

HAPPY NEW YEAR EVERYONE!

After what has been another shocker of a year, it's time to look ahead and not backwards. So this month we take a look at what is coming up in the world of OoaC in 2022:



ECR Newsletter
January 2022

A quick look ahead at 2022

Special Issues. Submit your papers!



There are plenty of upcoming special issues in journals that will help give your paper that extra visibility:

[Organ-on-a-Chip Technologies Network Special Issue](#) in the New springer journal [In Vitro Models](#) to showcase the work of Network members.

[Organoids and organ-on-a-chip systems](#) special issue in Scientific Reports' submit by February 22.

[Microfluidic Artificial Organs](#) special issue submit by 20th Jan 22, and [Micromachines for neurological research](#) special issue submit by 30th June 22. Both in [Micromachines](#).

Conferences. Get them in your diary now!



What: [Next Gen Organ-on-Chip & Organoids](#) workshop with Talks from Prof. Matthias Lütolf and Prof Don Ingber

Postponed from January to: 23-24th August

Where: Geneva

Is it free? YES it is.



What: [LIFE-ON-CHIP Conference](#) An excitingly titled hybrid conference healthTech's flagship event, will focus on cross-over innovations in Health. Testimonials of pioneering researchers, entrepreneurs and first application movers. With a Meet & Match online function too. Think scientific speed dating.

When: Feb 9 - 10, 2022

Where: Leuven, Belgium

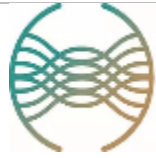


What: [BioChip Berlin](#)

When: 10-11 May 2022.

Where: Berlin, Germany

Is it free? No but almost! Tickets are just 39Euros



MPS WORLD SUMMIT
CONNECT, EXCHANGE, EDUCATE

What: [The MPS world summit](#). Hybrid conference with talks from the ever present Don Ingber, leader in body-on-a-chip and CEO of Hesperos; Michael Shulerand and pioneer of the first liver on chip and champion of Women's health research; Linda Gay Griffith.
Where: New Orleans, USA,
When: May 30 – June 3, 2022
Abstract Submission Deadline: January 31st



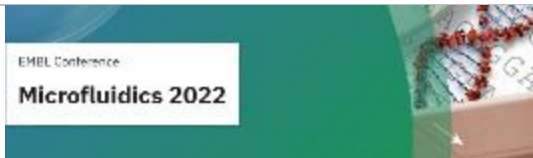
What: [Organoids and Organs-on-Chips Europe 2022 with](#) Key notes from Andries Van der Meer, Noo Li Jeon, Nancy Allbritton and many more.
When: 21st – 22nd June
Where: Rotterdam, The Netherlands
How much? Students are \$475, otherwise \$600



Same time and place as above. It's [Lab-on-a-Chip and Microfluidics Europe 2022](#)



What: [EUROoCS 2022](#) The Annual Meeting European Organ-on-Chip Society with all the movers and shakers in the field. A must in the OoaC calendar.
When: 4th – 5th July 2022
Where: Grenoble in France
More info coming soon



What: EMBL Conference [Microfluidics 2022](#)
When: 11 - 13 July
Where: Heidelberg
Deadlines
Abstract submission: 19 April
Registration 9 May

ECR events coming up in 2022:



2022 is going to be an exciting year for OoaC ECRs. The ECR group is hoping to expand their online presence with member interviews on the [YouTube account](#), conversations and tips on [the forum](#), more content on the [Twitter](#) and hopefully coming soon.... a Twitter Spaces event where we will have experts talking about what OoaC means to them and how they are using them to progress their research.



After the huge success of 2021 **Grant Prix, grant writing workshop**, we are planning to hold another this summer. We'll be making a few tweaks to make it even better! If you didn't make it last time listen out for the next Grant Prix.. Coming this summer.



Also coming soon...

A summer poster competition. Re-use your old posters or make new ones, we don't care! This is about getting together, having conversations and building an ECR community.. oh, but it is still a competition so there will be prizes!

The event will be online on Gathertown so no need to worry about even leaving your bedroom. Watch this space for further information.

Now back to the usual content....

Researcher Spotlight: Every month get to know a new Network ECR



Who are you? [Dr Adrian Biddle](#), Lecturer, Blizard Institute, Queen Mary University of London

What is your organ? Oral cancer

What is your chip? Microfluidic tumour metastasis chip - Alice Scemama, a PhD student in my lab, makes the chips herself. PDMS on a glass cover slip with microfluidic channels.

Why? We want to understand in detail how cancer stem cells interact with the tumour microenvironment during oral cancer metastasis

Tips on chips: Share your microfluidic tips. Email [Paul](#) or post on the [ECR forum](#).



A tip on tubes: A small droplet of isopropyl alcohol (IPA) on Polydimethylsiloxane (PDMS) inlets / outlets can shrink the PDMS temporarily allowing for easier insertion of tubing. This is useful not to split the PDMS when inserting the tubing and additionally lubricates the tube insertion.

Matthew Hockley

Question of the month:



Last month:

“Online lab books Yay or nay? What are you using?”

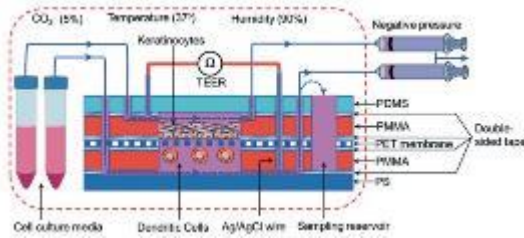
A recommendation from Matthew Hockley: [Colabra](#). While Paul Holloway is stuck in the past.

This week:

Serum: Replace, define or is FCS fine?

Let us know [ON THE ECR FORUM](#) or send in a question you'd like asked next month

Chip of the month:



Every month we will highlight an interesting/unusual / lesser known chip.

This month:

We draw your attention to the largest organ in the body. [Skin-on-a-chip models: General overview and future perspectives \(nih.gov\)](#)

Updates in the field:



Stem cell reports special issue.

If you haven't already, it's worth checking out the Stem Cell Reports Special issue [Organ-on-Chip and microphysiological systems](#) with interviews with key experts in the field, perspectives on improving the drug discovery pipeline and the usual reviews and articles.



Recordings of the MPS WORLD SUMMIT VIRTUAL PRE-CONFERENCE [session 1](#) and [session 2](#) now available online for FREE!!



Tell us what you have been up to!

Share your achievements, papers, awards or whatever you like with the community.

Post on the [NEW ECR FORUM](#) or email the [ECR group](#).

Opportunities:



[How to apply for a New Investigator Research Grant \(NIRG\) Webinar](#)

Wednesday 19 January 14:00 – 15:30 and join us to find out more about the funding scheme, tips for applying and the opportunity to ask question



Heads up! FRAME will be accepting applications for their [Summer Studentships](#) in January 2022 (for 6-10 week projects with £1000 of consumables and £250 per week salary)

For your ears:

Learn during those long hours in the lab and beat the boredom of pipetting with our picks from this month.



Space, the final frontier

Find out more about organ-on-a-chips in SPACE!

[Ep 70: Organs on Chips in Space | NASA](#)

For your eyes:



Flavio Bonanini, Haley Ehlers, and Arya Lekshmi Nair are ECRs, under Marie Skłodowska-Curie Grants, at MIMETAS. Check out their fun [video](#) showing how nutrients make their way through the body on the way to the brain and how different Organ-on-a-Chip models can help study different organ functions.

And just for fun..



Need a break?

Why not play a game and help fellow researchers learn more about the shape and function of proteins, and contributing to cancer, Alzheimer's disease, and HIV/AIDS research. Twist and contort your protein into its most stable and highest-scoring shape in [this game: Foldit](#)



Bad Joke of the Month

A biologist, an engineer, and a mathematician were in a bar and saw two people enter the single occupancy toilet. A few moments later three people came out.

The biologist remarked, "Ooh, they must have reproduced."

The engineer said, "Our initial count must have been incorrect."

The mathematician stated, "It's OK. Now if just one more person goes into the toilet, it will be completely empty!"

Have your say!

Got any news or info you'd like added to the newsletter? Or would you like to organise an event for the Organ on Chip ECR group? Ping the ECR group an email at : paul.holloway@rdm.ox.ac.uk
Or get on the [NEW FORUM](#).