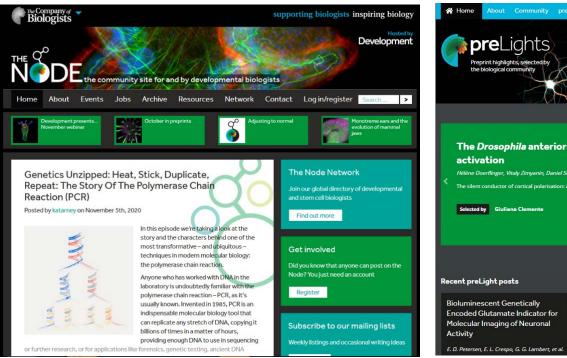
# FocalPlane

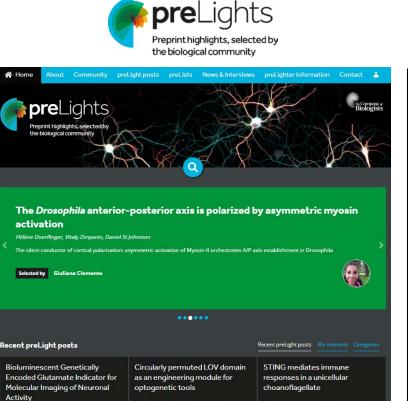
A community site for microscopists and biologists



## Community sites run by the Company of Biologists







Legun Geng, Jiaqi Shen, Wenjing Wang

Arielle Woznica, Ashwani Kumar, Carolyn R.

Sturge, et al.





## A community site for microscopists and biologists

#### Christophe Leterrier and Ricardo Henriques around this time spotted a similar gap in the market



The enthusiasm from the microscopy community secured the support of The Company of Biologists and gave the go-ahead for the development of the website and the **FocalPlane** project started





## Scientific Advisory Board





#### **Ricardo Henriques**

University College London and The Francis Crick Institute, London, UK



#### Christophe Leterrier

INP, CNRS-Aix Marseille Univeriste, Marseille, France







#### Lucy Collinson

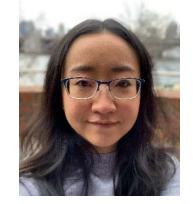
Electron Microscopy Science Technology Platform, The Francis Crick Institute, London, UK

Jennifer Lippincott-Schwartz

Janelia Research Campus, Ashburn, Virginia, USA

Florian Jug

Max-Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany





#### Jennifer Li

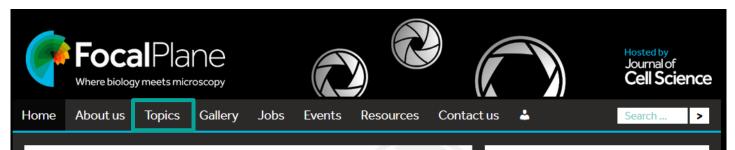
Max-Planck Institute for Biological Cybernetics, Tübingen, Germany

#### Kota Miura

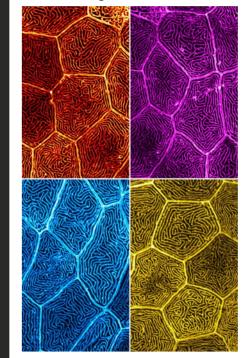
Vice-chair, The Network of European Bioimage Analysts, (NEUBIAS)



## FocalPlane content



#### Featured image



The apical surface of epithelial cells is thrown into laterally long actin rich protrusions, termed microridges. The image depicts microridges on the epidermal cells in a 3-day old zebrafish embryo which function as actin reservoirs to help in mucous retention and abrasion resistance.

The image was submitted to FocalPlane by **Shivali Dongre** who's done her Bachelor's and Master's in India. She did her Master's by research at the Tata Institute of Fundamental Research at Prof. Mahendra Sonawane's lab, where she worked on the interplay between polarity and adhesion in the zebrafish epidermis. Since January 2021, she has joined the Vastenhouw Group at the Centre for Integrated Genomics, University of Lausanne for her PhD.

#### Other highlights

- FocalPlane user survey
- Technology highlights Structured Illumination Microscopy (SIM)
- LSFM series Surfing on the data freak wave! PART I: Knowing your turf, knowing your surf!
- A career path to bioimage analysis
- Foldscope goes to the Peruvian Amazon!

#### Get involved

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## Topics





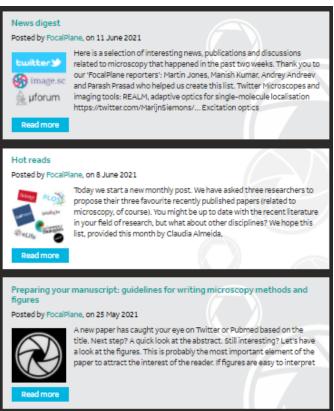
All content is categorised into 9 topics. A registered user/contributor's post appears in the blog section of the homepage in the order of the date posted

## Anyone can post!



## Topics





## You will also find some posts we prepare inhouse.



## **Blog series**

2P-DSLM - 2P3A-DSLM - 2P-SPIM - 2PE-SPIM - 2PE-SPIM - 2PLS-SOFI - 3D LSM -3P LSFM - Adaptive SPIM AFM-LS - aLSFMM - AO-LSFM - AO-SPIM - ASLM - 8BPI - c-LSFM - csiLSFM - CLSM - COLM - compactLSFM CTLS - DC LSF IC- DiaSLM - dI3CLSFM - dISPIM - DIY-SPIM - ds9PIM - DSLM - DSLM - Edu-SPIM - EDOSLM

- FL-DSLM - FLIM-SPIM OPFOS - IML-SPIM - InVi InVi-SPIM PM LS - iSPIM LEMOLISH - L-OpenSPIM LLS - LLSFM - LightShee - LSBM - LLSDM - LSF IFC MesoSPIM - miniSPIM muSPIM - MuVi-SPIM 15 PM - Muvi SPIM CS OpenSPIM Farm - Ope OPTISPIM - oSPIM - OTLS PLIF - pLSFM - PLST RLSM - SCAPE - sideSPIM SPIM selective - SPIN FCCS - SPIM-fluid - SPIM soSPIM - socSPIM MISERB STED-SPIM

LSFM - dispin - Dry -spin - dospin - DSLM - D The spin - dispin - Dry -spin - dospin - DSLM - D The spin - Dry -spin - dospin - DSLM - D The spin - DSLM - DSLM - D The spin - DSLM - DSLM - DSLM - D The spin - DSLM - DSLM

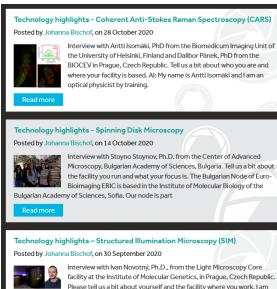
HILO - hLCCT - HLTP - HR SPIM - InVI-SPIM PM ISPIM - LEGOLISH Lattice SPIM - LCS-SPIM Z.1 - LightSheet 7 - LISH-M LSEM - LSLEM - LSP - LST MISERB - MLSM - mSPIM MuviSPIM LS - Muvi SPIN Juvi SPIM CS PM - OCPI Top SPIM - OPFOS - OPM πSPIM - PIP - PCLSM OuviSPIM - RESOLET SiMView - SLM-SPIM single - SPIM-FCS - SPIM PIV - soLSM - SOPI SPIDDM - SPOT - STED STSLIM - SVI-LEM - T

OpenSPIM - TC-LSFM - TILT3D - TLS-SPIM - TLSM - TSUM - TruLive3D - Ultramicroscope - BTLSM UltraMicroscope II - BTLSM - WAO-SPIM - X-OpenSPIM



By Elisabeth Kugler and Emmanuel Reynaud





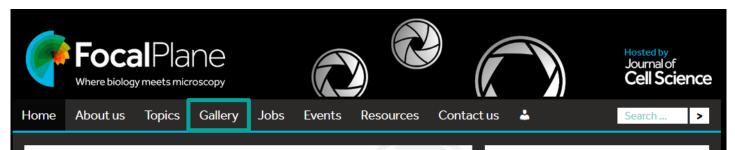
Interview with Ivan Novotrý, Ph.D., from the Light Microscopy Core infailty at the Institute of Molecular Genetics, In Prague, Czech Republic. Please tell us a bit about yourself and the facility where you work. I am employed as an Imaging specialist at the Light Microscopy Core facility at the Institute of Molecular Genetics of the Read more

By Johanna Bischof

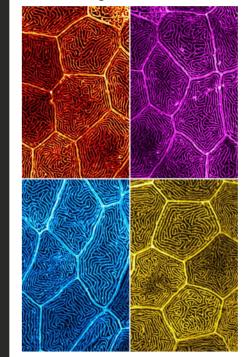
Create your own space on FocalPlane to post your blog series posts.



## FocalPlane content



#### Featured image



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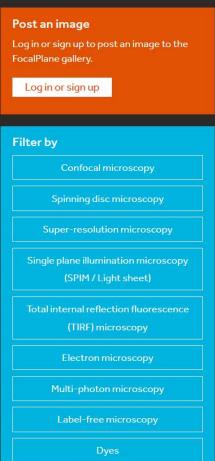
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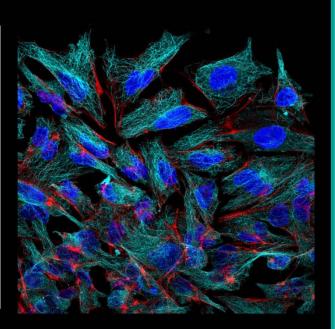


# **Recent gallery additions** 16 C 1 1



## The image A The author Y

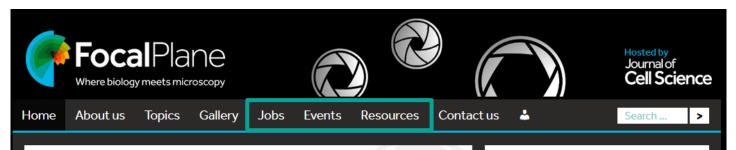
Sophie Morgani am a firstgeneration student from the West Midlands, UK. I obtained a Bachelor's degree in Biochemistry from the University of Manchester and, during this time, developed a keen interest in stem cell biology that I went on to pursue as a PhD at the Centre for Regenerative Medicine, University of Edinburgh. I am currently a joint post-doctoral fellow between the Cambridge Stem Cell Institute, UK and Memorial Sloan Kettering Cancer Center, New York, USA. I am a massive fan of early embryology and love acquiring beautiful images to communicate science to a wide audience.



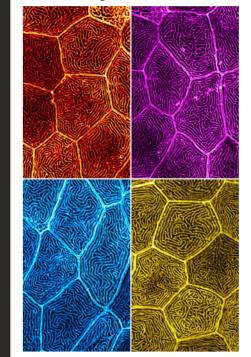
Pluripotent epiblast stem cells



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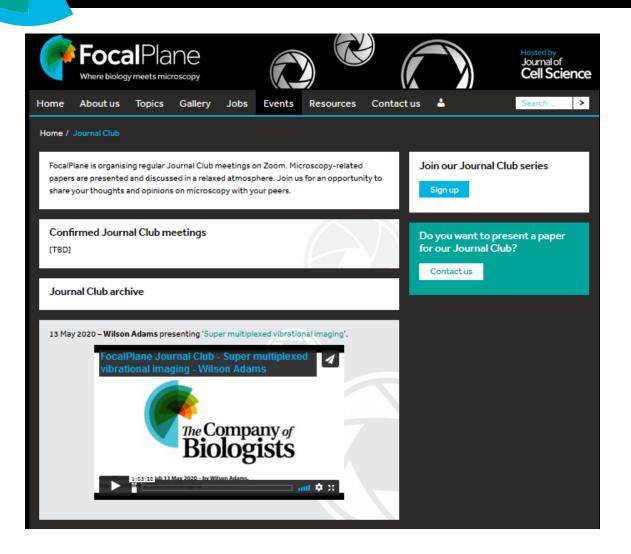
Scientific Advisory Board

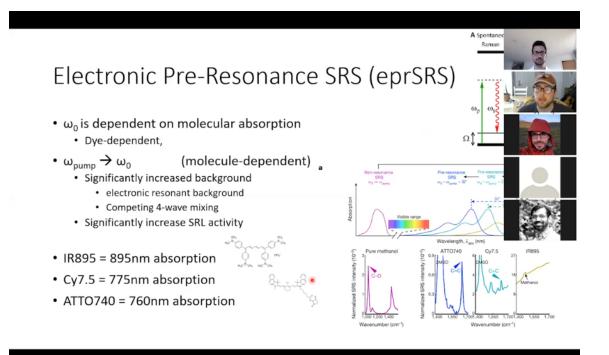
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## FocalPlane events - Journal Club

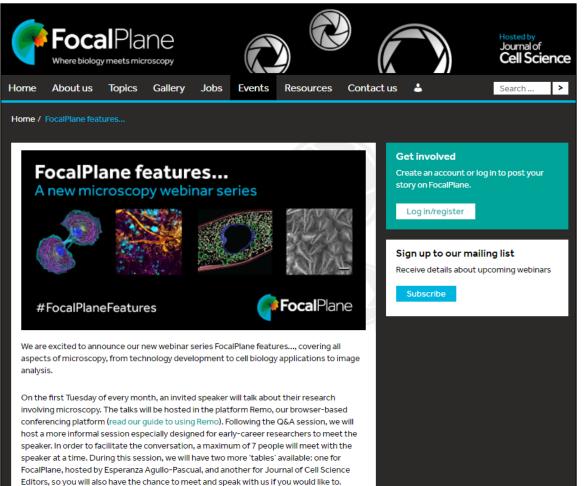




- 10 online journal club meetings since launch
- Currently accepting suggestions for papers and preprints to cover
- Contact me if you want to organise one



## FocalPlane events - Webinar series



Subscribe to our mailing list here to receive details about upcoming webinars as they are announced.

# Cooking under the hood of cells: from single molecule dynamics to whole cell organelle reconstructions where users

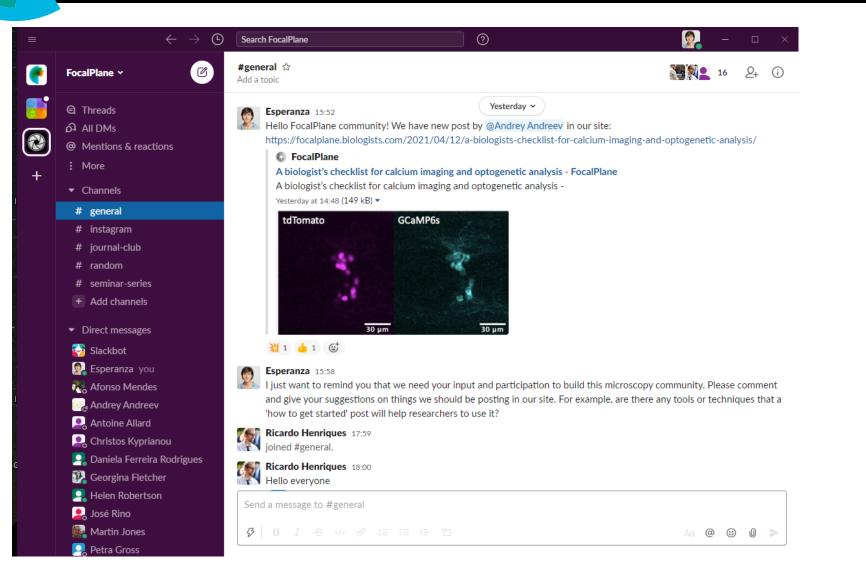
session aimed at ECRs

Webinar followed by meet-the-speaker





## **FocalPlane on Slack**



A place for discussing published or future posts, networking, and chatting about anything microscopy related.



Thank you!

# Get involved:

# focalplane.biologists.com

Twitter: @focalplane\_jcs Instagram: focalplane\_jcs



