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CorEuStem: The European Network for Stem Cell Core Facilities

<https://www.cost.eu/actions/CA20140/#tabs+Name:Description>

Action Chair: Dr Laura Batlle Morera and Action Vice Chair: Dr Laurent David.

NEWSLETTER

January



Happy New Year to everyone!

Meetings

The **First CorEuStem Annual Meeting** took place on the 29th-30th June 2022, in Castelldefels, Spain (<https://coreustem.eu/news/one-month-since-coreustem-mc-annual-meeting/>).

The Management Committee (MC) members from 28 of the 36 countries belonging to CorEuStem COST Action met to discuss their work and plans to foster interaction in the areas of stem cell research, gene editing and standardisation of methodologies across European Core facilities. Members from each country presented on the stem cell work being carried out in their respective country and discussed what they expected to gain from participation in the COST Action. There was discussion on the state of stem cell technologies and gene editing expertise within the facilities in each country. The WG leaders and co-leaders reported on their activities in the first part of the COST action year and what they would like to achieve in the second year of the Action.

In addition, the **Web page** <https://coreustem.eu/> and the **Logo** were presented at the Annual Meeting and set up for use in social media platforms,



Linkedin <https://www.linkedin.com/company/cost-ca20140-coreustem-the-european-network-for-stem-cell-core-facilities/?viewAsMember=true> and Twitter <https://twitter.com/CorEuStem> . The Annual Meeting was also reported on TikTok!

In 2023, the Symposium “**Standardising Stem Cell Core Facilities in Europe**” will gather together European Core Facilities representatives and will be hosted by CorEuStem in Portugal, 27-28 April. The symposium will take place at the Champalimaud Foundation in Lisbon, and will bring together experts from the different core facilities in Europe, to discuss the latest advances in human stem cells and gene editing technologies. A preliminary agenda of the meeting can be found here: <https://coreustem.eu/upcoming-events/>



Short-Term Scientific Missions (STSMs)

The first year of the CorEuStem short term scientific missions allowed hands-on training in hPSC culture, primary cell reprogramming to pluripotency and small molecule screening using hPSCs (<https://coreustem.eu/news/first-year-coreustem-short-term-scientific-mission/>).

STSM 2023

Call for applications for STSM in the framework of the COST Action CorEuStem (CA20140), Grant Period 2 is open:

- **Deadlines**
15th March 2023, and 15 May 2023.
- Missions should be completed by 1st October 2023
- Submit an STSM application on e-COST (<https://eservices.cost.eu/conferencegrant/apply/new>); The applicant must have a profile on e-COST (<https://e-services.cost.eu/>).
- For questions regarding the STSMs contact:
Jolanda.vanhengel@ugent.be

International Society for Stem Cell Research (ISSCR) Activities

The mission and working group activities of the COST Action CorEuStem was presented at the **Annual Meeting of the International Society for Stem Cell Research** in San Francisco in June 2022.



<https://www.isscr.org/guidelines>



CorEuStem agreed to translate the **ISSCR Guidelines for Stem Cell Research and Clinical Translation**, which are currently available in English and German, into Spanish and Portuguese to facilitate dissemination of these guidelines across Europe and South America.

Press Release: „How stem cell research can improve people’s lives“

To mark the **Stem Cell Awareness Day** on October 12, 2022, COST highlighted the CorEuStem network of researchers as a hub, working to foster greater understanding of stem cell research. The potential use of stem cells in clinical application, will provide hope to millions of people suffering from incurable diseases and injury. Stem cells have changed the way we understand the human body, its development, and associated diseases.

Read the full press-release on Cost official website here: <https://www.cost.eu/stem-cells-coreustem/>

Training Activities

CorEuStem Working Group 2 organised two online training workshop and webinars to expand knowledge in the area of gene editing :



Webinar 1: Introduction into Crispr/Cas9 technology and
Webinar 2 Base Editing & Prime Editing in hiPSCs – an alternative to HDR?)



A two day on-line course on basic maintenance of Pluripotent Stem Cells (PSCs), PSC propagation and basic PSC culture techniques was delivered in September. Leading experts in PSC field presented on a range of current techniques and protocols covering PSC thawing, maintenance, freezing under defined conditions, the evolution of genome engineering, a typical Cas9 editing workflow and PSC Quality Control.

The CorEuStem Flyer can be found here:

 [flyer COREUSTEM \(1\) \(1\).pdf](#)

Description of the Action

The **COST Action CorEuStem** – The European Network for Stem Cell Core Facilities is comprised by experts in stem cell biology, differentiation, organoids and gene editing technologies with the aim of developing an efficient and effective consortium for harmonizing procedures and protocols across Europe and beyond. **CorEuStem** consortium seeks to become a Pan European reference point for stakeholders in stem cell biology and associated technologies.

Core facilities in European research centers and universities providing services in these fields are becoming a reference hub for know-how for these technologies. Furthermore, they establish initial quality control standards and homogenize procedures to enhance reproducibility in biomedical research. However, one of the major challenges for core facilities is to keep track of all advancements in cutting-edge technologies.

New protocols, reagents and tools continuously develop and need to be tested. Isolated technical platforms cannot follow the fast-moving technology pace. Therefore, there is an urgent need to join forces and link these core facilities to harmonize methodologies used to increase the overall reproducibility of the results produced in different labs, from different institutions within Europe and to increase their impact.

Contact us!

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CorEuStem

The European Network
for Stem Cell Core
Facilities

Join us!



CRG
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EUROPEAN COOPERATION
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The CorEuStem team