



Future Trends Forum

June 12th - 14th, 2023 Madrid

Mandarin Oriental Ritz Madrid

fundación
innovación
bankinter.

Agenda

**Our future selves:
from repairing to enhancing
human capabilities**



Monday, June 12th

The networking events will take place at the Ritz Hotel

7:00pm **Beers & Networking**

We will meet at the hotel Terrace

8:30pm **Welcome Dinner**

We will meet at the Felipe IV meeting Room

Dress Code: Suit and Tie

Tuesday, June 13th

Reception of participants at 8:45am at the Royal Meeting Room. *Dress code business casual*

Welcome

Facilitators: **Frances Sellers**, Senior writer at The Washington Post and Leader of the Forum. USA

9:00am **Introduction to the Bankinter Innovation Foundation**

Juan Moreno, Managing Director of Bankinter Innovation Foundation. Spain

9:05am **Purpose and Approach of the Forum**

Frances Sellers, Senior writer at The Washington Post and Leader of the Future Trends Forum. USA

9:15am **Icebreaker**

Opening

9:20am **Overview: Setting up the challenges**

Antonio Damasio, University Professor, David Dornsife Chair in Neuroscience Professor of Psychology, Philosophy and Neurology, Director, Brain and Creativity Institute, Dornsife College of Letters, Arts and Sciences, University of Southern California. USA

Q & A

Neurotechnology

Neurotechnology Applications

10:05am **Modifying brain activity**

Alvaro Pascual-Leone, Professor of Neurology, Harvard Medical School. Co-founder and chief medical office Linus Health. Co-founder TI Solutions. Medical Director, Wolk Center for Memory Health & Senior Scientist, Marcus Institute for Aging Research, Hebrew SeniorLife, USA

10:20am **Neurotechnology developing next-generation nervous system**

Jose Carmena, Adjunct Professor at UC Berkeley & Founder and co-CEO at Iota Biosciences. USA

Q & A

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Neurotechnology Applications

Facilitators: **Frances Sellers**, Senior writer at The Washington Post and Leader of the Forum. USA

**What are they for? How do we apply them in real life?
For the benefit of human beings**

10:45am **PANEL**

Graphene nanotechnology for high-density neural interfaces- **Jose Antonio Garrido**, Founder and Chief Scientific Officer. INBRAIN Neuroelectronics. Spain

Digital neurotherapeutics - **Javier Minguéz**, Professor and Head of Neurotechnology at the University of Zaragoza (Spain), and Cofounder of BitBrain. Spain.

Static magnetic field stimulation for Parkinson's disease - **Guglielmo Foffani**, Researcher and Scientific Coordinator at HM CINAC, Group Leader at National Hospital of Paraplegics. Co-founder of Neurek. Spain

Clinical application of HIFU in neurological disorders - **M^a Cruz Rodriguez**, Director of Neurology and Neurosciences at the Clínica Universidad de Navarra. Spain

Q & A



11:35am - Coffee Break

12:00pm **PANEL**

Neurons in the human Brain – **Rodrigo Quian-Quiroga**, ICREA Research Professor. Hospital del Mar Medical Research Institute. Spain.

Whole-Brain Dynamics and Modeling - **Gustavo Deco**, Research Professor at the Institució Catalana de Recerca i Estudis Avançats (ICREA) and Professor at the Pompeu Fabra University (UPF).

Brain computer interfaces and virtual reality – **Mavi Sanchez-Vives**, ICREA Research Professor at the Institut d'Investigacions Biomèdiques August Pi i Sunyer. Co-Director of the Event Lab (Experimental Virtual Environments in Neuroscience and Technology). Spain

Neurotechnology and rehabilitation through exoskeletons - **Ander Ramos**, Neurotechnology and Translational Science Leader at TECNALIA & Univ. Tübingen. Germany

Q & A

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AI and Neuroscience entities

Facilitators: **Frances Sellers**, Senior writer at The Washington Post and Leader of the Forum. USA

12:50pm **Researchers centers in technologies such as AI and neuroscience**

Neuroscience – EBRAINS, a new European infrastructure for Neuroscience

Viktor Jirsa, Scientist in Human Brain Project and Chief Science Officer
EBRAINS. France

AI_CiTIUS

Senen Barro, professor of Computer Science and Artificial Intelligence and
scientific director of CiTIUS (Singular Research Centre on Intelligent
Technologies of the University of Santiago de Compostela - USC). Spain

Plenary Session with Mavi Sanchez-Vives

CRISPR

1:30pm **Evolution of CRISPR systems and their arrival in the clinic**

Lluís Montoliu, Research Scientist at CSIC. Spain

The RNA and Human Enhancement

1:40pm **RNA and Human Enhancement: Unveiling New Horizons in Nanomedicine**

M^a José Alonso, Professor of Biopharmaceutics and Pharmaceutical Technology at
University of Santiago de Compostela.

Gene Editing

1:50pm **The socio-political challenges of gene editing**

Joy Zhang, Reader in Sociology, Founding Director, Centre for Global Science and
Epistemic Justice. University of Kent. UK

Q&A



2:10pm - Lunch

Tuesday, June 13th

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Gene Editing and Synthetic Biology

Facilitators: **Frances Sellers**, Senior writer at The Washington Post and Leader of the Forum. USA

3.15pm Overview - Setting up the challenges of Gene Editing

Francis Collins, Senior investigator and Former Director, National Institute of Health. USA (ZOOM)

Q & A

3.45pm Synthetic Biology

James Collins, Termeer Professor of Medical Engineering & Science and Professor of Biological Engineering at MIT. USA (ZOOM)

Q & A

4:15pm AI for Antibiotic Discovery

Cesar de la Fuente, Presidential Assistant Professor at University of Pennsylvania. USA. (ZOOM)

Q & A

4:30pm Reprogramming the bioelectric software of life

Michael Levin, Vannevar Bush Professorship, Biology, Distinguished Professor, The School of Arts and Sciences and Professor, Biomedical Engineering at Tufts University. USA (ZOOM)

Q & A

5:00pm Harnessing evolution and resilience networks to reverse disease

Mauro Costa-Mattioli, Former Professor, Endowed Chair and Director of the Memory and Brain Research Center at Baylor College of Medicine, Adjunct Professor of Neuroscience at Baylor College of Medicine and Principal Investigator at Altos Labs. USA

A conversation between Mauro Costa-Mattioli and Marc Güell with Frances summarizing findings of the afternoon

Day 1 Key Takeaways

5:30pm Wrap up and key takeaways on Plenary



8:45pm - Dinner

8:30pm Meeting point at the Lobby of the Ritz Hotel

8:45pm Dinner. **Gran Café el Espejo**, Paseo de Recoletos, 31.

Wednesday, June 14th

Reception of participants at 8:45am at the Royal Meeting Room. *Dress code business casual*

Opening

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Facilitators: **Frances Sellers**, Senior writer at The Washington Post and Leader of the Forum. USA

9:00am **Welcome**

Frances Stead Sellers, Senior writer at The Washington Post and Leader of the Future Trends Forum. USA

A new narrative of those technologies

9:15am **Challenges and Opportunities of communicating these complex changes**

Scott Simon, one of America's most admired writers and broadcasters. Host of Weekend Edition Saturday and host of Up First podcast at NPR. USA

Pere Estupinyà, Presenter and director of "El Cazador de Cerebros" (The Brain Hunter) on TVE (public television). Spain

Taking these technologies to market

9:30am **Panel – Startups**

Ana Maiques, Founder and CEO Neuroelectrics. USA/Spain

Maria Lopez, Co- Founder and CEO Bitbrain. Spain

Jose Antonio Garrido, Founder and Chief Scientific Officer. INBRAIN Neuroelectronics. Spain

10:10am **Access to market & Policy**

Kristina Dziekan, Non-Executive Board Member at ONWARD. Switzerland

Q & A

Plenary Session Javier Minguéz with Frances Sellers



10:40 0am - Coffee Break

Wednesday, June 14th

The session will take place at the Royal Meeting Room

Opening

Facilitators: **Frances Sellers**, Senior writer at The Washington Post and Leader of the Forum. USA

Ethics, Transhumanism & Regulation

11:00am **Transhumanism and the future of humanity**

Anders Sandberg, Senior research fellow, Future of Humanity Institute, University of Oxford. UK

11:10am **Philosophy of neurosciences, a conversation between Antonio Damasio and Asier Arias**

Antonio Damasio, University Professor, David Dornsife Chair in Neuroscience Professor of Psychology, Philosophy and Neurology, Director, Brain and Creativity Institute, Dornsife College of Letters, Arts and Sciences, University of Southern California. USA

Asier Arias, Philosophy Professor at Complutense University. Spain

11:20am **A right to a human decision**

John Tasioulas, Professor of Ethics and Legal Philosophy; Director of the Institute for Ethics in AI. Oxford University. UK

11:30pm **Policy perspective of AI and the path towards trustworthy AI in Europe**

Isabelle Hupont, Scientific Officer at European Commission. Spain

Plenary Session

Wednesday, June 14th

The session will take place at the Royal Meeting Room

Facilitators: **Frances Sellers**, Senior writer at The Washington Post and Leader of the Forum. USA

Future Scenarios – Part I

12:00pm Designing Future Scenarios



1:30pm - Lunch

Future Scenarios – Part II

2:45pm Designing Future Scenarios

Ethics and Neuro-rights

4:15pm Neurotechnology: time for new human rights?

Rafael Yuste, Director of the Neurotechnology Center and Professor of Biology at Columbia University. USA (ZOOM)

Q & A

Wrap up & Conclusions

5:00pm Wrap up & Conclusions

Closing

6:00pm Closing

Juan Moreno, Managing Director of Bankinter Innovation Foundation. Spain

Frances Sellers, Senior writer at The Washington Post and Leader of the Future Trends Forum. USA

Get in touch with us!

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