

**CURIOUS2018**  
**FUTURE INSIGHT CONFERENCE**

**JULY 16-18 2018**  
Darmstadt, Germany

# WELCOME TO THE CURIOUS2018 FUTURE INSIGHT CONFERENCE

Merck, a leading science and technology company, celebrates its 350th anniversary this year. At this occasion Merck organizes a flagship scientific conference Curious2018 – Future Insight, where some of the

world's brightest scientists and most accomplished entrepreneurs come together to explore the future of science and technology and join forces to make great things happen.



***"We are fighting cancer and other serious diseases. We are helping other companies to conduct research even more quickly and efficiently. And we are developing high-tech materials with which autonomous driving or foldable displays, for example, are becoming reality. We are doing all this in close partnership with top researchers around the globe. Therefore, we are very much looking forward to a huge celebration of research with the best of the best."***

Stefan Oschmann  
Chairman of the Executive Board and CEO of Merck

## Conference topics

Join the Curious2018 – Future Insight Conference to explore the future of science and technology, to imagine and develop solutions to solve the challenges of today and to realize the dreams of a better

tomorrow. Present your work to the community, meet exceptional individuals from all over the world, start new business relationships, and join initiatives with game-changing potential.

### Healthy Lives

New breakthrough therapies and diagnostics

### Bright Future

New ways of working and collaborating

### Materials & Solutions

Chemistry and more

### Vibrant Digital

The power of in-silico

### Life Reimagined

Synthetic biology and beyond



***"The Curious2018 – Future Insight Conference is the place to meet the people that shape the global future of science & technology."***

Ulrich Betz  
Initiator and lead Curious2018 Conference and Future Insight Prize  
Vice President Innovation, Merck

# Panel discussions organized together with Nature and *Science*/AAAS

Part of the Curious2018 - Future Insight Conference program will comprise two exciting panel discussions with renowned partners.

The panel organized in conjunction with Nature will focus on the future of medicine.

The panel organized together with *Science*/AAAS will discuss the technology breakthrough of the year.

nature research

Science  
AAAS

## Media partners

Curious2018 – Future Insight is working in conjunction with a series of media partners for communicating about this conference: Nature, *Science*/AAAS, LinkedIn, Deutsche Welle and Labiotech.

nature research

Science  
AAAS

LinkedIn

DW Deutsche Welle

Made for minds.

LABIOTECH.eu

# SPEAKERS Day One – 16.07.2018



**Takuzo Aida**  
Professor  
*University of Tokyo,  
School of Engineering*

 **16:15 to 17:00**  
 **Titanium**



**Shinichi Akaike**  
Director  
*National Institute of  
Science and Technology  
Policy (NISTEP)*

 **16:15 to 17:00**  
 **Ferrum**



**Frances Arnold**  
Linus Pauling Professor  
*California Institute of  
Technology*

 **17:00 to 17:45**  
 **Ferrum**



**Ulrich Betz**  
Vice President Innovation  
*Merck*

 **13:00**  
 **Spectrum**



**Benjamin List**  
Director  
*Max-Planck-Institut für  
Kohlenforschung*

 **17:00 to 17:45**  
 **Titanium**




**Renée Mauborgne**  
Co-Director  
*INSEAD Blue Ocean  
Strategy Institute*

 **14:15 to 15:00**  
 **Spectrum**




**Stefan Oschmann**  
Chairman of the  
Executive Board and  
CEO of Merck

 **13:00 to 13:30**  
 **Spectrum**



**Naohiro Shichijo**  
Professor  
*Tokyo University of  
Technology*

 **16:15 to 17:00**  
 **Ferrum**



**Frank Stangenberg-  
Haverkamp**  
Chairman of the  
Executive Board and  
the Family Board of  
E. Merck KG

 **13:30 to 14:15**  
 **Spectrum**





**Craig Venter**  
Founder, Chairman  
and CEO  
*J. Craig Venter Institute*

 **15:00 to 15:45**  
 **Spectrum**




**Ulrich Wiesner**  
Spencer T. Olin  
Professor of Engineering  
*Cornell University*

 **17:45 to 18:30**  
 **Titanium**



**Daniel Zajfman**  
President  
*Weizmann Institute of  
Science*

 **17:45 to 18:30**  
 **Titanium**



# SPEAKERS

## Day Two – 17.07.2018



**Ruedi Aebersold**  
Professor  
*ETH Zürich*

 **16:45 to 17:30**  
 **Titanium**



**Bruce Beutler**  
Director  
*UT Southwestern  
Medical Center*

 **09:00 to 09:45**  
 **Spectrum**



**Jef D. Boeke**  
Director Institute for  
Systems Genetics  
*NYU Langone  
Medical Center*

 **17:30 to 18:15**  
 **Titanium**



**Joachim Frank**  
Professor  
*Columbia University*

 **14:45 to 15:30**  
 **Spectrum**



**Makoto Fujita**  
Professor  
*University of Tokyo*

 **17:30 to 18:15**  
 **Ferrum**



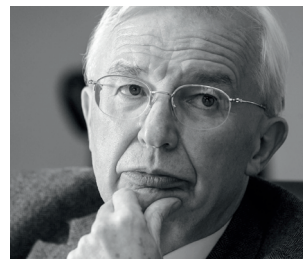
**John Gyapong**  
Vice Chancellor  
*University of Health &  
Allied Sciences*

 **12:00 to 12:45**  
 **Spectrum**



**Peter Hotez**  
Dean of the National  
School of Tropical Medicine  
*Baylor College of Medicine*

 **16:00 to 16:45**  
 **Ferrum**




**Jean-Marie Lehn**  
Professor  
*ISIS Université de  
Strasbourg*

 **14:00 to 14:45**  
 **Spectrum**



**Jeremy Nicholson**  
Professor  
*Imperial College London*

 **16:45 to 17:30**  
 **Ferrum**



**Garry Nolan**  
Professor  
*University of Stanford*

 **11:15 to 12:00**  
 **Spectrum**



**Stefan Oschmann**  
Chairman of the  
Executive Board  
and CEO of Merck

**10:30 to 10:45**  
 **Spectrum**



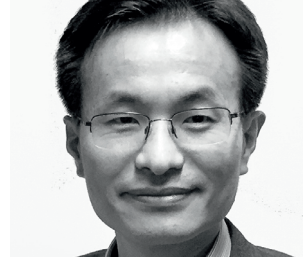
**Thomas Reiter**  
*European Space Agency  
(ESA)*

**13:50 to 14:00**  
 **Spectrum**



**Fraser Stoddart**  
Professor  
*Northwestern University*

**09:45 to 10:30**  
 **Spectrum**



**Peidong Yang**  
Professor  
*University of California,  
Berkeley*

**16:00 to 16:45**  
 **Titanium**

# SPEAKERS **Day Three – 18.07.2018**



**Varinder Aggarwal**  
Professor  
*University of Bristol*

**11:45 to 12:30**  
 **Ferrum**



**Rudi Balling**  
Professor  
*University of Luxemburg*

**14:15 to 15:00**  
 **Ferrum**



**Angela Belcher**  
Professor  
*Massachusetts Institute  
of Technology (MIT)*

**16:15 to 17:00**  
 **Spectrum**



**Ulrich Betz**  
Vice President Innovation  
*Merck*

**17:45 to 18:00**  
 **Spectrum**



**Emmanuelle Charpentier**  
Director  
*Max Planck Institute for  
Infection Biology*

**13:30 to 14:15**  
 **Spectrum**



**Mark Davis**  
Professor  
*Stanford University*

**15:00 to 15:45**  
 **Spectrum**





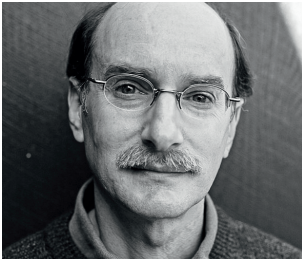
**Tom Knight**  
Co-Founder  
*Ginkgo Bioworks Inc.*

 **15:00 to 15:45**  
 **Ferrum**





**David MacMillan**  
Professor  
*Princeton University*

 **11:00 to 11:45**  
 **Ferrum**



**Dean Radin**  
Chief Scientist  
*Institute of Noetic Sciences*

 **16:15 to 17:00**  
 **Titanium**




**Justin Sanchez**  
Director  
*BTO, Defense Advanced Research Projects Agency (DARPA)*

 **09:45 to 10:30**  
 **Spectrum**



**Yoshiyuki Sankai**  
CEO  
*Cyberdyne, Inc*

 **11:45 to 12:30**  
 **Spectrum**



**Shyam Sankar**  
Director  
*Palantir Technologies*

 **16:15 to 17:00**  
 **Ferrum**



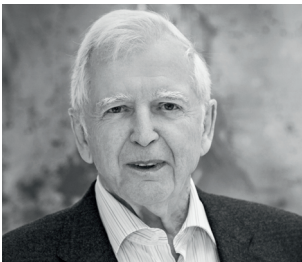
**Scott Spangler**  
Chief Data Scientist  
*IBM Watson Health*

 **11:00 to 11:45**  
 **Spectrum**



**George Whitesides**  
Professor  
*Harvard University*

 **09:00 to 09:45**  
 **Spectrum**



**Harald zur Hausen**  
Professor emeritus  
*Deutsches Krebsforschungszentrum (DKFZ)*

 **17:00 to 17:45**  
 **Spectrum**

# PANELISTS

Day One – 16.07.2018

Nature roundtable – the future of medicine

🕒 16:15 to 18:30

📍 Spectrum



**Don Cleveland**  
Professor  
*University of California  
San Diego (UCSD)*



**Carlos Caldas**  
Professor  
*University of Cambridge*



**Nancy Cox**  
Professor  
*Vanderbilt University*



**Caroline Dive**  
Professor  
*Manchester University*



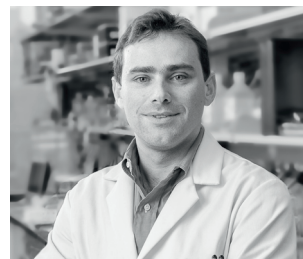
**Juan Carlos  
Izpisua-Belmonte**  
Professor  
*Salk Institute for  
Biological Studies*



**Alan Karthikesalingam**  
Senior Scientist  
*DeepMind Health*



**Crystal Mackall**  
Professor  
*Stanford University*



**David Solit**  
Professor  
*Memorial Sloan  
Kettering Cancer Center*



**Jennifer Wargo**  
Associate Professor MD  
*Anderson Cancer Center*



# PANELISTS

DAY TWO – 17.07.2018

Science roundtable – technology breakthrough of the year

🕒 16:00 to 18:15

🪑 Spectrum



**Emmanuelle Charpentier**  
Director  
*Max Planck Institute for Infection Biology*



**Matthew Rosseinsky**  
Professor  
*University of Liverpool*



**Friedericke Schüür**  
Research Engineer  
*Cloudera*



**Yang Shao-Horn**  
Professor  
*Massachusetts Institute of Technology (MIT)*



**Christina Smolke**  
Professor  
*Stanford University*



**Mary Voytek**  
Senior Scientist  
*NASA*

## ROUNDTABLE FUTURE INSIGHT PRIZE

🕒 18:15 to 19:00

📺 Spectrum



**Sir Michael Jacobs**  
Clinical lead in infectious diseases  
*Royal Free London NHS Foundation Trust*



**Christopher Milne**  
Associate Director  
*Tufts Center for the Study of Drug Development*



**Stefan Oschmann**  
Chairman of the Executive Board and CEO of Merck



**Justin Sanchez**  
Director  
*Defense Advanced Research Projects Agency (DARPA)*



**Subhanu Saxena**  
*Bill & Melinda Gates Foundation*



**Nadia Tornieporth**  
Professor  
*CEPI, Coalition for Epidemic Preparedness Innovation*



**Lothar Wieler**  
President  
*Robert Koch Institute*

# ASK ME ANYTHING SPEAKER

Curiosity Circle

## DAY ONE – 16.07.2018



**Daniel Zajfman**  
President  
*Weizmann Institute of Science*

Ⓕ 15:45 to 16:00



**Varinder Aggarwal**  
Professor  
*University of Bristol*

Ⓕ 16:00 to 16:15

## DAY TWO – 17.07.2018



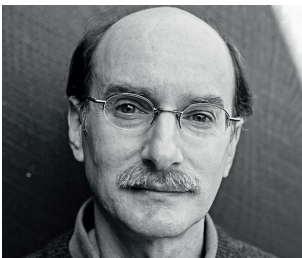
**Peter Hotez**  
Dean of the National  
*School of Tropical  
Medicine, Baylor College  
of Medicine*

Ⓕ 10:45 to 11:00



**Joachim Frank**  
Professor  
*Columbia University*

Ⓕ 11:00 to 11:15



**Dean Radin**  
Chief Scientist  
*Institute of Noetic  
Sciences*

Ⓕ 15:30 to 15:45



**Ulrich Wiesner**  
Spencer T. Olin  
Professor of Engineering  
*Cornell University*

Ⓕ 15:45 to 16:00

## DAY THREE – 18.07.2018



**Sir Michael Jacobs**  
Clinical lead in infectious diseases  
*Royal Free London NHS  
Foundation Trust*

Ⓕ **10:30 to 10:45**



**Jef Boeke**  
Director Institute for  
Systems Genetics  
*NYU Langone Medical  
Center*

Ⓕ **10:45 to 11:00**



**Christina Smolke**  
Professor  
*Stanford University*

Ⓕ **12:30 to 12:45**



**Ruedi Aebersold**  
Professor  
*ETH Zürich*

Ⓕ **12:45 to 13:00**



**Yang Shao-Horn**  
Professor  
*Massachusetts Institute  
of Technology (MIT)*

Ⓕ **13:00 to 13:15**



**David MacMillan**  
Professor  
*Princeton University*

Ⓕ **15:45 to 16:00**



**Scott Spangler**  
Chief Data Scientist  
*IBM Watson Health*

Ⓕ **16:00 to 16:15**



🕒 **13:00 to 13:30** 📍 **Spectrum**

**Opening Ceremony**

Ulrich Betz (*Merck*)

**Welcome**

David Bull (Moderator)

**Introductory Speech**

Stefan Oschmann (*Chairman of the Executive Board and CEO of Merck*)

🕒 **13:30 to 14:15** 📍 **Spectrum**

**The Merck family owned company  
– how to prosper for 350 years and beyond**

Frank Stangenberg-Haverkamp (*Chairman of the Executive Board and the Family Board of E. Merck KG*)

🕒 **14:15 to 15:00** 📍 **Spectrum**

**Blue ocean shift – beyond competing: proven steps to inspire confidence and seize new growth**

Renée Mauborgne (*INSEAD Blue Ocean Strategy Institute*)

🕒 **15:00 to 15:45** 📍 **Spectrum**

**From Digital Life to Extending Healthy Human Life**

Craig Venter (*J. Craig Venter Institute*)

🕒 **15:45 to 16:15** **Networking Coffee Break & Curiosity Ground  
- Exhibition, E-Poster Session, Curiosity Circle**

🕒 16:15 to 17:00  
🪑 Spectrum

**Moderator:**  
Joao Monteiro  
(Chief Editor  
*Nature Medicine*)

**Nature Roundtable  
The Future of  
Medicine**

🕒 16:15 to 17:00  
🪑 Ferrum

**Foresight for  
visioning science,  
technology and  
innovation policy**

Shinichi Akaike  
(National Institute of  
Science and Techno-  
logy Policy (NISTEP))

Naohiro Shichijo  
(Tokyo University of  
Technology)

🕒 16:15 to 17:00  
🪑 Titanium

**Stimuli-responsive  
smart soft mate-  
rials fabricated un-  
der nonequibrated  
conditions**

Takuzo Aida  
(University of Tokyo  
and RIKEN)

🕒 17:00 to 17:45  
🪑 Spectrum

**Moderator:**  
Joao Monteiro  
(Chief Editor  
*Nature Medicine*)

**Nature Roundtable  
The Future of  
Medicine**

🕒 17:00 to 17:45  
🪑 Ferrum

**Bringing new  
chemistry to life**

Frances Arnold  
(California Institute of  
Technology (Caltech))

🕒 17:00 to 17:45  
🪑 Titanium

**A new concept for  
asymmetric lewis  
acid catalysis**

Benjamin List  
(Max-Planck-Institut  
für Kohlenforschung)

🕒 17:45 to 18:30  
🪑 Spectrum

**Moderator:**  
Joao Monteiro  
(Chief Editor  
*Nature Medicine*)

**Nature Roundtable  
The Future of  
Medicine**

🕒 17:45 to 18:30  
🪑 Ferrum

**Curiosity driven  
research:  
Don't predict the  
future. Create it.**

Daniel Zajfman  
(Weizmann Institute  
of Science)

🕒 17:45 to 18:30  
🪑 Titanium

**Nanomaterials for  
the life sciences**

Ulrich Wiesner  
(Cornell University)

🕒 18:30 to 22:00 **Networking Night – Dinner, Topical Islands,  
AI-workshop, Dream Board & Curiosity Ground**

🕒 **08:45 to 09:00** 🪑 **Spectrum**

**Introductory Comments**  
Ulrich Betz (*Merck*), David Bull

🕒 **09:00 to 09:45** 🪑 **Spectrum**

**Rapid discovery of gene function**  
Bruce Beutler (*UT Southwestern Medical Center*)

🕒 **09:45 to 10:30** 🪑 **Spectrum**

**The rise and promise of artificial molecular machines based on the mechanical bond**  
Fraser Stoddart (*Northwestern University*)

🕒 **10:30 to 10:45** 🪑 **Spectrum**

**Announcement Future Insight Prize**  
Stefan Oschmann (*Chairman of the Executive Board and CEO of Merck*)

🕒 **10:45 to 11:15** **Networking Coffee Break & Curiosity Ground - Exhibition, E-Poster Session, Curiosity Circle**

🕒 **11:15 to 12:00**  
🪑 **Spectrum**

**Pathology from the molecular scale on up**

Garry Nolan  
(*Stanford University*)

🕒 **11:15 to 12:00**  
🪑 **Ferrum**

**Moderator:**  
Tim Appenzeller  
(*Science/AAAS*)

**Barcamp Vibrant Digital**

🕒 **11:15 to 12:00**  
🪑 **Titanium**

**Moderator:**  
Joao Monteiro  
(*Chief Editor Nature Medicine*)

**Barcamp Life Reimagined/Synthetic Biology**

🕒 12:00 to 12:45  
🪑 Spectrum

**Impacting lives through innovative delivery of global health interventions in sub-saharan Africa**

John Gyapong  
(University of Health and Allied Sciences)

🕒 12:00 to 12:45  
🪑 Ferrum

**Moderator:**  
Tim Appenzeller  
(Science/AAAS)

**Barcamp Vibrant Digital**

🕒 12:00 to 12:45  
🪑 Titanium

**Moderator:**  
Joao Monteiro  
(Chief Editor Nature Medicine)

**Barcamp Life Reimagined/ Synthetic Biology**

🕒 12:45 to 13:45 **Networking Lunch & Curiosity Ground - Exhibition, E-Poster Session, AI Workshop, Curiosity Circle**

🕒 13:45 to 13:50 🪑 Spectrum

**Introductory Comments**  
David Bull

🕒 13:50 to 14:00 🪑 Spectrum

**Space for earth: pushing the boundaries**  
Thomas Reiter (ESA Astronaut)

🕒 14:00 to 14:45 🪑 Spectrum

**Perspectives in chemistry – from supramolecular chemistry to adaptive chemistry**  
Jean-Marie Lehn (University of Strasbourg)

🕒 14:45 to 15:30 🪑 Spectrum

**Cryo-electron microscopy, and the transformation of structural biology**  
Joachim Frank (Columbia University)

🕒 15:30 to 16:00 **Networking Coffee Break & Curiosity Ground - Exhibition, E-Poster Session, Curiosity Circle**



🕒 **16:00 to 16:45**  
🪑 **Spectrum**

**Moderator:**  
Tim Appenzeller  
(*Science/AAAS*)

**Science Roundtable - Technology Breakthrough of the year**

🕒 **16:00 to 16:45**  
🪑 **Ferrum**

**The neglected diseases: Will a "new world order" reverse global gains?**

Peter Hotez  
(*Baylor College of Medicine*)

🕒 **16:00 to 16:45**  
🪑 **Titanium**

**Liquid Sunlight**

Peidong Yang  
(*University of California, Berkeley*)

🕒 **16:45 to 17:30**  
🪑 **Spectrum**

**Moderator:**  
Tim Appenzeller  
(*Science/AAAS*)

**Science Roundtable - Technology Breakthrough of the year**

🕒 **16:00 to 16:45**  
🪑 **Ferrum**

**Man, Microbes and Systems Medicine**

Jeremy Nicholson  
(*Imperial College London*)

🕒 **16:00 to 16:45**  
🪑 **Titanium**

**Biological variability and experimental biology: Threats and opportunities**

Ruedi Aebersold  
(*ETH Zurich*)

🕒 **17:30 to 18:15**  
🪑 **Spectrum**

**Moderator:**  
Tim Appenzeller  
(*Science/AAAS*)

**Science Roundtable - Technology Breakthrough of the year**

🕒 **17:30 to 18:15**  
🪑 **Ferrum**

**Crystalline sponge method for synthetic and natural product studies**

Makoto Fujita  
(*University Tokyo*)

🕒 **17:30 to 18:15**  
🪑 **Titanium**

**Genome Writing**

Jef Boeke  
(*NYU Langone Health*)

🕒 **18:15 to 19:00** 🪑 **Spectrum**

**Moderator:**  
David Bull

**Panel Discussion - Future Insight Prize**

🕒 **19:00 to 22:00** **Curiosity Night – Dinner, AI-workshop, Gadget Lounge & Curiosity Ground**

🕒 **08:45 to 08:50** 🪑 **Spectrum**

**Introductory Comments**  
Ulrich Betz (*Merck*), David Bull

🕒 **08:50 to 09:00** 🪑 **Spectrum**

**Curious2018 Future Insight - video message**  
Satya Nadella (*CEO Microsoft*)

🕒 **09:00 to 09:45** 🪑 **Spectrum**

**What is happening to chemistry?**  
George Whitesides (*Harvard University*)

🕒 **09:45 to 10:30** 🪑 **Spectrum**

**Taking synthetic biology out of the lab and into your life**  
Justin Sanchez (*Defense Advanced Research Projects Agency (DARPA)*)

🕒 **10:30 to 11:00** **Networking Coffee Break & Curiosity Ground - Exhibition, E-Poster Session, Curiosity Circle**

🕒 **11:00 to 11:45**  
🪑 **Spectrum**

**Cognitive computing for discovery**

Scott Spangler  
(*IBM Watson Health*)

🕒 **11:00 to 11:45**  
🪑 **Ferrum**

**New chemical reactions energized by light**

David MacMillan  
(*Princeton University*)

🕒 **11:00 to 11:45**  
🪑 **Titanium**

**Moderator:**  
Joao Monteiro  
(*Chief Editor Nature Medicine*)

**Barcamp**  
**- Healthy lives**

🕒 **11:45 to 12:30**  
🪑 **Spectrum**

**Cybernetics revolution: Fusion of humans, robots and information systems**

Yoshiyuki Sankai  
(*Cyberdyne, Inc.*)

🕒 **11:45 to 12:30**  
🪑 **Ferrum**

**Assembly line synthesis creating molecules with tailored shape**

Varinder Aggarwal  
(*University of Bristol*)

🕒 **11:45 to 12:30**  
🪑 **Titanium**

**Moderator:**  
Joao Monteiro  
(*Chief Editor Nature Medicine*)

**Barcamp - Healthy Lives**

🕒 **12:30 to 13:15** **Networking Lunch & Curiosity Ground**  
- Exhibition, E-Poster Session, AI Workshop, Curiosity Circle

🕒 **13:15 to 13:30** 🪑 **Spectrum**

**Introductory Comments**  
David Bull

🕒 **13:30 to 14:15** 🪑 **Spectrum**

**The transformative CRISPR-Cas9 technology: Origins and applications**  
Emmanuelle Charpentier (*Max Planck Institute for Infection Biology*)

🕒 **14:15 to 15:00**  
🪑 **Spectrum**

**Engineered T-cells for cancer therapy**

Crystal MacKall  
(*Stanford University*)

🕒 **14:15 to 15:00**  
🪑 **Ferrum**

**From diagnosing diseases to predicting diseases**

Rudi Balling  
(*University of Luxembourg*)

🕒 **14:15 to 15:00**  
🪑 **Titanium**

**Moderator:**  
Joao Monteiro  
(*Chief Editor Nature Medicine*)

**Barcamp - Materials & Solutions**

🕒 **15:00 to 15:45**  
🪑 **Spectrum**

**Standing on the shoulders of mice: Adventures in human immunology**

Mark Davis  
(Stanford University)

🕒 **15:00 to 15:45**  
🪑 **Ferrum**

**Building scale & breadth at the ginkgo bioworks foundry**

Tom Knight  
(Ginkgo Bioworks Inc.)

🕒 **15:00 to 15:45**  
🪑 **Titanium**

**Moderator:**  
Joao Monteiro  
(Chief Editor  
*Nature Medicine*)

**Barcamp - Materials & Solutions**

🕒 **15:45 to 16:15** **Networking Coffee Break & Curiosity Ground - Exhibition, E-Poster Session, Curiosity Circle**

🕒 **16:15 to 17:00**  
🪑 **Spectrum**

**Giving new life to materials for energy, the environment and medicine**

Angela Belcher  
(Massachusetts Institute of Technology (MIT))

🕒 **16:15 to 17:00**  
🪑 **Ferrum**

**Man, machine, magic**

Shyam Sankar  
(Palantir Technologies)

🕒 **16:15 to 17:00**  
🪑 **Titanium**

**Magic: Ancient, Modern, and Future**

Dean Radin  
(Institute of Noetic Sciences)

🕒 **17:00 to 17:45** 🪑 **Spectrum**

**Role of infectious agents in human colon cancer**  
Harald zur Hausen (German Cancer Research Center DKFZ)

🕒 **17:45 to 18:00** 🪑 **Spectrum**

**Closing comments and outlook**  
Ulrich Betz (Merck)



## DAY ONE – 16.07.2018

🕒 15:45 to 16:00 🪑 Curiosity Circle

**Daniel Zajfman**  
President  
*Weizmann Institute of Science*

🕒 16:00 to 16:15 🪑 Curiosity Circle

**Varinder Aggarwal**  
Professor  
*University of Bristol*

## DAY TWO – 17.07.2018

🕒 10:45 to 11:00 🪑 Curiosity Circle

**Peter Hotez**  
Dean of the National School of Tropical Medicine  
*Baylor College of Medicine*

🕒 11:00 to 11:15 🪑 Curiosity Circle

**Ruedi Aebersold**  
Professor  
*ETH Zürich*

🕒 15:30 to 15:45 🪑 Curiosity Circle

**Dean Radin**  
Chief Scientist  
*Institute of Noetic Sciences*

🕒 15:45 to 16:00 🪑 Curiosity Circle

**Ulrich Wiesner**  
Spencer T. Olin  
Professor of Engineering  
*Cornell University*

## DAY THREE – 18.07.2018

🕒 10:30 to 10:45 🪑 Curiosity Circle

**Sir Michael Jacobs**

Clinical lead in infectious diseases  
*Royal Free London NHS Foundation Trust*

🕒 10:45 to 11:00 🪑 Curiosity Circle

**Jef Boeke**

Director Institute for Systems Genetics  
*NYU Langone Medical Center*

🕒 12:30 to 12:45 🪑 Curiosity Circle

**Christina Smolke**

Professor  
*Stanford University*

🕒 12:45 to 13:00 🪑 Curiosity Circle

**Rudolph Aebersold**

Professor  
*ETH Zürich*

🕒 13:00 to 13:15 🪑 Curiosity Circle

**Yang Shao-Horn**

Professor  
*Massachusetts Institute of Technology (MIT)*

🕒 15:45 to 16:00 🪑 Curiosity Circle

**David MacMillan**

Professor  
*Princeton University*

🕒 16:00 to 16:15 🪑 Curiosity Circle

**Scott Spangler**

Chief Data Scientist  
*IBM Watson Health*

ASK ME ANYTHING SPEAKER

# MODERATION



## David Bull

is a medical doctor and an award-winning TV-presenter and broadcaster. He presented over 35 shows over 20 years on UK and US Television including BBC, ITV, Channel 4, Channel 5, Sky Network, and Food Network. He is a passionate campaigner for health and believes we need to empower people to make positive choices when it comes to their lifestyles. David will be the lead moderator for the conference.

## Tim Appenzeller

leads Science's award-winning news section and supervises its global team of staff and freelance writers and editors. He has spent 30 years as an editor and writer specializing in science and the environment for magazines including Scientific American, U.S. News & World Report, and National Geographic. Tim will discuss with panelists about the technology breakthrough of the year and moderate one workstream of Curious2018.



## Joao Monteiro

received his medical training at the Federal University, Rio de Janeiro, Brazil, where he also earned a PhD degree, studying mechanisms of Treg function and loss of tolerance to self-antigens in autoimmune diseases. He has been serving the scientific community as a professional editor since 2013. Joao joined Nature Medicine as Chief Editor in December 2017. Joao will moderate the Nature panel and one workstream of Curious2018.

## Jake Yeston

joined the staff at Science in 2004. In his current role as a Deputy Editor, he oversees the editorial group handling all research content in the physical sciences. Jake earned an AB in chemistry, Harvard University and a PhD in chemistry, University of California-Berkeley. He conducted postdoctoral research in ultrafast spectroscopy at the Max Planck Institute for Quantum Optics, Garching, Germany on a Humboldt fellowship, and then worked as a National Research Council fellow at the National Institute of Standards and Technology. Jake will moderate one workstream of day three at Curious2018.



# CONFERENCE SPECIALS INTERACTIVE EXHIBITS NETWORKING SESSIONS AND AN ARRAY OF INNOVATIVE CONFERENCE FORMATS

## Curiosity Ground

Do not miss your chance to dive deep into the Curious2018 conference topics. Start collaborations for future innovation and share your ideas and thoughts with other participants at the evening get-togethers.

***"We keep moving forward, opening new doors, and doing new things, because we're curious and curiosity keeps leading us down new paths."***

Quote by Walt Disney

### Barcamp

With the overall goal to engage with the audience, we offer the innovative Barcamp format. All presentations are limited to a maximum of 10 minutes. There will be no Q&A or introduction between presenters. The format can be anything from a PowerPoint presentation to a free speech.

### Exhibition

A variety of companies will showcase at exhibition booths throughout the location. They will present their current product and service portfolio and highlight recent projects. Engage in further conversation around the conference topics and start new collaborations. Take the chance to learn more about Merck, the initiator and sponsor of the Curious2018 – Future Insight Conference.

### AI Workshop

How is Artificial Intelligence affecting the way we collaborate and work together? This workshop will be held in cooperation with Fraunhofer IAIS. It will also involve a discussion about AI's potential, how it will shape the future of work and how it can be leveraged for your business.

### E-Poster

Throughout the event location, participants will be able to present their current work, projects and research on screens. Deep insights into groundbreaking research will be possible through digital presentations at the electronic poster sessions.

### Curiosity Circle

Come and visit the so-called "AMA (ask me anything) Circle" at the ground floor. Get in touch with the speakers of the conference and raise all your questions.

# Experience curiosity

## Evening events

Networking night: The first night offers a networking event for all conference participants to interact with each other. Topical islands on each of the conference topics will allow for deeper conversations amongst conference participants and allow likeminded people to network, share their dreams of the future, and visit our curiosity ground.

Curiosity Night: The second night will be a curiosity night. Join the panel about the Future Insight Prize, discover the Gadget Lounge and open a conversation with other curious minds.

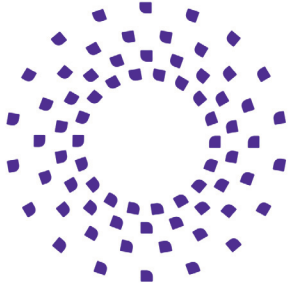
Both evening events include dinner.

## Event App

During the conference, the **Curious2018 App** will help to guide you through the event with useful information on speakers, keynotes, and interactive session formats. See who is participating, request meetings, customize your agenda and participate in surveys and polls!

You have received a confirmation email including the information with further instructions regarding the **Curious2018 App**. Please download the app on iTunes or at the Google Play store.

# FUTURE INSIGHT PRIZE – GLOBAL IMPACT FOR HUMANKIND



**FUTURE  
INSIGHT  
PRIZE**

The Curious2018 – Future Insight Conference will be the birthplace of the Future Insight Prize. The prize will create a vision for ambitious dream products of global importance for humankind, and trigger curiosity and creativity to make this vision a reality.

The prize will be awarded annually from 2019, to honor people whose work has enabled significant progress towards making the vision of these dream products a reality, by way of discovering or developing new ground-breaking science or enabling technologies.

**The prize will be officially rolled-out and further details shared by Stefan Oschmann on July 17th 10:30 at the Curious2018 – Future Insight Conference.** There will also be a panel discussion on the Future Insight Prize the same day at 18:15.



# GENERAL INFORMATION

## Location

### Address:

Darmstadtium  
Schlossgraben 1  
64283 Darmstadt



## Arrival by plane

From the international Airport Frankfurt am Main, the Darmstadtium can be reached by train or car (detailed instructions see below). Additionally, one can use the AirLiner, a public bus service, which connects the airport and the Darmstadtium directly.

## Arrival by car

Leaving the A5 highway at the exit „Darmstadt Mitte“ or approach on the A67, following the signs for „Darmstadt“ and likewise take the next exit „Darmstadt Mitte“. Both routes take you onto the feeder road to the city centre, which later becomes Rheinstraße (B26). Follow the signs to „Darmstadtium“ or „Aschaffenburg“ (B26). After the City-Tunnel turn left at the next traffic light (signposted). Darmstadtium offers an underground car park. Additional parking spaces are available in connected and neighbouring car parks.

## Shuttles

You will receive detailed information about shuttle service to hotels on-site.

## Arrival by public transport

Just five minutes with public transport departing from Darmstadt main station (Hauptbahnhof), which is also served by ICE high speed trains.

Bus and tram services run to and from the central bus station (Zentraler Omnibusbahnhof, ZOB), which is located near the main entrance on the east side of the central train station. The tram and bus routes (trams: 2&3; buses: F, H, K, K55, K56, K85, n71, 671, 672, 673, 674, 677, 678, 681, 682, 684, and 693), run directly to the Darmstadtium (stop called „Schloss“). More trams and buses run to „Luisenplatz“, which is only a few minutes' walk from Darmstadtium.

## Accommodation

Please check our website [www.curious2018.com](http://www.curious2018.com), go to the ATTEND section for our recommendation on hotels.

# Curious2018 is sponsored by Merck at the occasion of its 350th anniversary

Merck is all about science and technology. Founded in 1668, Merck is the world's oldest pharmaceutical and chemical company and the founding family remains the majority owner of the publicly listed corporate group.

[www.curious2018.com](http://www.curious2018.com)

Please write to [info@curious2018.com](mailto:info@curious2018.com)

Repository to download at  
[Curious2018.com/repository](http://Curious2018.com/repository)

## **Imprint:**

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In 2018, we celebrate our 350th anniversary. These 350 years of history have shaped our ideals – from the very beginning. That's how we became what we are today: a leading science and technology company.

The Merck logo is displayed in a bold, teal-colored, sans-serif font.A large, abstract blue graphic with a grid pattern and a bright light source, resembling a stylized globe or a futuristic design, occupies the bottom right portion of the page.

**CURIOUS2018**  
FUTURE INSIGHT CONFERENCE