

DRAFT

Advanced Optical Microscopy for Cell Biology Course**Wednesday 27th March 2019- Saturday 6th April 2019***The Marine Biological Association, The Laboratory, Citadel Hill, Plymouth, UK.*

2019

Date	Lecturer	Title
Wednesday 27th March	Student Registration at 18.00	Evening Mixer, Buffet and introductory talks. Start to put up posters
Thursday 28th March	Brad Amos amos.brad@gmail.com	3 introductory lectures: Overview of optical microscopy, ray and wave optics, polarization and interference
Friday 29th March	Martin Thomas m.thomas@cairn-research.co.uk Gail McConnell g.mcconnell@strath.ac.uk Klaus Suhling klaus.suhling@kcl.ac.uk	Light sources Lasers and nonlinear optics Detectors for imaging
Saturday 30th March	Maddy Parsons maddy.parsons@kcl.ac.uk Gerard Marriott g.m.phys@gmail.com Stefanie Reichelt sr411@cam.ac.uk	Working with living cells Fluorescence and fluorescent proteins Laser scanning confocal microscopy of live cells
Sunday 31st March		
Monday 1st April	Tony Campbell campbellak@cardiff.ac.uk Rainer Heintzmann rainer.heintzmann@uni-jena.de No lecture – practicals 2-6pm, poster session 6-8pm	Bioluminescence STED and super-resolution
Tuesday 2nd April	Nicola Lawrence njl@cam.ac.uk <i>No lecture – practicals 11-6pm</i> Susan Cox susan.cox@kcl.ac.uk	Experiences with an OMX system and structured illumination Statistical methods in super-resolution microscopy
Wednesday 3rd April	Noah Russell noah.russell@nottingham.ac.uk No lecture – practicals 11-6pm Sandrine Lévêque-Fort sandrine.leveque-fort@u-psud.fr	Surface plasmon resonance microscopy Localisation microscopy
Thursday 4th April	Paola Borri BorriP@cardiff.ac.uk <i>No lecture – practicals 11-6pm</i> Christian Eggeling christian.eggeling@rdm.ox.ac.uk	Label-free live cell imaging with coherent Raman scattering microscopy <i>Keynes Lecture:</i> STED microscopy and nano-immunology
Friday 5th April	Lucy Collinson lucy.collinson@crick.ac.uk No lecture – practicals 11-6pm Michelle Peckham m.peckham@leeds.ac.uk	Correlative Light and EM <i>RMS Lecture:</i> Using super-resolution to study the cytoskeleton
Saturday 6th April	John Dempster j.dempster@strath.ac.uk <i>Meeting close at 12noon</i>	Image processing and software