



Optics and Photonics Group
Lunchtime Seminar

**“Micromechanical
sensing inside and
outside cells”**

Dr Tania Mendonca

Optics and Photonics Group



13:30 Wednesday 23 November 2022
C24 Coates Building
All Welcome

http://optics.eee.nottingham.ac.uk/wiki/Seminars_2022-2023

Add to Calendar



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MS Teams link

I'll be talking about a couple of projects I have been involved in over the last few years combining 3D imaging with microrheology, including OptoRheo - our multifunctional instrument that integrates light sheet microscopy with optical trapping and multiplane imaging. We show that OptoRheo can record live cellular dynamics while at the same time monitoring changes in extra-cellular matrix viscoelasticity to help answer fundamental questions in cancer biology. More recently, I've been applying some of these microrheology approaches to study chromosome structure and organisation during cell division.