It’s a fact that scientific and technological developments are ahead of the legal classification that must safeguard and regulate their progress, in order to guarantee social and economic progress with the least possible amount of inequalities and distortions. Throughout history, the legal administration has been able to assume and adapt to the realities and challenges of each time, and it will have to do it again now. It’s not about controlling, guiding or slowing down scientific progress—a task which is absolutely impossible—but rather about knowing more closely and in depth its current progress, and its future potential. We must correct that deficit that affects our world, academically, legally and professionally.

Fide and the Garrigues Foundation have held, for more than five years, sessions where lawmakers and scientists meet and discuss topics of varying natures. Both institutions have built the Science and Law Dialogue Commission, with the objective to research and gain knowledge on the different scientific fields, that because of their progress or complexity, have a need of this dialogue. They also organize Work Groups, with the goal to elaborate informed and agreed upon regulation proposals in our country about each topic of analysis, debate and reflection.

The goal is to promote lines of action and cooperation, between scientists and lawmakers, that result fruitful, and as a result, constitute a source of legislative proposals, educational, and other types that prove useful for society.

An initiative conceived to accommodate a space for debate and analysis between scientists and lawmakers
Fide y la Fundación Garrigues, have constituted a Commission of experts to actively promote a line of action between scientists and jurists to create concrete legislative proposals.

The Commission is directed by Antonio Garrigues Walker, President of the Garrigues Foundation, Cristina Jiménez Savurido, President of the FIDE Foundation, and Pedro García Barreno, Doctor in Medicine and Senior Fellow at the Complutense University.

The following professionals are members of the Commission:

- **Ignacio Astarloa**, Lawyer and Legal Adviser to the Cortes Generales. CMS consultant Albiñana Suárez de Lezo. Parliamentary, Administrative and Constitutional Law Professor at Pontific University of Comillas ICADE.
- **Ignacio Ayerdi**, Ex-President of Philips Iberica.
- **Ángel Carracedo**, Legal Medicine Professor at the Santiago de Compostela University.
- **Maria Emilia Casas**, Professor of Labour Law and Social Security. President Emeritus of the Constitutional Court. Elective State Councillor.
- **Ignacio Díez-Picazo**, Chaired Professor of Procedural Law at the Faculty of Law at the Universidad Complutense of Madrid.
- **Carlos Espósito**, Public International Law Professor at the Autonomous University of Madrid.
- **María Teresa Fernandez de la Vega**, President of the State Council.
- **Luis Miguel González de la Garza**, Doctor in Law and Constitutional Law and State Theory Professor at UNED.
- **Ramón López de Mántaras**, Research Professor and CSIC and Founder and Director of the AI Research Institute at CSIC.
Science and Law Dialogues Sessions

- **Scientific and Judicial Dialogues** 16/06/2014
- **Scientific fundamentals of the politics against the use of drugs in sports**, 02/12/2014
- **Means and methods of addressing knowledge: Interdisciplinary Nature, Transcience, Omniscopy y Culturomy**, 03/02/2015
- **Medical Research on underage children: What peculiarities do pediatric clinical trials present?**, 26/02/2015
- **Judicial decisions in uncertain scientific environments. Problems and strategies**, 09/06/2015
- **The challenges of genomics**, 29/06/2015
- **Beyond quietude**, 21/10/2015
- **Scientific politics and economical development**, 18/11/2015
- **The effects of medicine on children: Where is the difference?**, 25/01/2016
- **Presentation act of Dialogues with science**, 02/02/2016
Science and Law Dialogues Sessions (II)

- The future of regenerative medicine, from stem cells to organ regeneration, 10/02/2016
- Towards the cure of child cancer: from clinical trials to individualized medicine, 16/03/2016
- The digital transformation of healthcare: Towards a holistic vision of health, Big Data and Collective Intelligence, 11/04/2016
- Longevity, cryopreservation and biological immortality, 14/04/2016
- Artificial Intelligence: Progress and obstacles, 21/04/2016
- Big Data and Collective Intelligence: Current status of European and Spanish legislation of Apps with regards to health, 05/05/2016
- Artificial Intelligence: Legal aspects, 14/06/2016
- The future of work and technology, 2050 horizon, 27/09/2016
Science and Law Dialogues Sessions (III)

- How valid is forensic evidence?, 16/01/17
- The difficult dialogue between law and genetics. Beyond bioethics, 2/02/2017
- Personalized medicine: A different perspective on the concept of illness, 22/03/17
- Neuroscience applied to advertising, marketing and communication, 2/10/17
- Autonomous cars. Challenges, opportunities and legislative barriers, 23/05/2018
- ABC of Artificial Intelligence and of Neuroscience, 1/10/2018
- Autonomy of the patient, 5/3/19
- Act of Presentation of Recommendations for the correct use of DNA analysis for forensic purposes, 19/03/19
- Problems of anti-vaccinal movements and incidence in public health, 11/04/19
- AI and Democracy in the 21st Century. Initiatives and Challenges, 21/01/2020

Upcoming Science and Law Dialogues Session(s):

- Exploration of the Solar System: Biological contamination and other associated risks, 10/2/2020
- Gender Identity, 20/2/2020
Science and Law Dialogues Work Groups

The Work Groups organized consist of professionals of utmost prestige within the different professional areas, academia, business, scientific, or from the administration. These groups reflect on judicial matters and the most relevant advances of science to create proposals about regulation or of jurisprudencial interpretation.

Current Work Group that is currently being carried out:

❖ **Surrogacy**: Fide and the Garrigues Foundation have gathered a group of professionals of varying backgrounds: jurists, doctors, professors, jurists, with the intention of elaborating an informed and consensual proposal for the regulation of surrogacy to be developed in our country.

➢ On 08/10/2018 this group presented the “Proposal to reform the Spanish regulation on the registration of filiation relationships established abroad through surrogacy”. The document can be found in this [link](#).

✓ This group continues its work of analysis and reflection
WG. DNA: Recommendations for the correct use of DNA analysis for forensic purposes: Fide and the Garrigues Foundation have called on a set of professionals to reflect upon this matter and elaborate an informative document to forward to the scientific and legal communities.

➢ On 19/03/2019, the Document with the Recommendations developed by the Working Group was presented in Fide. You can access the document by this [link](#).

WG. Neuroscience and Law: Fide and the Garrigues Foundation have convened in this workgroup a set of professionals from both the legal and healthcare sectors to advance in the study of this subject from a dual perspective, and establish a Neuroscience and Law Committee, composed of upstanding scientists and jurists, that will favor mutual knowledge of the respective areas of interest, and contribute to improve scientific-legal knowledge of jurists, and legal training of scientists. All of this in the frame of an institutionalized structure, in permanent connection with the more representative legal and scientific authorities.
We have had the privilege of counting in our sessions with:

- Ramón López de Mantaras, Research Professor at CSIC and Founder and Director of the Artificial Intelligence Research Institute, CSIC
- Cristobal Belda, Oncologist and Director of R&D at HM Hospital Group
- José Miguel García Sagredo, Full member of the Royal National Medical Academy. Honorary Professor at the Alcala University.
- Pablo de Lora, Professor of law’s philosophy, Autonomous University of Madrid, Spain
- Ricardo Herranza Quintana, Managing Director, Puerto del Hierro Hospital, Majadahonda
- Angel Carracedo, Professor of Legal Medicine, University of Santiago de Compostela
- José Esteve Pardo, Professor of Administrative Law, University of Barcelona
- Rosario Perona, Research professor at CSIC and member of the Institute of Biomedical Research (CSIC/UAM)
- Eduardo López-Collazo, Scientific Director, IdiPAZ
- Jorge Villagra Serrano, Senior Scientist, Head of Autopia Program, Centre for Automation and Robotics, CSIC
Maria Asunción Peiré, Doctor, Catalan Institute of Health. Specialist in Pediatric Pharmacology

Luca Mezzetti, Professor of Administrative Law, University of Bologna Law School, Italy

Luis Miguel González de la Garza, Doctor in Law credited by ANECA and Professor of Constitutional law and State Theory, UNED

Alberto Palomar, Titular Professor of Administrative Law (Credited by ANECA), Carlos III University of Madrid. Contentious-administrative Judge

Raquel Ballesteros, Responsible Partner, Public Law Department, Bird & Bird

Agustín Portela Moreira, Head of the Biotechnology and Biological Products Area in the Spanish Agency of Medicines and Health Products

Fernando Morales, Vice-president, Head of Legal Philips Diagnostic Imaging of Royal Philips

Luis Fernández Antelo, Contentious-administrative Judge, Supreme Justice Court of Madrid

Ignacio Ayerdi, Ex-president, Philips Iberica

Lorena Jaume-Palasí, CEO, The Ethical Tech Society

Ignacio Palomo, Director of Ginexlab and Clínica Palomo

Francisco Rubia Vila, Professor Emeritus of the Complutense and Ludwig Maximilian Universities of Munich
Rodolfo Miranda, Physics professor, Department of Physics of Condensed Matter, Autonomous University of Madrid, Spain. Director of the Institute of Advanced Research of Nanoscience of Madrid (IMDEA-Nanociencia)

Antonio Pérez Martínez, Attending physician, Hemato-Oncology Unit and Hematopoietic Transplant, La Paz teaching Hospital

Pedro García Barreno, Doctor in Medicine. Emeritus Professor, Complutense University

Gustavo Deco, Director Center for Brain and Cognition, Theoretical and Computational Group, Universitat Pompeu Fabra / ICREA

Javier de Felipe Orquieta, Research Professor at the Cajal Institute (CSIC)

Fernando Molina Fernández, Professor of Criminal Law, Autonomous University of Madrid

Elías Diaz Albo, President of the Palliative Care Society and Head of the homonymous unit of the Beata María Ana Hospital in Madrid.

María Emilia Casas Baamonde, Professor of Labor Law and Social Security. Emeritus President of the Constitutional Court. Elective State Councilor

Federico De Montalvo, President of the Bioethics Committee of Spain, IBC UNESCO

Margarita del Val Latorre, Scientific Researcher of the CSIC, Head of the Viral Immunology Group, Center for Molecular Biology, Severo Ochoa (CSIC-UAM)

Adán Cabello, Professor of Applied Physics, University of Seville
Besides the usual professionals that attend the sessions we would like to highlight some of the institutions that have participated in the Dialogue with science sessions:

- Escuela Nacional de Sanidad
- Predictive Medicine Institute
- IdiPAZ
- Artificial Intelligence Research Institute (CSIC)
- National Center of Accessibility Technologies (CENTAC)
- Vidaplus Foundation
- Royal National Medicine Academy (RANM)
- Catalan Health Institute
- Fernando Pombo Foundation
- Professor Uría Foundation
- Salud 2000 Foundation
- Oficina Española de Patentes y Marcas
- Spanish Agency of Data Protection
- Botín Foundation
- Clinical Research Organization, Chiltern International Spain
Attendance profile at the Science & Law Dialogues sessions

We gather professionals from:
✓ Companies
✓ Public Administration
✓ Law Firms
✓ Universities
✓ Other institutions
✓ All of them either national or international

We establish a dialogue between: lawmakers, economists, scientists (mathematicians, doctors, physicists, biologists, pharmacists, chemists, engineers, computer scientists, ...), etc...
Modular Programme in Science and Law

The UNED in collaboration with the Garrigues Foundation and Fide imparts this program. The 1st edition of the programme was held during the 2018/2019 academic year. The 2nd edition of the programme, corresponding to the academic year 2019/2020, will take place from Tuesday 10 December 2019 to Wednesday 10 June 2020.
Modular Programme in Science and Law

Continuous technological advances and the generation of knowledge transform societies and companies and pose a challenge to society and to governments, which are obliged to ensure that this new knowledge is properly applied and contributes to the progress of a sustainable society that supports technological and scientific development in general, with respect for people's fundamental rights and the principles of democratic coexistence.

Each new scientific knowledge must have a legal response in accordance with these rights and principles. These advances are key to the competitiveness of the country, its companies and society. It is the moment to build the way for Law to be placed next to science and technology because only in this way will it be able to respond to the challenges that the avalanche of new scientific and technological knowledge are generating.

With this objective in mind, this Modular Programme in Science and Law has been designed, which offers specialised training in subjects of great relevance and current importance. The teaching team is made up of experts from the legal and technological fields.

Link al Programa
Modular Programme in Science and Law

Why is it so important for the legal world to address frontier scientific fields in order to propose regulations in agreement with the scientists who work in those areas of knowledge?

Access the conversation Science and Law in this link (in Spanish)

Speakers: Antonio Garrigues Walker, Cristina Jiménez Savurido and Luis Miguel González de la Garza, Deputy director of Máster Science and Law, UNED
Meeting of the joint follow-up committee on the programme with the aim of analysing the outcome of the 1st course and begin preparations for the 2nd year of the programme.