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 2020 will bring together Universities and High Schools from all over the world by involving 101 Universities in Australia, Austria, Colombia, France, Germany, Greece, Holland, Hungary, Italy, Spain, Poland, Portugal and Sweden.

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 2020 event is one of many UniStem activities on stem cell research divulgation and this year it celebrates the 12th 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 13 countries

Supporter: **eurostemcell.org**

EuroStemCell

Sponsor:

OPEN SCIENCE

VIENNA OPEN LAB

Part of Vienna BioCenter

6th march 2020

UniStem Day

Knowledge and innovation: the neverending trip of stem cell research

Concept and Coordination:

uniStem

Università degli Studi di Milano Centro di Ricerca sulle Cellule Staminali

in collaboration with

FONDAZIONE TIM

IMBA
Institute of Molecular Biotechnology
of the Austrian Academy of Sciences

IMBA Institute of Molecular Biotechnology

IMBA Institute of Molecular Biotechnology
Dr.-Bohr-Gasse 3
1030 Wien, Austria

6th march 2020

UNI STEM DAY 2020

About IMBA

IMBA - Institute of Molecular Biotechnology - is one of the leading biomedical research institutes in Europe focusing on cutting-edge stem cell technologies, functional genomics, and RNA biology. 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. The stem cell and organoid research at IMBA is being funded by the Austrian Federal Ministry of Science and the City of Vienna.
www.imba.oeaw.ac.at

About Vienna Open Lab

Vienna Open Lab, a joint initiative by Open Science and the Institute of Molecular Biotechnology, is Austria's first hands-on laboratory and officially opened its doors in May 2006. By creating a place where children, adults and scientists experiment together Vienna Open lab did pioneering work and quickly became successful. Only three years later they reached their first milestone of 10,000 visitors and established a second laboratory in 2014. To this date, Vienna Open Lab provides two laboratories on 114 square metres and welcomes around 13,500 visitors per year.
https://www.viennaopenlab.at/de/

About Open Science

The goal of Open Science, a non-profit scientific association, is to promote and foster dialogue between science and the public. It works closely with experts to make life sciences visible, tangible and understandable. Open Science draws on many years of experience and expertise in science communication when working on projects with a variety of target groups. The association operates independently and is committed to scientific integrity. Open Science does not represent any particular opinion on the applications of molecular biotechnology.
https://www.openscience.or.at/de/

Targeting 240 Students

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 cells can be reprogrammed and cultivated, and get an exclusive look at the different lab grown organoids.

Stemcell workshop: theoretical introduction and real "lab work"

In a hands-on workshop supervised by tutors of the Vienna Open Lab, students have the chance to work with real iPS cells from The IMBA stem cell core facility, where they learn to change media and split cells.

Ethical role game

In a role game the students learn to 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

Ask a stem cell scientist

In an informal context, students can interact with young stem cell researchers (Master and PHD students) at IMBA and ask them any career or science related question.