

Training Programmes and Courses

The CNIO provides an excellent environment for training the next generation of researchers and is highly dedicated to offering training opportunities at all career levels. The CNIO's research staff is a mix of young, talented researchers starting their careers and highly renowned senior investigators. We aim to ensure that there is a good ratio between experienced scientists and researchers in training at the CNIO to guarantee that junior scientists receive individualised training and benefit from working closely with their mentors. The CNIO also offers state-of-the-art scientific equipment including cutting-edge technologies in the numerous Core Units, as well as highly dedicated administration and technical support. In addition to working in a highly international and dynamic scientific environment, junior scientists at the CNIO also benefit from a broad range of seminars, meetings, conferences and symposia that take place regularly at the Centre.

Training of PhD Students

The training of PhD students in cutting-edge cancer research is a key aim of the CNIO and the Centre offers many opportunities for bright and dynamic university graduates of all nationalities. In 2010, 132 students worked at the Centre, 22 of whom joined the CNIO that year. Almost half of these students were graduates from foreign universities, contributing to the international atmosphere at the CNIO. All of our students enjoy extramural funding through public or private grants: 43% of students were funded through public organisations, 28% by research projects and 29% through private funding and sponsorship.

Thanks to the generous support of "la Caixa" Foundation, the CNIO launched its third Call of the "la Caixa" - CNIO International PhD Programme in 2010. This is a fellowship programme for outstanding young graduate students from all over the world interested in pursuing an ambitious PhD project at the CNIO. Ten very competitively funded four-year fellowships were awarded in this third Call. Similar Calls are expected to be published in the coming years.

The distribution of students across the CNIO's Research Programmes in 2010 was as follows: 42.3% of students worked in the Molecular Oncology Programme, 12.9% in the Molecular Pathology Programme, 1.5% in the Biotechnology Programme, 20.5% in the Human Cancer Genetics Programme, 11.4% in the Structural Biology and Biocomputing Programme, 0.8% in the Experimental Therapeutics Programme, 5.3% in the BBVA Foundation – CNIO Cancer Cell Biology Programme and the remaining 5.3% in the recently created Clinical Research Programme.

The following students at the CNIO obtained their PhD degrees in 2010

Name	Research Group/Unit	Date	University	Thesis Title
Elena López	Hereditary Endocrine Cancer	04/02/10	Autonoma University of Madrid, Spain	Molecular characterization of pheochromocytoma/paraganglioma patients, and expression profiles associated with the different genetic classes
Susanna Leskela	Hereditary Endocrine Cancer	15/02/10	Autonoma University of Madrid, Spain	Pharmacogenetics of taxanes: identification and characterization of molecular mechanisms underlying toxicity and lack of response
Ricardo Ramires	Human Genetics	19/02/10	Autonoma University of Madrid, Spain	Gene expression profiling of hereditary breast tumors
Javier Coloma	Macromolecular Crystallography	25/02/10	Autonoma University of Madrid, Spain	Structural analysis of protein complexes involved in DNA interactions
Ángel Serrano	Chromosome Dynamics	25/02/10	Autonoma University of Madrid, Spain	Role of HP1 proteins in chromosome segregation
Barbara Martínez	Genomic Instability	11/03/10	Autonoma University of Madrid, Spain	The impact of chromatin structure in the DNA damage response
Tomás Aparicio	DNA Replication	29/03/10	Autonoma University of Madrid, Spain	Study of human GINS, a novel protein complex that is essential for DNA replication
Magdalena Zajac	Human Genetics	08/04/10	Autonoma University of Madrid, Spain	Cellular and molecular effects of Hsp90 inhibition by 17-AAG in sporadic and hereditary breast cancer
Luisa Morais	Epithelial Carcinogenesis	09/04/10	Pompeu Fabra University, Barcelona, Spain	ICAT: a novel Ptf1a/p48 partner that modulates acinar gene expression
Magdalena Wozniak	Lymphoma	26/04/10	Autonoma University of Madrid, Spain	Pathogenesis and targeted therapy of T-cell lymphoma
Maria F. Montaña	Genomic Instability	25/05/10	Autonoma University of Madrid, Spain	Study of the ATR kinase in ageing and cancer (Development of a murine model)
Jesús M. López-Gay	Cellular Competition	15/05/10	Autonoma University of Madrid, Spain	Searching for markers and mediators of cell competition
Simone Culurgione	Macromolecular Crystallography	21/06/10	Autonoma University of Madrid, Spain	Structural and functional characterization of the dimerization domain of the tumor suppressor
Daniel Herranz	Tumour Suppression	25/06/10	Autonoma University of Madrid, Spain	Role of Sirt1 in metabolism, cancer and aging
Aranzazu Villasante	Tumour Suppression	25/06/10	Autonoma University of Madrid, Spain	Role of Ezh2 in induced pluripotent stem cells (iPS) and in the regulation of the InkA/Arf locus
Paulina Wachowicz	Cell Division and Cancer	28/06/10	Autonoma University of Madrid, Spain	Modeling Plk1 function in the mouse
Beatriz Herreros	Lymphoma	16/07/10	Autonoma University of Madrid, Spain	Chronic lymphocytic leukemia: New insights into the microenvironment and sensitivity to rationally selected compounds
Elsa Vera	Telomeres and Telomerase	09/09/10	Autonoma University of Madrid, Spain	High-throughput telomere length quantification by FISH and its different applications to human population, cancer and aging studies

The following students at the CNIO obtained their PhD degrees in 2010 (continued)

Name	Research Group/Unit	Date	University	Thesis Title
Daniel Martín	Lymphoma	15/10/10	Autonoma University of Madrid, Spain	The role of epigenetic regulation in B-cell lymphomas
Paula Gutiérrez	Genomic Instability	28/10/10	Autonoma University of Madrid, Spain	Phosphorylation and SUMOylation in the protection against ageing and cancer
Marta Portela	Cellular Competition	05/11/10	Autonoma University of Madrid, Spain	dSparc protects loser cells from the elimination by cell competition in <i>Drosophila melanogaster</i>
Victor Querada	Cell Division	22/11/10	Autonoma University of Madrid, Spain	INK4 and Cip/Kip inhibitors in cell cycle regulation and tumor development
Evgeniya Petrova	Cellular Competition	17/12/10	Autonoma University of Madrid, Spain	Role of mouse Flower during carcinogenesis and normal mouse development

Graduate students carrying out their PhD thesis at the CNIO during 2010

Molecular Oncology Programme

Name	Funding Agency	BSc/MSc University	PhD University
Cristina Aguirre	FPI (Spanish Ministry of Science and Innovation)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Silvia Álvarez	FPI (Spanish Ministry of Science and Innovation)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Tomás Aparicio	FPU (Spanish Ministry of Education)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Nahikari Bartolomé	ERC grant	University of the Basque Country, Leioa, Spain	Complutense University of Madrid, Spain
Rafael Blasco	FPI (FIS, Spanish Ministry of Science and Innovation)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Sabela Búa	FPU (Spanish Ministry of Education)	University of Vigo, Spain	Autonoma University of Madrid, Spain
María Carretero	FP6 grant (EU) / MICINN grant	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Manuel Eguren	FPU (Spanish Ministry of Education)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Miguel Ganuza	FPU (Spanish Ministry of Education) / MICINN grant	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
María García	FPI (Spanish Ministry of Science and Innovation)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Ianire Garrobo	FPI (FIS, Spanish Ministry of Science and Innovation)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Alejandra González	FPI (Spanish Ministry of Science and Innovation)	University of Salamanca, Spain	Autonoma University of Madrid, Spain
María Guillamot	FPU (Spanish Ministry of Education) / FP7 grant (EU)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Jalaj Gupta	MICINN grant	Bundelkhand University, Jhansi, India	Autonoma University of Madrid, Spain
Paula Gutiérrez	FPI (Spanish Ministry of Science and Innovation) / ERC grant	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Isabel Hernández	FPI (FIS, Spanish Ministry of Science and Innovation)	University of Salamanca, Spain	Autonoma University of Madrid, Spain
Daniel Herranz	FPI (FIS, Spanish Ministry of Science and Innovation) / ERC grant	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Arkaitz Ibarra	Gobierno Vasco / MICINN grant	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Iva Kriziac	FP7 grant (EU)	University of Zagreb, Croatia	Autonoma University of Madrid, Spain
Elena López	FP6 grant (EU)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Fidel Lolo	Comunidad de Madrid (Community of Madrid)	University of Alcalá, Alcalá de Henares, Spain	University of Alcalá, Alcalá de Henares, Spain
Jesús M. López-Gay	Comunidad de Madrid (Community of Madrid) / FP7 grant (EU)	University of Granada, Spain	Autonoma University of Madrid, Spain
Sara Mainardi	Fundación "la Caixa"	University of Rome "La Sapienza", Italy	Autonoma University of Madrid, Spain
Eusebio Manchado	FPI (FIS, Spanish Ministry of Science and Innovation)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Bárbara Martínez	Fundación Mario Losantos del Campo / Miguel Catalán Award	University of Valencia, Spain	Autonoma University of Madrid, Spain
Ángela Monasor	FPI (Spanish Ministry of Science and Innovation)	Complutense University of Madrid, Spain	University of Alcalá, Alcalá de Henares, Spain
M. Fernanda Montaña	MICINN grant	University of Los Andes, Bogota, Colombia	Autonoma University of Madrid, Spain
Lucía Morgado	FPU (Spanish Ministry of Education)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Carolina Navas	FPI (Spanish Ministry of Science and Innovation)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
María Nieto	Fundación "la Caixa"	Autonoma University of Barcelona, Spain	Autonoma University of Madrid, Spain
Patricia Nieto	MICINN grant / FPU (Spanish Ministry of Education)	Francisco de Vitoria University, Pozuelo de Alarcón, Spain	Autonoma University of Madrid, Spain
Ana Ortega	Comunidad de Madrid (Community of Madrid)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Adelaida Palla	FPI (Spanish Ministry of Science and Innovation)	Francisco de Vitoria University, Pozuelo de Alarcón, Spain	Autonoma University of Madrid, Spain
Carmen L. Pereira	FPI (FIS, Spanish Ministry of Science and Innovation)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Pablo Pérez	FPI (Spanish Ministry of Science and Innovation) / ERC grant	University of Oviedo, Spain	Autonoma University of Madrid, Spain
Evgeniya Petrova	ERC grant	University of Bremen, Germany	Autonoma University of Madrid, Spain
Marta Portela	Fundación de Investigación Médica Mutua Madrileña grant / FP7 grant (EU)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Víctor Querada	FPU (Spanish Ministry of Education)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain

Graduate students carrying out their PhD thesis at the CNIO during 2010 (continued)

Name	Funding Agency	BSc/MSc University	PhD University
Silvia Remeseiro	<i>Fundación "la Caixa"</i>	University of La Coruña, Spain	Autonoma University of Madrid, Spain
Teresa Rivera	FPI (Spanish Ministry of Science and Innovation) / MICINN grant	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Juan L. Rodríguez	FPU (Spanish Ministry of Education)	University of Cordoba, Spain	Autonoma University of Madrid, Spain
M. Fernanda Rodríguez	FPI (Spanish Ministry of Science and Innovation)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
E. Josue Ruiz	CNIO	National University of Mexico, Mexico	Autonoma University of Madrid, Spain
Patricia Sánchez	FPI (Spanish Ministry of Science and Innovation)	University of the Basque Country, Leioa, Spain	Autonoma University of Madrid, Spain
Ralph Schneider	Körber European Science Award	University of Basel, Switzerland	University of Basel, Switzerland
Ángel Serrano	MICINN grant	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Aneta Swat	FPU (Spanish Ministry of Education)	University of Lodz, Poland	Autonoma University of Madrid, Spain
Catherine Symonds	<i>Fundación "la Caixa"</i>	University of Massachusetts, Amherst, USA	Autonoma University of Madrid, Spain
Enrico Tenaglia	<i>Fundación "la Caixa"</i>	University of Turin, Italy	Autonoma University of Madrid, Spain
Luis I. Toledo	<i>Miguel Catalán Award</i>	University of Barcelona, Spain	Autonoma University of Madrid, Spain
Antonia Tomás	Körber European Science Award	University of Murcia, Spain	Autonoma University of Madrid, Spain
Marianna Trakala	<i>Fundación "la Caixa"</i>	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Elsa Vera	FPI (Spanish Ministry of Science and Innovation)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Isora Vidal	<i>Comunidad de Madrid</i> (Community of Madrid)	University of Santiago de Compostela, Spain	Complutense University of Madrid, Spain
Aránzazu Villasante	FPI (Spanish Ministry of Science and Innovation)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Paulina Wachowich	MICINN grant	University of Lodz, Poland	Autonoma University of Madrid, Spain

Structural Biology and Biocomputing Programme

Name	Funding Agency	BSc/MSc University	PhD University
Deborah Balzano	<i>Fundación "la Caixa"</i>	University of Milan, Italy	Autonoma University of Madrid, Spain
César Boullosa	FPI (Spanish Ministry of Science and Innovation)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Javier Coloma	FPI (Spanish Ministry of Science and Innovation)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Marija Dramicanin	<i>Fundación "la Caixa"</i>	University of Belgrade, Serbia	Autonoma University of Madrid, Spain
Iakes Ezcurdia	MICINN grant	University of the Basque Country, San Sebastian, Spain	Autonoma University of Madrid, Spain
Ana M. Garrote	<i>Fundación "la Caixa"</i>	National University of Quilmes, Argentina	Autonoma University of Madrid, Spain
José M. González-Izarzugaza	FP6 grant (EU) / MICINN grant	University of the Basque Country, San Sebastian, Spain	Autonoma University of Madrid, Spain
Cristina Ibáñez	<i>Fundación "la Caixa"</i>	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Florian Leitner	<i>Instituto Nacional de Bioninformática</i> grant / MICINN grant	University of Vienna, Austria	Autonoma University of Madrid, Spain
Gonzalo López	FP7 grant (EU)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Paolo Maietta	FIS grant (Spanish Ministry of Science and Innovation)	Complutense University of Madrid, Spain	Complutense University of Madrid, Spain
Jaime Martínez	FPI (Spanish Ministry of Science and Innovation)	University of Salamanca, Spain	Autonoma University of Madrid, Spain
Ilaria Mereu	<i>Fundación "la Caixa"</i>	University of Cagliari, Italy	Autonoma University of Madrid, Spain
Antonio Rausell	FPI (Spanish Ministry of Science and Innovation) / MICINN grant	University of Valencia, Spain	Autonoma University of Madrid, Spain
June Sánchez	<i>Gobierno Vasco</i>	University of Navarre, Pamplona, Spain	Autonoma University of Madrid, Spain

BBVA Foundation – CNIO Cancer Cell Biology Programme

Name	Funding Agency	BSc/MSc University	PhD University
Eva Briso	<i>Fundación "la Caixa"</i>	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Ljiljana Dukanovic	<i>Fundación "la Caixa"</i>	Bard College, Annandale-on-Hudson, USA	Autonoma University of Madrid, Spain
Sebastian Hasenfuss	Boehringer Ingelheim Fonds	University of Freiburg, Germany	Albert-Ludwigs-University, Freiburg, Germany
Ilya Kovalenko	<i>Fundación "la Caixa"</i>	Lomonosov Moscow State University, Russia	Autonoma University of Madrid, Spain
Marta N. Shahbazi	<i>Fundación "la Caixa"</i>	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Krishna S. Tummala	<i>Fundación "la Caixa"</i>	Indian Institute of Technology, Roorkee, India	Autonoma University of Madrid, Spain
Stefanie Wurm	ERC advanced grant	University of Applied Sciences, Krems, Austria	Autonoma University of Madrid, Spain

Molecular Pathology Programme

Name	Funding Agency	BSc/MSc University	PhD University
Miriam Agúndez	FPI (Spanish Ministry of Science and Innovation)	University of Salamanca, Spain	Autonoma University of Madrid, Spain
Direna Alonso	FPU (Spanish Ministry of Education)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Cristina Balbás	<i>Fundación "la Caixa"</i>	Princeton University, USA	Autonoma University of Madrid, Spain
Jaroslav Cendrowski	<i>Fundación "la Caixa"</i>	University of Warsaw, Poland	Autonoma University of Madrid, Spain
Metehan Çifdalöz	<i>Fundación "la Caixa"</i>	Bogaziçi University, Istanbul, Turkey	Autonoma University of Madrid, Spain
Aguirre A. de Cubas	<i>Fundación "la Caixa"</i>	University of Zaragoza, Spain	Autonoma University of Madrid, Spain
Lorena Di Lisio	FPI (FIS, Spanish Ministry of Science and Innovation)	University of Turin, Italy	Autonoma University of Madrid, Spain
Elena Doménech	FPI (FIS, Spanish Ministry of Science and Innovation)	Complutense University of Madrid, Spain	Complutense University of Madrid, Spain
Beatriz Herreros	FIS grant (Spanish Ministry of Science and Innovation)	University of Salamanca, Spain	Autonoma University of Madrid, Spain
Daniel Martín	MICINN grant	University of Alcalá, Alcalá de Henares, Spain	Autonoma University of Madrid, Spain
Esperanza Martín	<i>Gobierno Vasco</i>	University of the Basque Country, Leioa, Spain	University of the Basque Country, Leioa, Spain
Lina Odqvist	<i>Comunidad de Madrid</i> (Community of Madrid)	University of Göteborg, Sweden	Autonoma University of Madrid, Spain
Eva Pérez	FPI (Spanish Ministry of Science and Innovation)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Laia Richart	MICINN grant	Pompeu Fabra University, Barcelona, Spain	Autonoma University of Madrid, Spain
Beatriz Sánchez	FPI (FIS, Spanish Ministry of Science and Innovation)	University of Navarre, Pamplona, Spain	Autonoma University of Madrid, Spain
Andrea Vaqueirinho	Portuguese Foundation for Science and Technology	University of Lisbon, Portugal	University of Porto, Portugal
Magdalena Wozniac	FIS grant (Spanish Ministry of Science and Innovation)	University of Lodz, Poland	Autonoma University of Madrid, Spain

Human Cancer Genetics Programme

Name	Funding Agency	BSc/MSc University	PhD University
Francesco Acquadro	Centre for Biomedical Network Research on Rare Diseases (CIBERER) grant	University of Turin, Italy	Autonoma University of Madrid, Spain
Daniela Caronia	FIS grant (Spanish Ministry of Science and Innovation) / <i>Inocente</i> Foundation grant	University of Milan, Italy	Autonoma University of Madrid, Spain
Iñaki Comino	<i>Bancaja-CIBERER</i>	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Maciej Czachowski	<i>Fundación "la Caixa"</i>	McGill University, Montreal, Canada	Autonoma University of Madrid, Spain
Bibiana I. Da Silva	Celgene agreement	University of Aveiro, Portugal	Autonoma University of Madrid, Spain
Ana del Río	FIS grant (Spanish Ministry of Science and Innovation) / FPU (Spanish Ministry of Education)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Lucía Inglada	Centre for Biomedical Network Research on Rare Diseases (CIBERER) grant	Complutense University of Madrid, Spain	TBD
Marta M. Kamieniak	<i>Fundación "la Caixa"</i>	University of Warsaw, Poland	Autonoma University of Madrid, Spain
Iñigo Landa	FPI (FIS, Spanish Ministry of Science and Innovation)	University of Navarre, Pamplona, Spain	Autonoma University of Madrid, Spain
Luis J. Leandro	FPI (FIS, Spanish Ministry of Science and Innovation)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Susanna Leskela	FPU (Spanish Ministry of Education)	University of Helsinki, Finland	Autonoma University of Madrid, Spain
Alba Maiques	FPU (Spanish Ministry of Education)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Agnieszka Malizewska	<i>Fundación "la Caixa"</i>	University of Wrocław, Poland	Autonoma University of Madrid, Spain
Gaëlle Marenne	FPI (FIS, Spanish Ministry of Science and Innovation)	Pierre and Marie Curie University, Paris, France	Autonoma University of Madrid, Spain
Juliane Menezes	<i>Fundación "la Caixa"</i>	University of Rio de Janeiro, Brazil	Autonoma University of Madrid, Spain
Antonio C. Picornell	FIS grant (Spanish Ministry of Science and Innovation) / FP7 grant (EU)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Ricardo Ramires	Centre for Biomedical Network Research on Rare Diseases (CIBERER) grant	University of Pelotas, Brazil	Autonoma University of Madrid, Spain
Bárbara Rivera	FPU (Spanish Ministry of Education)	University of Salamanca, Spain	Autonoma University of Madrid, Spain
Juan M. Rosa	FPU (Spanish Ministry of Education)	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Sara Ruiz	<i>Bancaja-CIBERER</i>	Autonoma University of Madrid, Spain	Autonoma University of Madrid, Spain
Eva Sánchez	FIS grant (Spanish Ministry of Science and Innovation)	University of Salamanca, Spain	Autonoma University of Madrid, Spain
Lara Paula Saucedo	FIS grant (Spanish Ministry of Science and Innovation)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Jaroslav Sochacki	<i>Fundación "la Caixa"</i>	University of Kielce, Poland	Autonoma University of Madrid, Spain
Salman M. Tajuddin	American Institute for Cancer Research (AICR) grant	Hebrew University of Jerusalem, Israel	Autonoma University of Madrid, Spain
Miljana Tanic	<i>Fundación "la Caixa"</i>	University of Belgrade, Serbia	Autonoma University of Madrid, Spain
Tereza Vaclová	<i>Fundación "la Caixa"</i>	Masaryk University, Brno, Czech Republic	Autonoma University of Madrid, Spain
Magdalena Zajac	FPU (Spanish Ministry of Education)	Jagiellonian University, Cracow, Poland	Autonoma University of Madrid, Spain

Experimental Therapeutics Programme

Name	Funding Agency	BSc/MSc University	PhD University
Maja Narlik	FPU (Spanish Ministry of Education)	University of Rostock, Germany	Autonoma University of Madrid, Spain

Biotechnology Programme

Name	Funding Agency	BSc/MSc University	PhD University
Rodrigo Diéguez	Comunidad de Madrid (Community of Madrid)	Agricultural University of Havana, Cuba	Autonoma University of Madrid, Spain
Inés Martínez	MICINN grant	San Pablo-CEU University, Madrid, Spain	Autonoma University of Madrid, Spain

Clinical Research Programme

Name	Funding Agency	BSc/MSc University	PhD University
Sonu Bhaskar	ERC advanced grant	University of Zaragoza, Spain	University of Zaragoza, Spain
Michele Cioffi	Fundación "la Caixa"	University of Naples Federico II, Italy	Autonoma University of Madrid, Spain
Olivia M. Garandeanu	ERC grant	Institut National des Sciences Appliquées, Lyon, France	Autonoma University of Madrid, Spain
Kristina Jucikaite	ERC grant	University of London, UK	Autonoma University of Madrid, Spain
Raquel Martínez	MICINN grant	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Irene Miranda	FP7 grant (EU)	Complutense University of Madrid, Spain	Autonoma University of Madrid, Spain
Natalia Sherina	Fundación "la Caixa"	St. Petersburg State Polytechnical University, Russia	Autonoma University of Madrid, Spain

Post-doctoral Training

One of the CNIO's prime objectives is to attract young researchers who have recently obtained their PhD or MD degrees and to offer them very attractive research projects at the cutting edge of cancer research. In 2010, 95 postdoctoral fellows worked at the CNIO. Notably 56% of these fellows were from outside of Spain, many coming from very prestigious international institutions.

The CNIO launched its new CNIO-Caja Navarra International Postdoctoral Programme in 2008. During 2010 this two-year programme supported 8 postdoctoral fellows at the CNIO who were selected after an international Call and competitive selection process. The CNIO also launched the third Call of this Postdoctoral Programme in 2010. As part of this Call, four very competitively funded postdoctoral fellowships are available over two years to work in any of the research groups at the CNIO. The Call closed on December 31st, 2010.

Molecular Oncology Programme

Name	Funding Agency	PhD/MD Granting Institution
María Abad	MICINN grant	Autonoma University of Madrid, Spain
Chiara Ambrogio	Fundación Caja Navarra grant	University of Turin, Italy
Fabian Beier	German Academic Exchange Service (DAAD)	Eberhard-Karls-University Tübingen, Germany
Rafael Bernad	Juan de la Cierva (Spanish Ministry of Science and Innovation)	University of Leiden, The Netherlands
Bruno M. Bernardes	FP7 grant (EU)	Louis Pasteur University, Strasbourg, France
M. José Bueno	Association for International Cancer Research (AICR) grant	Autonoma University of Madrid, Spain
Sergio Casas	Comunidad de Madrid grant (Community of Madrid)	Complutense University of Madrid, Spain
Massimo Chiesa	CNIO	University of Milan-Bicocca, Italy
Maria L. de Bonis	ERC grant	Second University of Naples, Italy
Sarah Francoz	FIS (Spanish Ministry of Science and Innovation)	VIB - Ghent University, Belgium
Pei Pei Gan	Fundación Caja Navarra grant	University of New South Wales, Australia
Raquel García	MICINN grant	University of Nice, France
Emmanuel Guillou	MICINN grant	Paul Sabatier University, Toulouse, France
Ariana Jacome	MICINN grant	Complutense University of Madrid, Spain
Emilio Lecona	Marie Curie grant	Complutense University of Madrid, Spain
Matthieu B. Lemaire	CNIO	Paul Sabatier University, Toulouse, France
Han Li	Juan de la Cierva (Spanish Ministry of Science and Innovation) / Fundación Científica de la AECC (Spanish Association Against Cancer)	University of Texas, San Antonio, USA
Andrés J. López	Gobierno de Murcia / Juan de la Cierva (Spanish Ministry of Science and Innovation)	University of Murcia, Spain
Cian J. Lynch	FP7 grant (EU)	University of York, UK
Francisco A. Martín	ERC grant	Autonoma University of Madrid, Spain
Nuria Matesanz	CNIO	Autonoma University of Madrid, Spain
Carolyn McNees	ERC grant	University of Melbourne, Australia
Carlos I. Michel	Fundación Caja Navarra grant	Washington University in St. Louis, USA
Sandrina Nóbrega	Fundación Caja Navarra grant	University of Coimbra, Portugal

Post-doctoral Training (continued)

Name	Funding Agency	PhD/MD Granting Institution
José A. Palacios	<i>Juan de la Cierva</i> (Spanish Ministry of Science and Innovation)	University of Trieste, Italy / Open University, UK
Gema Pérez	CNIO	Autonoma University of Madrid, Spain
Daniela Piazzolla	FP7 grant (EU)	University of Vienna, Austria
Christa Rhiner	CNIO	University of Zurich, Switzerland
Sara Rodriguez	CNIO	Autonoma University of Madrid, Spain
Ruth Sánchez	<i>Juan de la Cierva</i> (Spanish Ministry of Science and Innovation)	Autonoma University of Madrid, Spain
Martina Stagno	ERC grant	University of Leicester, UK
Gerdine Stout	<i>Juan de la Cierva</i> (Spanish Ministry of Science and Innovation)	Leiden University, The Netherlands
Agueda Tejera	CNIO	University of Buenos Aires, Argentina
Thomas Wossning	EMBO / Marie Curie grant	University of Freiburg, Germany

Structural Biology and Biocomputing Programme

Name	Funding Agency	PhD/MD Granting Institution
Anais Baudot	<i>Juan de la Cierva</i> (Spanish Ministry of Science and Innovation)	University of Marseille, France
Neva Besker	Mobility grant (Spanish Ministry of Education)	Gabriele d'Annunzio University, Italy
Jaroslav Juraszek	CNIO	University of Amsterdam, The Netherlands
Nada Lallous	CNIO	University of Strasbourg, France
Johanne Le Coq	CNIO	University of California, USA
M. Jose Marcaida	<i>Juan de la Cierva</i> (Spanish Ministry of Science and Innovation)	University of Cambridge, UK
Marco Mazzorana	<i>Comunidad de Madrid</i> grant (Community of Madrid)	University of Padua, Italy
Milana Morgenstern	<i>Fundación Caja Navarra</i> grant	Bar-Ilan University, Ramat-Gan, Israel
Daniel Rico	CNIO	Complutense University of Madrid, Spain
Sunita Subramanian	FP6 grant (EU)	National University of Singapore, Singapore
Ludovico Sutto	<i>Juan de la Cierva</i> (Spanish Ministry of Science and Innovation)	University of Milan, Italy
Rafael A. Molina	Collectis agreement	Complutense University of Madrid, Spain
Miguel Vázquez	FP7 grant (EU)	Complutense University of Madrid, Spain
Jorge A. Zamora	CNIO	Complutense University of Madrid, Spain

BBVA Foundation – CNIO Cancer Cell Biology Programme

Name	Funding Agency	PhD/MD Granting Institution
Guillaume Beranger	<i>Juan de la Cierva</i> (Spanish Ministry of Science and Innovation)	University of Nice Sophia-Antipolis, France
Nils S. Burén	CNIO	Umea University, Sweden
Donatello Castellana	CNIO	Louis Pasteur University, Strasbourg, France
Carolina Epifano	<i>Juan de la Cierva</i> (Spanish Ministry of Science and Innovation)	Autonoma University of Madrid, Spain
Mohamad-Ali Fawal	<i>Fundación Caja Navarra</i> grant	Paul Sabatier University, Toulouse, France
Rainer W. Hamacher	German Research Foundation (DFG)	Technical University of Munich, Germany
Jochen H. Schulze	ERC advanced grant	University of Hamburg, Germany
Martin Thomsen	ERC advanced grant	University of London, UK
Özge Uluçkan	EMBO	Washington University in St. Louis, USA
Mahmut Yilmaz	CNIO	University of Basel, Switzerland

Molecular Pathology Programme

Name	Funding Agency	PhD/MD Granting Institution
Agnieszka Chęcinska	<i>Fundación Científica de la AECC</i> (Spanish Association Against Cancer)	University of Amsterdam, The Netherlands
Julie Earl	<i>Fundación Científica de la AECC</i> (Spanish Association Against Cancer)	University of Liverpool, UK
María García	<i>Juan de la Cierva</i> (Spanish Ministry of Science and Innovation)	University of Seville, Spain
Laura Grau	CNIO	Autonoma University of Barcelona, Spain
Marta Herreros	CNIO	University of Leon, Spain
Laila Illán	CNIO	University of Paris XI, France
Miriam Marqués	FIS (Spanish Ministry of Science and Innovation)	Autonoma University of Madrid, Spain
Paola Martinelli	<i>Juan de la Cierva</i> (Spanish Ministry of Science and Innovation)	European Institute of Oncology, Milan, Italy
Marinela Méndez	CNIO	Autonoma University of Madrid, Spain
Esteban Orenes	FIS (Spanish Ministry of Science and Innovation)	University of Murcia, Spain
Elena Ortiz	MICINN grant	University of Valencia, Spain
Lisa Osterloh	CNIO	University of Würzburg, Germany
Erica Riveiro	<i>Fundación Caja Navarra</i> grant	University of Rio de Janeiro, Brazil
David Sáenz	National Institutes of Health (NIH) grant	University of Alcalá, Alcalá de Henares, Spain
Pilar Sancho	<i>Fundación Caja Navarra</i> grant	University of Seville, Spain
Damiá Tormo	<i>Juan de la Cierva</i> (Spanish Ministry of Science and Innovation)	University of Bonn, Germany

Human Cancer Genetics Programme

Name	Funding Agency	PhD/MD Granting Institution
Francisco J. Gracia	<i>Fundación Científica de la AECC</i> (Spanish Association Against Cancer)	University of Nottingham, UK
M. Evangelina López de Maturana	CNIO	University of Zaragoza, Spain
Evelina Mocci	FP6 grant (EU)	University of Cagliari, Italy
Iván Muñoz	<i>Fundación Caja Navarra</i> grant/ Centre for Biomedical Network Research on Rare Diseases (CIBERER) grant	University of Cadiz, Spain
André F. Santos	FIS grant (Spanish Ministry of Science and Innovation) / <i>Fundación Científica de la AECC</i> (Spanish Association Against Cancer)	University of Azores, Portugal
Kira Yanowsky	Centre for Biomedical Network Research on Rare Diseases (CIBERER) grant	University of Turin, Italy

Experimental Therapeutics Programme

Name	Funding Agency	PhD/MD Granting Institution
David Cebrián	CNIO	Complutense University of Madrid, Spain
F. Javier Ramos	CNIO	Autonoma University of Madrid, Spain

Biotechnology Programme

Name	Funding Agency	PhD/MD Granting Institution
María A. Abengózar	<i>Comunidad de Madrid</i> grant (Community of Madrid)	Complutense University of Madrid, Spain
David Olmeda	CNIO	Autonoma University of Madrid, Spain

Clinical Research Programme

Name	Funding Agency	PhD/MD Granting Institution
Antonio Calles	FIS (Spanish Ministry of Science and Innovation)	Complutense University of Madrid, Spain
Jenifer Clausell	CNIO	<i>Institut de Science et d'Ingénierie Supramoléculaires</i> , Strasbourg, France
Jorge Dorado	CNIO	Autonoma University of Madrid, Spain
Alicia González	CNIO	Complutense University of Madrid, Spain
Patrick Hermann	ERC advanced grant	Ludwig-Maximilians University, Munich, Germany
Enza Lonardo	Roche Diagnostics agreement	University of Naples Federico II, Italy
Monica Musteanu	<i>Fundación Caja Navarra</i> grant	Medical University of Vienna, Austria
Michele Petruzzelli	<i>Fundación Caja Navarra</i> grant	University of Utrecht, The Netherlands

Molecular Pathology and Familial Cancer Training for MDs

In line with the commitment of the CNIO to bridge the "bench to bedside" gap, the Centre offers excellent training opportunities in molecular diagnostics and familial cancer genetics for MDs and other health care professionals in collaboration with the Spanish Ministry of Health (*Ministerio de Sanidad, Política Social e Igualdad*). Training usually consists of a three-month period during residency.

For 2010, 25 medical residents from a total of 15 different hospitals carried out rotations within the different groups and units belonging to the CNIO's Molecular Pathology and Human Cancer Genetics Programmes.

Name	Field	Hospital
Carlos Barrionuevo	Pathological Anatomy	<i>Instituto Nacional de Enfermedades Neoplásicas</i> , Lima, Peru
Juanjo Borrero	Pathological Anatomy	<i>Hospital Universitario Virgen del Rocío</i> , Sevilla, Spain
Nerea Castro	Hematology and Hemotherapy	<i>Hospital Universitario 12 de Octubre</i> , Madrid, Spain
Anita Dayadalsani	Clinical Analysis	<i>Hospital Carlos Haya</i> , Malaga, Spain
Rafael de Celada	Familial Medicine	<i>Unidad de Docencia de Medicina Familiar y Comunitaria de la Comunidad de Madrid</i> (Community of Madrid), Spain
Teresa de Grado	Endocrinology and Nutrition	<i>Hospital Clínico San Carlos</i> , Madrid, Spain
Ana de la Hera	Pathological Anatomy	<i>Hospital de León</i> , Spain
Alicia de Lózar	Biochemistry	<i>Hospital Universitario 12 de Octubre</i> , Madrid, Spain
Vanessa Dosil	Clinical Analysis	<i>Hospital Clínico San Carlos</i> , Madrid, Spain
Itziar Eraña	Pathological Anatomy	<i>Hospital Universitario 12 de Octubre</i> , Madrid, Spain
Pablo Fernández	Pathological Anatomy	<i>Complejo Hospitalario Universitario de Vigo</i> , Spain
M. Carmen Gómez	Hematology and Hemotherapy	<i>Hospital Universitario 12 de Octubre</i> , Madrid, Spain
Pablo Guisado	Internal Medicine	<i>Hospital Universitario Ramón y Cajal</i> , Madrid, Spain

Molecular Pathology and Familial Cancer Training for MDs (continued)

Name	Field	Hospital
Aurelio Hernández-Lain	Pathological Anatomy	<i>Hospital Universitario 12 de Octubre</i> , Madrid, Spain
José M. Mazarico	Medical Oncology	<i>Hospital Santa Creu i Sant Pau</i> , Barcelona, Spain
M. Luisa Morell	Pathological Anatomy	<i>Hospital de la Rivera</i> , Valencia, Spain
Guillermo Muñoz	Pathological Anatomy	<i>Hospital Universitario Miguel Servet</i> , Zaragoza, Spain
Gloria Pérez	Hematology and Hemotherapy	<i>Hospital Universitario 12 de Octubre</i> , Madrid, Spain
Shirley Quintana	Pathological Anatomy	<i>Instituto Nacional de Enfermedades Neoplásicas</i> , Lima, Peru
Belinda Reyes	Pathological Anatomy	<i>Hospital General Yagüe</i> , Burgos, Spain
Gorka Ruiz de Garibay	Immunology	<i>Hospital Clínico San Carlos</i> , Madrid, Spain
Mariana E. Sánchez	Pathological Anatomy	<i>Hospital Universitario Reina Sofía</i> , Cordoba, Spain
Pedro Sánchez	Medical Oncology	<i>Instituto Português de Oncologia Francisco Gentil</i> , Lisbon, Portugal
Yasser Sullcahuamán	Genetics	<i>Instituto Nacional de Enfermedades Neoplásicas</i> , Lima, Peru
Natalia Valdiviezo	Medical Oncology	<i>Hospital Universitario 12 de Octubre</i> , Madrid, Spain

CNIO Scientists Funded by Extramural Programmes

During 2010, 10 scientists were supported by the *Ramón y Cajal* Programme, a special initiative set up in 2001 by the former Spanish Ministry of Science and Technology (currently Spanish Ministry of Science and Innovation) to encourage Spanish or foreign scientists working abroad to return or relocate to Spain. Successful candidates are selected on the basis of their potential capacity to lead independent projects and groups or to contribute successfully to the ongoing research in the existing groups. Twenty-three other scientists were funded by similar programmes, including the *Miguel Servet* (6 contracts) and *Sara Borrell* (3 contracts) programmes funded by the *Fondo de Investigaciones Sanitarias* (FIS, Spanish Ministry of Science and Innovation), the *Juan de la Cierva* programme (Spanish Ministry of Science and Innovation, 15 contracts) and the Spanish Association Against Cancer (AECC, 4 contracts).

Ramón y Cajal (MICINN, Spanish Ministry of Science and Innovation)

Name	Programme	Former Position
M. Alexandra Coelho	Molecular Oncology Programme	University Medical Center, Utrecht, The Netherlands
Manuel Collado	Molecular Oncology Programme	<i>Centro Nacional de Biotecnología</i> , Madrid, Spain
Virginia García de Yébenes	Molecular Oncology Programme	<i>Centro de Biología Molecular "Severo Ochoa"</i> , Madrid, Spain
Isabel López de Silanes	Molecular Oncology Programme	National Institute on Aging, Bethesda, USA
Ana Losada	Molecular Oncology Programme	Cold Spring Harbor Laboratory, USA
Rosa M. Marión	Molecular Oncology Programme	University of California, San Francisco, USA
Paula Martínez	Molecular Oncology Programme	University of Seville, Spain
Gulnazar Mortuza	Structural Biology and Biocomputing Programme	National Institute for Medical Research, London, UK
Matilde Murga	Molecular Oncology Programme	National Institute of Health, Bethesda, USA
Cristina Rodríguez	Human Cancer Genetics Programme	Karolinska Institute, Stockholm, Sweden

Miguel Servet (FIS, Spanish Ministry of Science and Innovation)

Name	Programme	Former Position
Sara Álvarez	Human Cancer Genetics Programme	Memorial Sloan-Kettering Cancer Center, New York, USA
Alberto Cascón	Human Cancer Genetics Programme	CNIO, Madrid, Spain
María J. García	Human Cancer Genetics Programme	University of Cambridge, UK
Antonio Maraver	Molecular Oncology Programme	Skirball Institute of Biomolecular Medicine, New York, USA
Nerea Martínez	Molecular Pathology Programme	CNIO, Madrid, Spain
Ana Osorio	Human Cancer Genetics Programme	CNIO, Madrid, Spain

Fundación Científica de la AECC (Spanish Association Against Cancer)

Name	Programme	Former Position
Patricia González	Molecular Oncology Programme	New York University Medical Center, USA
Han Li	Molecular Oncology Programme	University of Texas, San Antonio, USA
Miguel Quintela-Fandino	Clinical Research Programme	Princess Margaret Hospital, Toronto, Canada
André F. Santos	Human Cancer Genetics Programme	University of the Azores, Portugal

Juan de la Cierva (MICINN, Spanish Ministry of Science and Innovation)

Name	Programme	Former Position
Anais Baudot	Structural Biology and Biocomputing Programme	Developmental Biology Institute of Marseilles (IBDML), France
Guillaume Beranger	BBVA Foundation – CNIO Cancer Cell Biology Programme	Research Institute of Molecular Pathology, Vienna, Austria
Rafael Bernad	Molecular Oncology Programme	The Netherlands Cancer Institute, Amsterdam, The Netherlands
Sergio Casas	Molecular Oncology Programme	University of Texas Medical Branch, Galveston, USA
Carolina Epifano	BBVA Foundation – CNIO Cancer Cell Biology Programme	<i>Centro de Biología Molecular "Severo Ochoa"</i> , Madrid, Spain
María García	Molecular Pathology Programme	The Rockefeller University, New York, USA
Han Li	Molecular Oncology Programme	University of Texas, San Antonio, USA
Andrés J. López	Molecular Oncology Programme	University of Murcia, Spain
María J. Marcaida	Structural Biology and Biocomputing Programme	University of Cambridge, UK
Paola Martinelli	Molecular Pathology Programme	European Institute of Oncology, Milan, Italy
Jose A. Palacios	Molecular Oncology Programme	International Centre for Genetic Engineering and Biotechnology, Trieste, Italy
Ruth Sánchez	Molecular Oncology Programme	<i>Instituto de Investigaciones Biomédicas</i> , Madrid, Spain
Gerdine Stout	Molecular Oncology Programme	Leiden Institute of Chemistry, The Netherlands
Ludovico Sutto	Structural Biology and Biocomputing Programme	University of Milan, Italy
Damiá Tormo	Molecular Pathology Programme	University of Michigan, Ann Arbor, USA

Sara Borrell (FIS, Spanish Ministry of Science and Innovation)

Name	Programme	Former Position
Sarah Francoz	Molecular Oncology Programme	VIB - Ghent University, Belgium
Miriam Marqués	Molecular Pathology Programme	<i>Centro Nacional de Biotecnología</i> , Madrid, Spain
Esteban Orenes	Molecular Pathology Programme	University of Murcia, Spain

Río Hortega (FIS, Spanish Ministry of Science and Innovation)

Name	Programme	Former Position
Antonio Calles	Clinical Research Programme	<i>Hospital Madrid Norte Sanchinarro</i> , Madrid, Spain

Laboratory Training for BSc/MSc Students

The CNIO is committed to training promising junior scientists from the very beginning of their careers and has established a programme which offers BSc and MSc students the opportunity to obtain practical laboratory experience working on real-life research projects in one of the groups at the CNIO.

The CNIO offers two types of short-term laboratory training:

- An annual Summer Training Programme for undergraduate students from any country who are in their final two years of study in the biomedical field. The programme encompasses 8 weeks' full time laboratory training (360 hours). During this time the students actively participate in research projects in one of the groups at the CNIO. This year, 12 students from five countries participated in this programme.
- In addition to the Summer Training Programme, students can also apply for laboratory training throughout the academic year by directly contacting the heads of individual groups or units at the CNIO. During 2010, 42 students participated in this programme, of which 8 joined the CNIO as graduate students.

Name	University	Training Period	CNIO Group/Unit	Joined the CNIO as Graduate Student
Adrián Abbasi	Complutense University of Madrid, Spain	Academic year	DNA Hypermutation and Cancer Group	
Ana Angulo	Autonoma University of Madrid, Spain	Academic year	Melanoma Group	
Oriol Arqués	Pompeu Fabra University, Spain	Academic year	Epithelial Carcinogenesis Group	
Laura Bel	Autonoma University of Madrid, Spain	Academic year	Cell Division and Cancer Group	
Claudio Bellevicine	University of Naples Federico II, Italy	Academic year	Molecular Diagnostics Core Unit	
Fabian Bietz	Giesen University, Germany	Academic year	Macromolecular Crystallography Group	
Marta Brandt	University of Gdansk, Poland	Summer	Cell Competition Group	
Lourdes Camacho	University of Alcalá, Alcalá de Henares, Spain	Academic year	Gastrointestinal Cancer Clinical Research Unit	
Metehan Çifdalöz	Bogazici University, Turkey	Academic year	Melanoma Group	✓
Patricia Corrales	Autonoma University of Madrid, Spain	Academic year	Molecular Diagnostics Core Unit	
Rocio Cuevas	Complutense University of Madrid, Spain	Summer	Tumour Markers Group	
Elena Doménech	Complutense University of Madrid, Spain	Academic year	Lymphoma Group	✓
Beatriz Domínguez	Complutense University of Madrid, Spain	Summer	Lymphoma Group	
Sergio Esteban	Autonoma University of Madrid, Spain	Academic year	Tumour Markers Group	

Laboratory Training for BSc/MSc Students (continued)

Name	University	Training Period	CNIO Group/Unit	Joined the CNIO as Graduate Student
Javier Frias	Autonoma University of Madrid, Spain	Academic year	Stem Cells and Cancer Group	
Maria del Mar Gámez	<i>Centro Andaluz de Biología Molecular y Medicina Regenerativa</i> , Seville, Spain	Academic year	Chromosome Dynamics Group	
Beatriz García	Complutense University of Madrid, Spain	Academic year	Structural Computational Biology Group	
Marcial García	Autonoma University of Madrid, Spain	Academic year	Gastrointestinal Cancer Clinical Research Unit	
Silvia García	University of Alcalá, Alcalá de Henares, Spain	Academic year	Molecular Diagnostics Core Unit	
Ianire Garrobo	Autonoma University of Madrid, Spain	Academic year	Telomeres and Telomerase Group	✓
Sarah Gutkind	Tufts University, Medford, USA	Summer	Tumour Suppression Group	
Marta Hernández	Autonoma University of Madrid, Spain	Academic year	Structural Basis of Genome Integrity Group	
Daniel Herrero	Complutense University of Madrid, Spain	Academic year	Bioinformatics Core Unit	✓
Jane Kim	University of California in Los Angeles, USA	Summer	Epithelial Carcinogenesis Group	
Georgios Liappas	National and Kapodistrian University of Athens, Greece	Summer	Human Genetics Group	
Elena López	Autonoma University of Madrid, Spain	Academic year	Tumour Suppression Group	✓
Silvia Lovera	University of Turin, Italy	Academic year	Cell Division and Cancer Group	✓
Helena I. Magahaes	University of Trás-os-Montes and Alto Douro, Vila Real, Portugal	Academic year	Tumour Markers Group	
Umberto Malapelle	University of Naples Federico II, Italy	Academic year	Molecular Diagnostics Core Unit	
Elisa Manieri	University Milan-Bicocca, Italy	Academic year	Melanoma Group	
Maria L. Martínez	Complutense University of Madrid, Spain	Academic year	Cell Competition Group	
Adrian Martin	Autonoma University of Madrid, Spain	Academic year	DNA Hypermutation and Cancer Group	
Alba J. Mateos	University of León, Spain	Academic year	Stem Cells and Cancer Group	
Juan D. Mena	University Pablo de Olavide, Spain	Summer	Molecular Diagnostics Core Unit	
Laura Molina	Autonoma University of Madrid, Spain	Academic year	Computational Biophysics Group	
Lluc Mosteiro	Autonoma University of Madrid, Spain	Academic year	Tumour Suppression Group	
Vanesa Nogales	University of Córdoba, Spain	Summer	Comparative Pathology Core Unit	
Jorge Oller	Autonoma University of Madrid, Spain	Academic year	Cell Division and Cancer Group	
Julia Peña	University of Alcalá, Alcalá de Henares, Spain	Academic year	Tumour Markers Group	
Alba Pérez	Autonoma University of Madrid, Spain	Academic year	Comparative Pathology Core Unit	
Sandra Petrus	University of Vic, Spain	Summer	Genetic and Molecular Epidemiology Group	
Patricia Puerta	Autonoma University of Madrid, Spain	Academic year	Tumour Markers Group	
Nevena Rakonjac	Princeton University, USA	Summer	Cell Signalling and Adhesion Group	
Bruno Ramos	University of Murcia, Spain	Academic year	Genomic Instability Group	
Iker Rodríguez	Autonoma University of Madrid, Spain	Academic year	Stem Cells and Cancer Group	✓
María Rodríguez	Massachusetts Institute of Technology, USA	Academic year	Bioinformatics Core Unit	
Tamara Rosell	Autonoma University of Madrid, Spain	Academic year	Cell Division and Cancer Group	
Miguel Ruiz	Complutense University of Madrid, Spain	Academic year	Cell Division and Cancer Group	
Giorgio Saladino	University of Milan, Italy	Academic year	Structural Computational Biology Group	✓
María Sanz	Autonoma University of Madrid, Spain	Academic year	Cell Division and Cancer Group	
Ken Tanaka	Amherst College, USA	Summer	Stem Cells and Cancer Group	
Elena Yuste	<i>Gerencia Informática de la Seguridad Social</i> , Madrid, Spain	Academic year	Genetic and Molecular Epidemiology Group	
Gabriele Zaffagnini	University of Bologna, Italy	Summer	Cell Competition Group	
Sladjana Zagorac	University of Belgrade, Serbia	Academic year	Stem Cells and Cancer Group	

Laboratory Training for Technicians

This training programme is aimed at students in Anatomical Pathology and is organised through agreements with eight institutions of secondary education for laboratory technicians in Spain. It provides students with hands-on knowledge in cellular and molecular biology techniques. The programme consists of 19 weeks' (710 hours) laboratory training for students. In addition, two students of Analytical Assays and Quality Control and a student of Medical Archiving and Recording were trained for 13 weeks (440 hours) at the CNIO to obtain experience within a real working environment. Of the 29 students participating in this programme in 2010, 6 were hired by the CNIO.

Molecular Oncology Programme

Name	High School	CNIO Group/Unit	Joined the CNIO as Technician
Laura Alejo	<i>Valle del Miro</i>	Cell Division and Cancer Group	
Eva Martínez	<i>María Inmaculada</i>	Experimental Oncology Group	✓
Verónica Nieto	<i>Juan de Mairena</i>	DNA Replication Group	
Almudena Rebollo	<i>San Juan de la Cruz</i>	Experimental Oncology Group	
Sara Rodrigo	<i>San Juan de la Cruz</i>	Cell Division and Cancer Group	✓
María Villaverde	<i>María Inmaculada</i>	Cell Division and Cancer Group	
Zyulfie Yalmaz	<i>Escuela Técnica de Enseñanzas Especializadas</i>	Cellular Competition Group	

Structural Biology and Biocomputing Programme

Name	High School	CNIO Group/Unit	Joined the CNIO as Technician
Santa E. Guevara	<i>Juan de Mairena</i>	Macromolecular Crystallography Group	

BBVA Foundation – CNIO Cancer Cell Biology Programme

Name	High School	CNIO Group/Unit	Joined the CNIO as Technician
M. Elena González	<i>Antonio Machado</i>	Growth Factors, Nutrients and Cancer Group	
María Martín	<i>Antonio Machado</i>	Genes, Development and Disease Group	✓
Katherin Rodríguez	<i>Valle del Miro</i>	Growth Factors, Nutrients and Cancer Group	
Alejandro Ruiz	<i>San Juan de la Cruz</i>	Genes, Development and Disease Group	

Molecular Pathology Programme

Name	High School	CNIO Group/Unit	Joined the CNIO as Technician
Tania Cepa	<i>Mirasierra</i>	Tumour Bank Core Unit	
Irene Gil	<i>Lope de Vega</i>	Tumour Markers Group	
Cristina Morgades	<i>Juan de Mairena</i>	Lymphoma Group	✓
July N. Portilla	<i>Juan de Mairena</i>	Molecular Diagnostics Core Unit	✓
Raquel Sánchez	<i>Lope de Vega</i>	Molecular Diagnostics Core Unit	
Esther Torregrosa	<i>Valle del Miro</i>	Molecular Diagnostics Core Unit	
Francisco Vicente	<i>Escuela Técnica de Enseñanzas Especializadas</i>	Tumour Markers Group	

Human Cancer Genetics Programme

Name	High School	CNIO Group/Unit	Joined the CNIO as Technician
Estefanía Anguita	<i>Antonio Machado</i>	Human Genetics Group	

Experimental Therapeutics Programme

Name	High School	CNIO Group/Unit	Joined the CNIO as Technician
Scherezade Jiménez	<i>Juan de Mairena</i>	<i>In Vivo</i> Target Validation Group	

Biotechnology Programme

Name	High School	CNIO Group/Unit	Joined the CNIO as Technician
Almudena Anguita	<i>Antonio Machado</i>	Histology and Immunohistochemistry Core Unit	
Freya S. Barrera	<i>Valle del Miro</i>	Animal Facility	
Michael Bastidas	<i>San Juan de la Cruz</i>	Monoclonal Antibodies Core Unit	
Miguel Casado	<i>Escuela Técnica de Enseñanzas Especializadas</i>	Histology and Immunohistochemistry Core Unit	
Virginia Medina	<i>San Juan de la Cruz</i>	Comparative Pathology Core Unit	
Leslie A. Meléndez	<i>Valle del Miro</i>	Animal Facility	
Cristina Urbano	<i>Escuela Técnica de Enseñanzas Especializadas</i>	Confocal Microscopy Core Unit	
Carmen Zamora	<i>Escuela Técnica de Enseñanzas Especializadas</i>	Comparative Pathology Core Unit	

Clinical Research Programme

Name	High School	CNIO Group/Unit	Joined the CNIO as Technician
Iñaki Merino	<i>Antonio Machado</i>	Stem Cells and Cancer Group	✓
Aída Serrano	<i>Valle del Miro</i>	Stem Cells and Cancer Group	

Advanced Training Activities

Master's Degree in Molecular Oncology (in Spanish)

The main objective of this Master's degree is to offer up-to-date training in molecular oncology aimed at diagnosing and treating cancer. Emphasis is placed upon the latest findings in translational research (therapies based on drug design, molecules involved in tumour development, etc.) that are essential for oncological clinical practice. Upon successful completion of the 500 hours of training, a certificate for a Master's degree in Molecular Oncology is awarded. In 2010, 26 health professionals completed the fifth edition of this training initiative (2008-2010; list of students below). In addition, 38 students are currently registered in the sixth edition (2009-2011) and 37 started their studies in the seventh edition (2011-2013).

PATROINADO POR: Programa de Biología Molecular, Centro Nacional de Investigaciones Oncológicas, RECONOCIDO POR: European School of Oncology

INFORMACIÓN E INSCRIPCIÓN: Centro de Estudios Oncológicos, email: info@ceb.edu.es, Tels. 91 729 52 54 y 619 78 95 34, info@ceb.edu.es, www.ceb.edu.es

CONSEJO REGULADOR: CEB Centro de Estudios Oncológicos

PROGRAMA: BIOMOLECULAS Y CELULAS DEL CANCER
1. Clóns, genes y regulación de la expresión génica
2. Proteómica y oncogenes
3. Genes implicados en la tumorigénesis
4. Proteasas implicadas en oncogénesis.

ANATOMÍA PATOLÓGICA (PUNTO OPCIÓN):
1. Immunohistoquímica
2. Citogenética
3. Epigenética del cáncer
4. Regulación y análisis de la expresión transcriptómica celular
5. Rutas de señalización
6. Epigenética

INFORMACIÓN DE CONTACTO:
CIBERONCO: 91 729 52 54 y 619 78 95 34
CIBERESP: 91 729 52 54 y 619 78 95 34

OBJETIVO: El alumno deberá ser capaz de aplicar los conocimientos adquiridos en el campo de la oncología molecular a la práctica clínica y a la investigación biomédica. El alumno deberá ser capaz de aplicar los conocimientos adquiridos en el campo de la oncología molecular a la práctica clínica y a la investigación biomédica.

CRÉDITOS: 60 ECTS
Duración: 2 años
Modalidad: Presencial

CALENDARIO:
Inicio: Septiembre
Fin: Junio

MODALIDAD: Presencial
Duración: 2 años
Modalidad: Presencial

Name	Specialty	Place of Work
Cristina I. Aguayo	Medical Oncology	Hospital Universitario La Paz, Madrid, Spain
Isabel M. Álvarez	Medical Oncology	Hospital Donostia, San Sebastian, Spain
Pilar Blay	Medical Oncology	Hospital Universitario Central de Asturias, Oviedo, Spain
Ana Bosch	Medical Oncology	Hospital Clínico Universitario, Valencia, Spain
Andrés Carranza	Pathology	Hospital Universitario Virgen del Rocío, Sevilla, Spain
Laura Contreras	Biology	Francisco de Vitoria University, Pozuelo de Alarcon, Spain
Elena Evgenyeva	Pathology	Hospital San Jaime, Torre Vieja, Spain
Carlos García	Hematology and Hemotherapy	Hospital Arnau de Vilanova, Valencia, Spain
Alejandra Giménez	Medical Oncology	Hospital Provincial, Castellon de la Plana, Spain
M. Dolores Giráldez	Gastroenterology	Hospital Clínic de Barcelona, Spain
Elena Gómez	Hematology and Hemotherapy	Hospital Dr. Peset, Valencia, Spain
Ana M. Jiménez	Medical Oncology	Hospital Universitario de Getafe, Spain
Eugeni López	Pathology	Hospital Universitari de Girona Doctor Josep Trueta, Spain
Pablo Martínez	Medical Oncology	Hospital Vall d'Hebron, Barcelona, Spain
Luisa Morell	Pathology	Hospital Universitario de La Ribera, Alcala, Spain
Víctor Moreno	Medical Oncology	Hospital Universitario La Paz, Madrid, Spain
Pablo Pardo	Medical Oncology	Hospital Universitario Central de Asturias, Oviedo, Spain
Santiago Ponce	Medical Oncology	Hospital Universitario Ramón y Cajal, Madrid, Spain
Natalia Ramírez	Medical Oncology	Fundación Jiménez Díaz, Madrid, Spain
Isabel Rubio	Surgery	Hospital Vall d'Hebron, Barcelona, Spain
Manuel V. Salinas	Pathology	Hospital Universitario Virgen del Rocío, Sevilla, Spain
M. Luisa Sánchez	Pathology	Hospital San Pedro de Alcántara, Cáceres, Spain
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Asunción Torres	Medical Oncology	Hospital Universitari Sant Joan de Reus, Spain
M. Inés Touzón	Hematology and Hemotherapy	Centro Oncológico de Galicia, La Coruña, Spain

Associated Scientists

Name	Institution	CNIO Group/Unit
José J. Berenguer	<i>Hospital Universitario Ramón y Cajal</i> , Madrid, Spain	Experimental Oncology Group
Emma Burkitt	University of Manchester, UK	Experimental Oncology Group
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Pierre Dubus	University of Bordeaux, France	Experimental Oncology Group
Elena García	<i>Hospital Madrid Norte Sanchinarro</i> , Madrid, Spain	Gastrointestinal Cancer Clinical Research Unit
Juan F. García	M.D. Anderson International, Madrid, Spain	Lymphoma Group
Daniel Gómez	M.D. Anderson International, Madrid, Spain	Breast Cancer Clinical Research Unit
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Belén Rubio	<i>Hospital Madrid Norte Sanchinarro</i> , Madrid, Spain	Gastrointestinal Cancer Clinical Research Unit
Juan Velasco	Lilly Spain	Experimental Oncology Group

Visiting Scientists

Name	Institution	CNIO Group/Unit
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Anne Bank	Copenhagen University Hospital, Herlev, Denmark	Human Genotyping-CEGEN Core Unit
Carlos E. Barrionuevo	<i>Instituto Nacional de Enfermedades Neoplásicas</i> , Lima, Peru	Lymphoma Group
Ildefonso Cases	<i>Instituto de Medicina Predictiva y Personalizada del Cáncer</i> , Barcelona, Spain	Computational Biophysics Group
Mónica A. Castro	<i>Instituto de Oncología Ángel H. Roffom</i> , Buenos Aires, Argentina	Tumour Markers Group
Rafael C. de Celada	<i>Consejería de Sanidad de la Comunidad de Madrid</i> (Community of Madrid), Spain	Hereditary Endocrine Cancer Group
Rafael J. Chacolla	<i>Instituto Tecnológico y de Estudios Superiores de Monterrey</i> , Mexico	Human Genotyping-CEGEN Core Unit / Molecular Cytogenetics Group
Beatriz Civantos	Complutense University of Madrid, Spain	Gastrointestinal Cancer Clinical Research Unit
Giuseppe de Marco	University of Sussex, Brighton, UK	Computational Biophysics Group
Vanessa Dosil	<i>Hospital Clínico San Carlos</i> , Madrid, Spain	Molecular Cytogenetics Group
Yolanda Durán	<i>Hospital Madrid Norte Sanchinarro</i> , Madrid, Spain	Gastrointestinal Cancer Clinical Research Unit
Sridhar Epari	Tata Memorial Hospital, Mumbai, India	Lymphoma Group
Laura I. de Eugenio	<i>Centro de Investigaciones Biológicas</i> , Madrid, Spain	Stem Cells and Cancer Group
Diana Fernández	Complutense University of Madrid, Spain	Macromolecular Crystallography Group
Miguel Foronda	<i>Centro Nacional de Investigaciones Cardiovasculares</i> , Madrid, Spain	Telomeres and Telomerase Group
Maydelin Frontela	<i>Instituto Nacional de Oncología y Radiobiología</i> , La Habana, Cuba	Tumour Suppression Group
Aurora García	<i>Hospital Madrid Norte Sanchinarro</i> , Madrid, Spain	Gastrointestinal Cancer Clinical Research Unit
María García	<i>Centro Nacional de Biotecnología</i> , Madrid, Spain	Comparative Pathology Core Unit
Patricia García	Autonoma University of Madrid, Spain	Tumour Markers Group
Daniel González	University of Vigo, Spain	Structural Computational Biology Group / Bioinformatics Core Unit
Pablo Guisado	<i>Hospital Universitario Ramón y Cajal</i> , Madrid, Spain	Lymphoma Group
Naoko Irie	Keio University, Tokyo, Japan	Genes, Development and Disease Group
Rama Khokha	University Health Network, Toronto, Canada	Genes, Development and Disease Group
Iva Krizaic	University Hospital Center Zagreb, Croatia	Cell Competition Group
Astrid R. Laegreid	Norwegian University of Science and Technology, Trondheim, Norway	Structural Computational Biology Group
Laura Ledesma	<i>Hospital Universitario 12 de Octubre</i> , Madrid, Spain	Molecular Diagnosis Core Unit
Simon Leicht	University of Munich, Germany	Stem Cells and Cancer Group
Jorge P. López	University of Alcalá, Alcalá de Henares, Spain	Spectroscopy and Nuclear Magnetic Resonance Core Unit
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Simone Marsili	University of Florence, Italy	Computational Biophysics Group
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Ricardo Moreno	<i>Hospital Universitario La Paz</i> , Madrid, Spain	Epithelial Carcinogenesis Group
Marcos Palomino	University of Oslo, Norway	Macromolecular Crystallography Group
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Tirso Pons	University of La Habana, Cuba	Computational Biophysics Group

Visiting Scientists (continued)

Name	Institution	CNIO Group/Unit
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Sebastián Real	University of Barcelona, Spain	Signalling and Cell Cycle Group
Ricardo Rodríguez	Complutense University of Madrid, Spain	Genomics Core Unit
Irene Ureña	Complutense University of Madrid, Spain	Genomics Core Unit
Miguel Vázquez	Complutense University of Madrid, Spain	Structural Computational Biology Group
Andreas Ziesch	University of Munich, Germany	Stem Cells and Cancer Group
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