

Infrafrontier Newsletter - May 2024

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INFRAFRONTIER NEWS

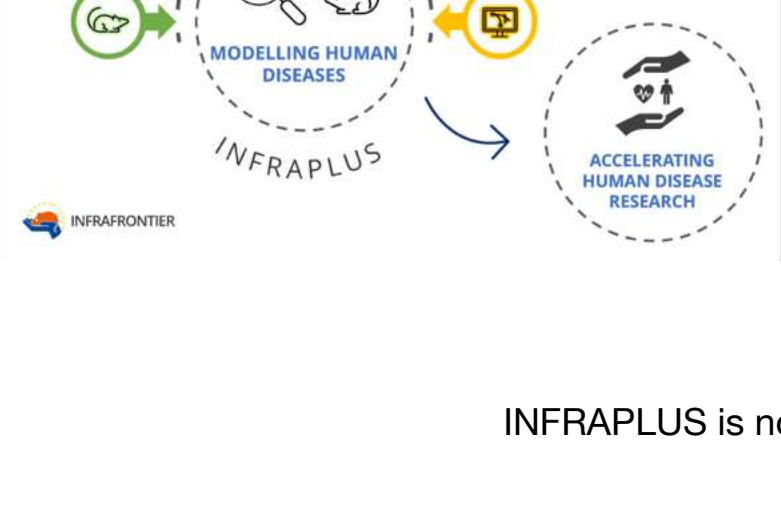
We are excited to present the first issue of **INFRAFRONTIER News**. This semi-annual newsletter will keep you informed about our most relevant updates. Enjoy the read!

Time: 7 minutes

Featured Announcement

New INFRAPLUS project kicks-off in June

INFRAFRONTIER is pleased to announce its new activity INFRAPLUS, which will be launched in June this year. With the support of the European Commission, we will refine our service portfolio for human disease modelling. Building on our strength in in-vivo disease modelling, we will further expand the technologies and services we offer to our users. This includes **customised innovative in-vivo models** using gene editing CRISPR-Cas9, the **development and validation of new in-vitro models** – organoids, organs-on-chips and 3D-printed organs – as well as the **development of new disease-oriented screens and preclinical services**. In all these activities, the focus is on further **strengthening the 3Rs** (replacement, reduction, refinement). To keep our user community up to date on all these exciting new developments, we will organise three annual INFRAFRONTIER conferences as part of INFRAPLUS, and we will keep you posted in our upcoming newsletters.



INFRAPLUS
Enhancing and Evolving INFRAFRONTIER Disease Modelling Capacity to Enable Breakthrough Research

Starting date: June 2024
Duration: 3 years

INFRAPLUS is now online! [Click HERE](#)

Open Calls



Get FREE access to cancer research services!

The **OPEN CALL** for Transnational Service Provision of canSERV will close in 4 days! If you work in the field of oncology, take advantage of over 400 advanced cancer services **FREE-OF-CHARGE** through this pan-European initiative.

What do INFRAFRONTIER partners offer?
Read full service descriptions [HERE](#)

<p>Generation of precision cancer mouse models using CRISPR-Cas9</p>	<p>In-depth cancer-based phenotyping</p>	<p>Cancer and gut microbiota interaction pipeline in mouse models</p>
<p>Secondary phenotyping of cancer mouse models</p>	<p>Intravital microscopy with fluorescent biosensors in mouse models of cancer</p>	<p>Digital pathology and Machine Learning-based image analysis</p>

[APPLY NOW](#)

Deadline: 21 May at 2pm (CEST)

Challenge Call "Reaching an Understanding of Cancer"

If your cancer research is related to **inflammation, cancers with poor prognosis or rising incidence, identification of new modifiable cancer risk factors, or identification of targets to develop biomarkers**; your chances of accessing our services **free-of-charge** are higher! Apply for the Challenge Call "Reaching an Understanding of Cancer" until 23 July at 2pm (CEST).

More info [HERE](#)

Training Opportunities With Our Partners



Mouse Genetics and Colony Management for Animal Technologists

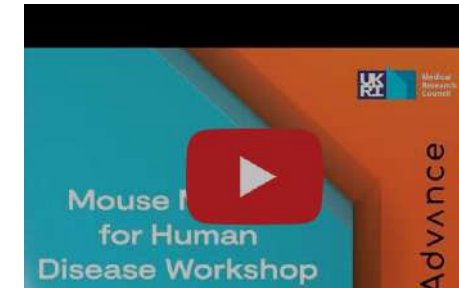
This course introduces animal technicians and researchers to the background of mouse genetics and will cover topics such as Mendelian gene inheritance and genetic crosses, as well as important colony management aspects.



- Dates: 1 - 2 July 2024
- Organiser: FreeAdvance at MRC Harwell
- Details [HERE](#)

Mouse Models for Human Disease Workshop

This workshop will bring together a team of experienced mouse geneticists who will guide you through the process of designing and implementing a mouse research project plan and the subsequent data analysis.



- Dates: 23 - 27 September 2024
- Organiser: FreeAdvance at MRC Harwell
- Details [HERE](#)
- Applications until 31 May

Microinjection and Electroporation

This course provides tailored and hands-on training in embryo harvesting, set up and operation of microinjection rigs, pronuclear and cytoplasmic microinjection and the process of electroporation to introduce CRISPR-Cas9 reagents to embryos.



- Dates: 8 - 10 October 2024
- Organiser: FreeAdvance at MRC Harwell
- Details [HERE](#)



Mouse Pathobiology Workshop

This workshop embedded in MorphoPHEN, the Erasmus Mundus Joint Master on Human Diseases Models Morphological Phenotyping, will be held at the Universitat Autònoma de Barcelona (UAB).



- Dates: 14 - 16 October 2024
- Organiser: MorphoPHEN, UAB
- Details [HERE](#)

Other Relevant Trainings

Establishing and Maintaining a Germ-Free Facility

This course is designed to provide a comprehensive introduction into how germ-free facilities can be run on a day-to-day basis and will be led by experts in gnotobiology (both academic and industry partners) using a 'hands-on' approach to establishing and maintaining a germ-free facility.



- Dates: 15 - 16 October 2024
- Organiser: University of Manchester
- Details [HERE](#)

Upcoming Events

6 June 2024 | Resources and Funding Opportunities in Rare Diseases

Resources and Funding Opportunities in Rare Diseases

Free Advance Training Centre at MRC Harwell

Date: 6 June 2024 | Time: 09:30-17:00
Networking Reception: 17:00 - 18:00

You are invited to an exciting day of talks and discussions centered around "Resources and Funding Opportunities in Rare Diseases".

The event aims to bring together stakeholders across sectors to explore and discuss the critical resources in the UK and funding avenues available for rare disease research in the UK and Europe.

For registration and the programme please scan the QR code. We look forward to your participation.

Participation is free, but space is limited. Registration Deadline: 27 May



This event aims to provide insights into resources available in the UK and funding opportunities for research into rare diseases in the UK and Europe. Academia and industry will come together to discuss how public-private collaborations can be established in the field and how to overcome present and future challenges.

- Organiser: FreeAdvance at MRC Harwell
- Details [HERE](#)
- Registration until 27 May

17-18 September 2024 | 6th CCP Phenogenomics Conference

6th CCP Phenogenomics Conference 2024

Prague & on-line - 17 - 18 September



The main topic selected this year is **rare diseases**: experimental models & delivery of therapies

- Organiser: Czech Centre for Phenogenomics
- More info coming soon at www.ccp-conference.cz

Job Vacancies



Research Veterinarian at ICS

Institut Clinique De La Souris (ICS) in Strasbourg is recruiting a Research Veterinarian for a 1-year contract, with the possibility of extension.

- Details [HERE](#)
- Applications until 13 June

Flashback News

INFRAFRONTIER Got on #BOARD24!

INFRAFRONTIER joint the Be Open about Animal Research Day (#BOARD24) celebration on 3 May. We are proud to stand together with over 1000 institutions in promoting transparency in animal research, and emphasise our commitment to animal welfare through three dedicated cards highlighting our 3R practices.



[read full story](#)

An Excellent Collaboration Experience: INFRAFRONTIER and IMPC Journeyed Together to TAGC

INFRAFRONTIER and IMPC joined forces at The Allied Genetics Conference in Washington DC to promote their resources and portfolio in front of several model communities. Apart from being an excellent opportunity to establish connections with new researchers, we were fortunate to coincide with many partners and colleagues.



[read full story](#)

INFRAFRONTIER Engages with Rare Disease Experts at RARE 2023 Conference in Budapest

INFRAFRONTIER recently engaged with rare disease experts at the RARE 2023 Conference in Budapest. Lively discussions at our booth focused on disease models, while sessions explored various perspectives, from early diagnosis biomarkers to palliative care. A fabulous opportunity to engage with this scientific community.



[read full story](#)

INFRAFRONTIER ERIC: A Key Achievement Defining a New Era

After a long time in the making, INFRAFRONTIER has officially become an ERIC (European Research Infrastructure Consortium). This significant milestone emphasises INFRAFRONTIER's dedication to excellence and collaboration across Europe in pioneering research initiatives. It would not have been possible without the support of the Founding Members: Czech Republic, Finland, France, Germany, Greece and Sweden. Exciting times coming!



[read full story](#)

The Collaboration within the European Project EO5C-Life Culminates in its Landmark Publication on FAIR Principles in Life Science Data Handling

The EO5C-Life consortium publishes an article in the EMBO Journal, outlining effective measures to boost the utilization and sustainability of data resources. The study also presents twelve recommendations for handling research data in alignment with FAIR principles.



[read full story](#)

Updates From Our Partners

The Finnish EMMA Node Successfully Concludes a Course on Tissue Analysis for Doctoral Students

The Finnish EMMA node, in collaboration with the University of Oulu, successfully concluded a practical Tissue Analysis Course for doctoral students. Delving into disease modelling and digital pathology, among other topics, the participants gained invaluable insights and resources to enhance their research career.



[read full story](#)

Successful Launch of "Fibroses Visitor Programme" With the Visit of Dr. Yoshitaka Fujiwara

The visit of Dr. Yoshitaka Fujiwara marks the successful startup of the Fibroses Visitor Programme launched by our partner in Finland, the University of Oulu. In this way, Dr. Fujiwara has become the first visiting professor supported by the mentioned programme. The 2-weeks stay took place last October thanks to the hospitality of Dr. Renata Prunskate-Hyyryläinen's laboratory.



[read full story](#)

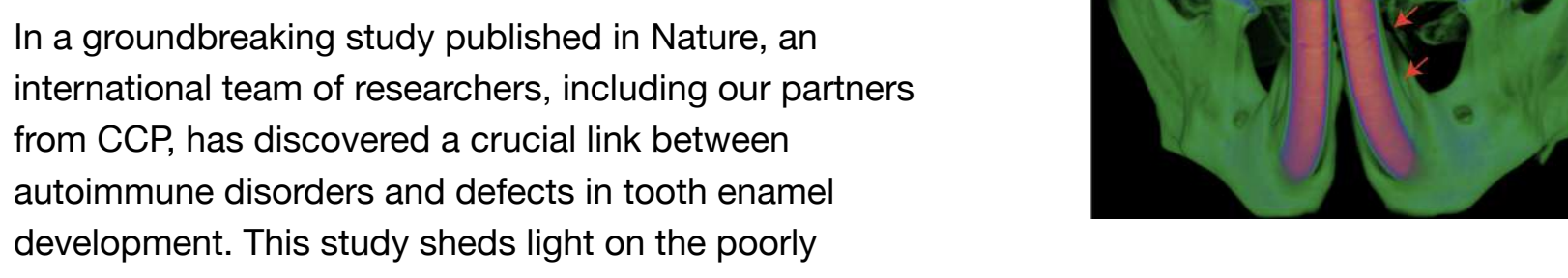
A Link Between Autoimmune Disorders and Tooth Enamel Defects Revealed

In a groundbreaking study published in Nature, an international team of researchers, including our partners from CCP, has discovered a crucial link between autoimmune disorders and defects in tooth enamel development. This study sheds light on the poorly understood conditions of Autoimmune Polyglandular Syndrome Type-1 (APS-1) and Celiac Disease.



[read full story](#)

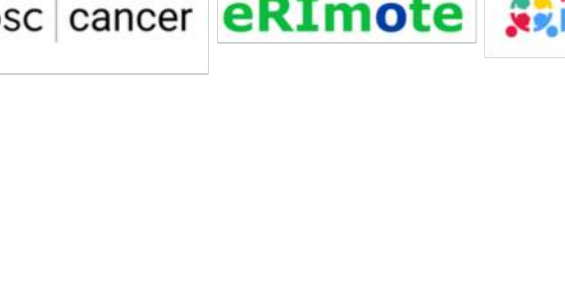
Current European Collaborations



Learn more [HERE](#)

Thanks for making it to the end! 🙌

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takes just 1 minute



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