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# Agenda

Our future selves:  
from repairing to enhancing  
human capabilities

**Future Trends Forum**

June 12th – 14th, 2023 Madrid  
Mandarin Oriental Ritz Madrid

# Monday, June 12<sup>th</sup>

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 13<sup>th</sup>

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

## Welcome

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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

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**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

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### 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<sup>a</sup> 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 Quiñan-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**

# Tuesday, June 13<sup>th</sup>

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## AI and Neuroscience entities

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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

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

**Lluís Montoliu**, Research Scientist at CSIC. Spain

## The RNA and Human Enhancement

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

**M<sup>a</sup> José Alonso**, Professor of Biopharmaceutics and Pharmaceutical Technology at  
University of Santiago de Compostela.

## Gene Editing

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**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 13<sup>th</sup>

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## Gene Editing and Synthetic Biology

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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 or 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

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**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 14<sup>th</sup>

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

## Opening

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

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

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**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

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**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 14<sup>th</sup>

The session will take place at the Royal Meeting Room

## Opening

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

## Ethics, Transhumanism & Regulation

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**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 14<sup>th</sup>

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

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12:00pm    Designing Future Scenarios



1:30pm - Lunch

## Future Scenarios – Part II

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2:45pm    Designing Future Scenarios

## Ethics and Neuro-rights

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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

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5:00pm    Wrap up & Conclusions

## Closing

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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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## Send us a message

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