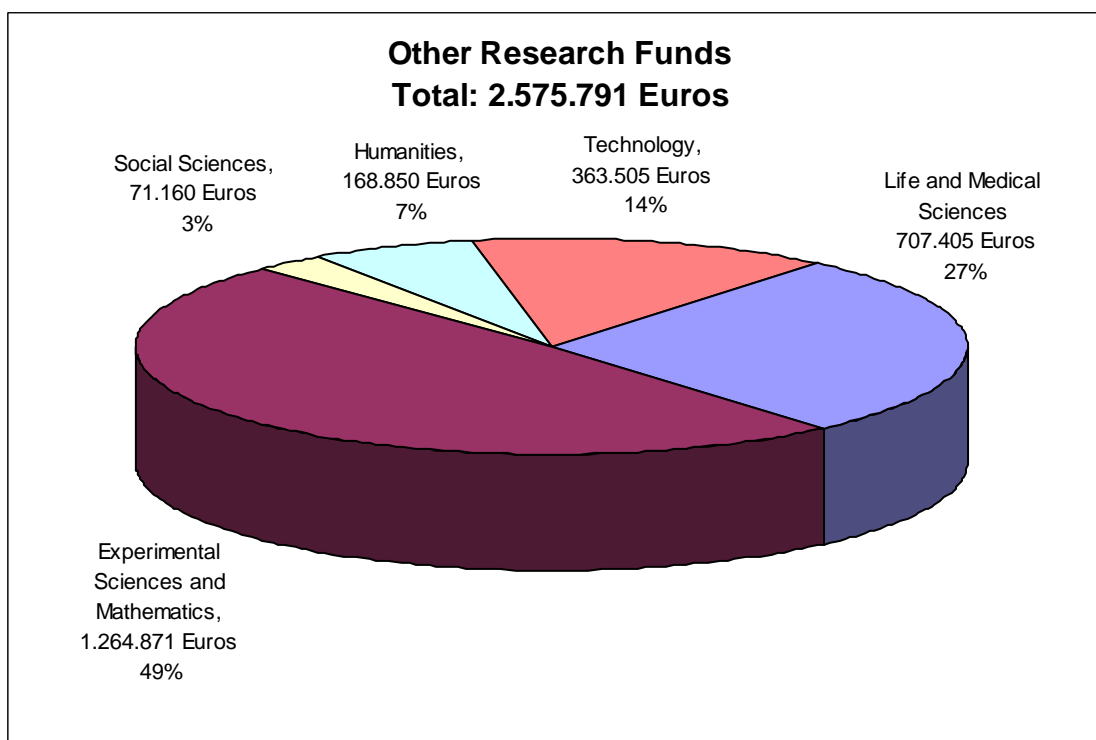
Doctoral Dissertations: Includes only dissertations supervised or co-supervised by ICREA researchers that were presented during 2005.



Research Funds: Funds obtained competitively from different agencies and organisations that provide financial support for research projects. It includes only those projects in which the ICREA researcher is the director or lead researcher.



Other Research Funds: Other funds available to ICREA researchers as members of research groups.



Patents

During 2005, ICREA researchers filed 5 applications for patents.

Research Areas	Patents
<hr/>	
Experimental Sciences and Mathematics / Technology	
<hr/>	
Dmitri Petrov – Institut de Ciències Fotòniques (ICFO) and Vladimir Laukhin – Institut de Ciències de Materials de Barcelona (ICMB – CSIC)	1
Anton Vidal-Ferran – Institut Català d’Investigacions Químiques (ICIQ)	3
<hr/>	
Life and Medical Sciences	
<hr/>	
Alex Bach – Institut de Recerca i Tecnologia Agroalimentàries (IRTA)	1

Prizes and Honours

Albert, Rosa Maria - Universitat de Barcelona (UB)

- ★ Awarded the José Manuel Blecu award for the best published work derived from the PhD dissertation, for the paper: Mode of Occupation of Tabun Cave, Mt Carmel, Israel During the Mousterian Period: A Study of the Sediments and Phytoliths, published in Journal of Archaeological Science.

Bofill i Soliguer, Margarida - IrsiCaixa

- ★ Fellowship of the Royal College of Pathologists, London, UK.

Cánova, Fabio - Universitat Pompeu Fabra (UPF)

- ★ Dating Committee Member of the Centre for Economic Policy Research (CEPR).
- ★ Steering Committee, European Business Cycle Network (EABCN).

Hogarth, Robin - Universitat Pompeu Fabra (UPF)

- ★ Elected President-Elect of the European Association for Decision Making

Odintsov, Serguei - Institut d'Estudis Espacials de Catalunya (IEEC)

- ★ First Annual Scientific Prize of 2005 for Great Achievements in Research, by the Scientific Council of Tomsk State Pedagogical University (TSPU).

O'Sullivan, Ciara - Universitat Rovira i Virgili (URV)

- ★ Winner of Research Prize of National Association of Coeliac Disease, Spain.

Rosell Llompart, Joan - Universitat Rovira i Virgili (URV)

- ★ Membership in The Scientific Research Society, a honorary society, USA.

Seoane Suárez, Joan - Institut de Recerca Hospital Univ. Vall d'Hebron (IRHUVH)

- ★ Sala-Trepat Award 2004.

Vernos, Isabel - Centre de Regulació Genòmica (CRG)

- ★ Elected member of the European Molecular Biology Organization (EMBO).

Vila Bover, Miquel - Institut de Recerca Hospital Univ. Vall d'Hebron (IRHUVH)

- ★ Marie Curie Excellence Grant from the European Commission (1.2 M euros for 4 years).

Voth, Joachim - Universitat Pompeu Fabra (UPF)

- ★ Glucksman Prize, Finance Department, Stern Business School (Honorable Mention).

Average ICREA Researcher in 2005

- ▶ Publications: **4.5**
- ▶ Publications in the ISI Database: **3.3**
- ▶ Invited addresses (section or plenary): **2**
- ▶ Other invited talks/Communications: **2.4**
- ▶ Other Participation in Congresses: **1.7**
(Poster, Participant, Organizer, Coordinator, Member of the Scientific or Programme Committee)
- ▶ Managerial Activities: **0.6**
(Member of Editorial Board, Research Programme Manager, Committee Member, Advisory Board Member)
- ▶ Doctoral Dissertations supervised and presented in 2005: **0.3**
- ▶ Imparted Courses (not including seminars): **1.2**
- ▶ Research Funds obtained as Director or Lead Researcher: **66.275 Euros**
- ▶ Other Research Funds as participant or collaborator: **27.114 Euros**

Remark: Since some of the researchers joined ICREA along 2005, and therefore they worked for less than 12 months as ICREA researchers, the data above, except those about publications, have been computed based on the number of equivalent full-time researchers during 2005, which was 95. The data on publications are based on the total number of 115 researchers and includes all publications that appeared in 2005.

Publications

We give below a list of all publications by ICREA researchers that appeared during 2005 and are included in the ISI database. They are sorted by area of research and listed in alphabetical order with respect to the name of the ICREA researcher.

Experimental Sciences and Mathematics

Articles in a Journal

- V.Ahufinger**, L.Sanchez-Palencia, A.Kantian, **A.Sanpera** and **M.Lewenstein**
 "Disordered ultracold atomic gases in optical lattices: A case study of Fermi-Bose mixtures"
Physical Review A, 72, 063616(1)-063616(25), (2005)
 American Physical Society, United States
- V.Ahufinger** and **A.Sanpera**
 "Lattice solitons in quasicondensates"
Physical Review Letter, 94, 130403(1)-130403(4), (2005)
 American Physical Society, United States
- V.Ahufinger**, R.Shuker and R.Corbalań
 "Frequency up-conversion He-Ne lasing without inversion"
Applied Physics B: Lasers and Optics, 80, 67-72, (2005)
 Springer-Verlag GmbH, Germany
- C. Garau, A. Frontera, D. Quiñonero, **P. Ballester**, A. Costa, P. M. Deyà
 "A Theoretical ab initio Study of the Capacity of Several Binding Units for the Molecular Recognition of Anions"
Eur. J. Org. Chem., 179-183, (2005)
 Wiley-VCH, Germany
- C.Garau, D.Quiñonero, A.Frontera, **P.Ballester**, A.Costa, P.M.Deyà
 "Approximate additivity of anion-pi interactions: An ab initio study on Anion-pi anion-pi(2) and anion-pi(3) complexes"
Journal Phys.Chem.A, 109, 9341-9345, (2005)
 American Chemical Society, United States
- D.Quiñonero, A.Frontera, C.Garau, **P.Ballester**, A.Costa, P.M.Deyà, F.Pichierri
 "Counterintuitive affinity of [2.2]paracyclophane to cations"
Chem.Phys.Lett, 408, 59-64, (2005)
 Journal Organic Chemistry, Netherlands
- D.Quiñonero, A.Frontera, C.Garau, A.Costa, **P.Ballester**, P.M.Deyà
 "Ab initio investigations of lithium insertion in boron and nitrogen-doped single walled carbon nanotubes"
Chem.Phys.Letters, 411, 256-261, (2005)
 Journal Organic Chemistry, Netherlands
- D.Quiñonero, C.Garau, A.Frontera, **P.Ballester**, A.Costa, P.M.Deyà
 "Structure and binding energy of anion-pi and cation-pi complexes: A comparison of MP2,RI-MP2, DFT and DF-DFT methods"
Journal Phys. Chem. A, 109, 4632-4637, (2005)
 American Chemical Society, United States
- F.Cuevas, **P.Ballester**, M.A.Pericàs
 "Structurally Simple, Modular Amino Alcohols for the Recognition of Carboxylic Acids. Application to the Development of a New Chiral Solvating Agent"
Organic Letters, 7, 5485-5487, (2005)
 American Chemical Society, United States
- P.Ballester**, A.Costa, A.M.Castilla, P.M Deyà, A.Frontera, R.M.Gomila, C.A.Hunter
 "DABCO directed self-assembly of bisporphyrins"
Chemical European Journal, 11, 2196-2206, (2005)
 Wiley-VCH, Germany

- P.Ballester**, A.Costa, P.M.Deyà, A.Frontera, R.M.Gomila, A.I.Oliva, J.K.M.Sanders, C.A.Hunter
 "Self-Assembly, Binding, and Dynamic Properties of Heterodimeric Porphyrin Macrocycles"
Journal Organic Chemistry, 70, 6616-6622, (2005)
 American Chemical Society, United States
- R. Dobrawa, M. Lysetska, **P. Ballester**, M. Grüne, F. Würthner
 "Fluorescent Supramolecular Polymers: Metal Directed Self-Assembly of Perylene Bisimide Blocks"
Macromolecules, 38, 1315-1325, (2005)
 American Chemical Society, United States
- Barril X**, Brough P, Drysdale M, Hubbard RE, Massey A, Surgenor A, Wright L.
 "Structure-based discovery of a new class of Hsp90 inhibitors"
Bioorganic & Medicinal Chemistry Letters, 15(23), 5187-5191, (2005)
 Pergamon-Elsevier Science Ltd, United Kingdom
- Barril, X.**, Morley, S.D.
 "Unveiling the full potential of flexible receptor docking using multiple crystallographic"
Journal of Medicinal Chemistry, 48(13), 4432-4443, (2005)
 AMER CHEMICAL SOC, United States
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