

# What is UniStem Day?

**UniStem Day** is a one-day meeting organized for high school students since 2009. This event, solely dedicated to the dissemination and outreach of stem cell science and research, provides an opportunity to foster learning, discovery and debate on the themes of knowledge and innovation starting from stem cell research. The event showcases cutting edge research, paints a picture of the daily work of a scientist, and explores the mechanisms behind scientific breakthroughs, including the cultural expectations. By offering lessons, debates, visits at the laboratories and recreational moments, the students engage with the concepts and methodologies involved in stem cell research. Furthermore, they will gain an appreciation for science and how it can be fun and build personal character and relationships based on evidence, perseverance and integrity. As with previous years, UNISTEM DAY 2019 will bring together Universities and High Schools from all over the world by involving 99 Universities in Australia, Austria, Colombia, France, Germany, Greece, Holland, Hungary, Italy, Singapore, Spain, Poland, Portugal, Sweden and United Kingdom.

**UniStem** is the Centre for Stem Cell Research of the University of Milan founded in 2006 by Profs. E. Cattaneo, G. Cossu, F. Gandolfi and Y. Torrente (unistem.it). The UNISTEM DAY 2019 event is one of many UniStem activities on stem cell research divulgation and this year it celebrates the 11th annual day dedicated to secondary school students and can boast being the largest public event on stem cell research in Europe.

**Fondazione TIM** born in 2008 as an expression of ethical principles, of the strong commitment of responsibility towards the community and the spirit of innovation of Tim. The commitment is to work for an ever-increasing digital, innovative and competitive Italy, collaborating with the institutions to carry out the projects and making available the economic resources and skills of the Group.

THE EVENT WILL HAPPEN IN 15 COUNTRIES



Concept and Coordination:

**uniStem**  
Università degli Studi di Milano Centro di Ricerca sulle Cellule Staminali

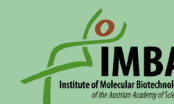
Supporter:



Sponsor:



in collaboration with  
**FONDAZIONE**  
**TIM**



15  
März 2019 9.00  
Uhr

# UniStem Day

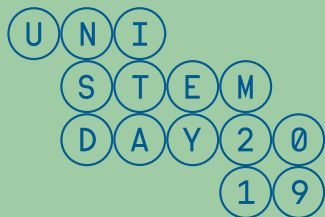
Wissen und innovation:  
die endlose Reise der  
Stammzellforschung

(if you surf the web with your eyes closed)

# IMBA Institute of Molecular Biotechnology

Dr.-Bohr-Gasse 3,  
1030 Wien,  
Austria

**15 March 2019**  
**9.00 am**



## About them

Biotechnology is one of the leading biomedical research institutes in Europe focusing on cutting-edge functional genomics and stem cell technologies. IMBA is located at the Vienna Biocenter, the vibrant cluster of universities, research institutes and biotech companies in Austria. IMBA is a subsidiary of the Austrian Academy of Sciences, the leading national sponsor of non-university academic research. [www.imba.oeaw.ac.at](http://www.imba.oeaw.ac.at)

**The Vienna BioCenter (VBC)** is a leading life sciences location in Europe, offering an extraordinary combination of research, education and business on a single campus. About 1,600 employees, more than 1,000 students, 93 research groups, 16 biotech companies, and scientists from more than 40 nations create a highly dynamic environment. [www.viennabiocenter.org](http://www.viennabiocenter.org)

**Open Science** promotes dialogue between science and society. The Vienna based non-profit, scientific association is committed to making life sciences visible, tangible and understandable, and enable people - from school children to grownups - to form their own opinion on life sciences topics.

**The Vienna Open Lab** is a joint initiative of Open Science and the Institute of Molecular Biotechnology (IMBA). The hands-on life science laboratory targets groups of any age, ranging from 6 to 99 and offers various workshops for children, teenagers and grown-ups. Young scientists who have been trained as tutors assist the "lab members for a day" in performing a wide range of experiments in the fields of genetics, genetic engineering and biotechnology. More than 85.000 000 people have visited the Vienna Open Lab since opening in 2006.

### Introductory talk

IMBA group leader and stem cell researcher Dr. Ulrich Elling provides a general overview about stem cells, current developments in the field, and its impact for research and society

### Tour through the stem cell nursery

Students will have the unique opportunity to have a look behind the scenes of the IMBA Stem Cell Core Facility, to learn how skin cells are being reprogrammed and cultivated, and get an exclusive look at the lab grown organoids

## Program

### Stemcell workshop: theoretical introduction and real "lab work"

- Hands on stem cell workshop at the Vienna Open Lab:
- 1.5 hours program in the lab supervised by tutors
- IMBA Stem Cell Facility Provides Stem Cells for the Workshop
- Researchers of the Stem Cell Facility provide additional expertise
- Planned points: changing media splitting cells etc

### Ethical role game

In a role game the students reflect upon different perspectives on stem cell research, for example from the point of view of an affected patient/ a researcher/ a clinician/ an ethical committee, etc. These discussions will be based on educational material provided by the Viennese knowledge transfer NGO "Open Science", and material provided by the German Stem Cell Network, and the IMBA bioethics department. Students will interact and debate in small groups