



## October 2020

ERA21 presents a new webinar series for early-career scientists! The series will kick-off on Nov. 4 at 1 p.m. ET. Tune in to hear Dr. Pilar De la Puente present on 'Modeling cancer in 3 dimensions using patient-derived 3D cultures' and Lubnaa Hossenbaccus discuss her research on 'Validating the Environmental Exposure Unit as an experimental clinical model for perennial allergic rhinitis'. Registration is available at:

[https://zoom.us/webinar/register/WN\\_ovuMYciWQQi6JU48yIWg\\_Q](https://zoom.us/webinar/register/WN_ovuMYciWQQi6JU48yIWg_Q)

A promotional graphic for the ERA21 webinar series. It features a background image of a scientist in a lab coat and safety glasses working in a laboratory. Overlaid on the image is the ERA21 logo (a circuit icon) and the text "ERA21 Early-Career Researchers Advancing 21st Century Science". To the right, the Physicians Committee logo is visible. The text "PRESENTS A WEBINAR SERIES for early-career scientists by early-career scientists" is centered. Below this, an orange banner says "Beginning Fall 2020". A light blue curved banner contains the text: "This series will give students and early-career researchers the platform to present their work, gain experience answering questions from their peers, and participate in thoughtful discussion with fellow scientists." At the bottom, a dark blue banner reads: "We're looking for scientists interested in presenting their human-relevant research!" and a white banner below that says: "If you would like to be a part of this webinar series, please contact Janine McCarthy at [jmccarthy@pcrm.org](mailto:jmccarthy@pcrm.org)".

If you are interested in presenting in an upcoming webinar, please contact Janine McCarthy at [jmccarthy@pcrm.org](mailto:jmccarthy@pcrm.org).

**Don't forget to join the ERA21 [Facebook](#) & [LinkedIn](#) groups!**

## Featured Scientific Articles

*Check out this month's featured articles to learn more about new human-relevant research scientists are currently conducting.*

### [A Dynamic COVID-19 Immune Signature Includes Associations with Poor Prognosis](#)

Laing AG, Lorenc A, del Molino del Barrio I, et al. A dynamic COVID-19 immune signature includes associations with poor prognosis. Nature Medicine. 2020.

### [Polygenic Architecture Informs Potential Vulnerability to Drug-Induced Liver Injury](#)

Koido M, Kawakami E, Fukumura J, et al. Polygenic architecture informs potential vulnerability to drug-induced liver injury. Nature Medicine. 2020.

## Employment Opportunities

The [Mumenthaler lab at the University of Southern California](#) is hiring a postdoc to develop cutting-edge preclinical models (e.g. organoids and organ-on-chips) to investigate tumor microenvironment interactions impacting colorectal cancer progression.

[TARA Biosystems](#) has openings for a senior research scientist and engineer.

MultiCASE is hiring a Computational Toxicology Research Associate to conduct (Q)SAR modeling research projects. This position requires special attention to cheminformatics, specifically in the pharmaceutical and computational toxicology area. Interested applicants should send letter of interest and resume to [sales@multicase.com](mailto:sales@multicase.com).

[AxoSim](#) is looking for a research associate to support assay development and execution as they work alongside pharma partners to develop safer and more effective treatments.

The Wyss Institute for Biologically Inspired Engineering at Harvard University has an opening for a [postdoctoral fellow position in the Brain Targeting Program \(BTP\)](#). The position will focus on the discovery of new targets and engineered transport vehicles to carry therapeutic and diagnostic payloads into the brain.

The [Canadian Centre for Alternatives to Animal Models](#) is recruiting postdocs to develop human biology-based in vitro platforms for disease modelling and toxicity testing—areas of interest include human stem cell-based disease modelling, cellular and tissue engineering, synthetic biology, in vitro & computational toxicology, and science policy.

## Upcoming Events

The third webinar in the [Antibodies webinar series](#) will take place on **October 15 at 10 a.m. ET**. Learn more the application of animal-free antibodies. This webinar series is co-organized by the US National Toxicology Program Interagency Center for the Evaluation of Alternative Toxicological Methods, the PETA International Science Consortium Ltd., and the European Union Reference Laboratory for alternatives to animal testing.

The second webinar in the [Animals, Climate Change, and Global Health webinar series](#) will take place on **October 16 at 12 p.m. ET**. Tune in to learn about COVID-19: With or Without Animals? Speakers will use SARS-CoV2 as an example to discuss why using research methods and tools that are based on human biology is crucial to finding effective and safe treatments and cures for human illnesses. More information and registration at [animalsclimatehealth.com](http://animalsclimatehealth.com)

The [9th annual meeting of the American Society for Cellular and Computational Toxicology](#) will be held virtually **October 20-22**, no registration fee will be charged. There will be opportunities for mentoring, awards, and flash poster presentations for students and early-career scientists working in the in vitro and computational toxicology fields.

The [ERA21 webinar series](#) for will kick-off on **November 4 at 1:00 pm ET**. Tune in to hear Dr. Pilar De la Puente present on 'Modeling cancer in 3 dimensions using patient-derived 3D cultures' and Lubnaa Hossenbaccus discuss her research on 'Validating the Environmental Exposure Unit as an experimental clinical model for perennial allergic rhinitis'. Registration is available at:

[https://zoom.us/webinar/register/WN\\_ovuMYciWQQi6JU48yIWg\\_Q](https://zoom.us/webinar/register/WN_ovuMYciWQQi6JU48yIWg_Q)

The [Lush Prize 2020 Conference](#) will be held **November 11-12**, with the theme 'Can Big Data Replace Animal Testing?' and will include discussions on 'Paving the way from big data to regulatory acceptance', and 'The role of big data in next generation risk assessment'. Registration is free.

Are you a postgraduate student or early-career scientist working in biosciences or toxicology? Applications are now being accepted for the

2021 edition of the [JRC Summer School on Non-animal Approaches in Science](#) organized by the European Commission's Joint Research Centre. The JRC Summer School provides attendees with a unique opportunity to learn from experts in the field, share knowledge and experience with their peers, build their professional network, and more. Deadline to apply is **January 6**.

The Laboratory for Stem Cells and Tissue Engineering at Columbia University is hosting "[TISSUE TALKS](#)" every **Wednesday at 3 p.m. ET**. These virtual seminars will feature leaders in the field of tissue engineering from around the globe. To register fill out the [google doc](#).

Organoid and Organs-on-Chip Trainee Symposium is [now available on YouTube](#).

### **Funding Opportunities**

The [National Science Foundation Graduate Research Fellowship Program](#) is accepting applications for 2021. The purpose of this program is to help ensure the vitality and diversity of the scientific and engineering workforce of the United States. The program recognizes and supports outstanding graduate students who are pursuing full-time research-based master's and doctoral degrees in STEM or STEM education. Deadline to apply is **October 19**.

The [National Center for Advancing Translational Science \(NCATS\)](#) has issued two Notices of Special Interest to support research in collecting and examining data on the risks and outcomes for COVID-19 infections using tissue chips. Such work is expected to advance the translation of research findings into diagnostics, therapeutics, and vaccines. Applications for both opportunities will be accepted on a rolling basis from **May 15, 2020, through January 25, 2022**.

The [European Society of Toxicology In Vitro \(ESTIV\)](#) is offering three travel grants of a maximum €500 each to three young scientists wanting to participate in the [JRC Summer School 2021 on Non-animal Approaches in Science: The Three R...evolution](#), to be held from **May 18-21, 2021** at the European Commission Joint Research Centre in Ispra, Italy. Deadline to apply for the ESTIV travel award is **January 31**.

The [ERA21 program](#) is offering a travel grant of a maximum \$1,800 to one early-career researcher attending university or working in North America to participate in the [JRC Summer School 2021 on Non-animal Approaches in Science: The Three R...evolution](#), to be held from **May 18-**

**21, 2021** at the European Commission Joint Research Centre in Ispra, Italy. Deadline to [apply for the ERA21 travel award](#) is **January 31**.

## **Learn More About Human-Based Research**

The ERA21 team wants to bring human-based research to your institution! We can help organize an educational speaker series or host a symposium on human-based research at your university. Please contact Janine McCarthy at [jmccarthy@pcrm.org](mailto:jmccarthy@pcrm.org) for more information.

### **[Good Science Digest](#)**

Find out what Physicians Committee scientists have to say about the latest obstacles and advances in replacing animal use with human-relevant methods in research, testing, and education.

### **[Ethical Science News](#)**

*Ethical Science News provides the latest updates on human-relevant research advances to replace animal use.*

### **[Explore human-relevant research happening in labs across the United States](#)**

Stay Connected!

*[Join the ERA21 Facebook group](#) for updates on 21st century science and to connect with fellow scientists.*

#### **Physicians Committee for Responsible Medicine**

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