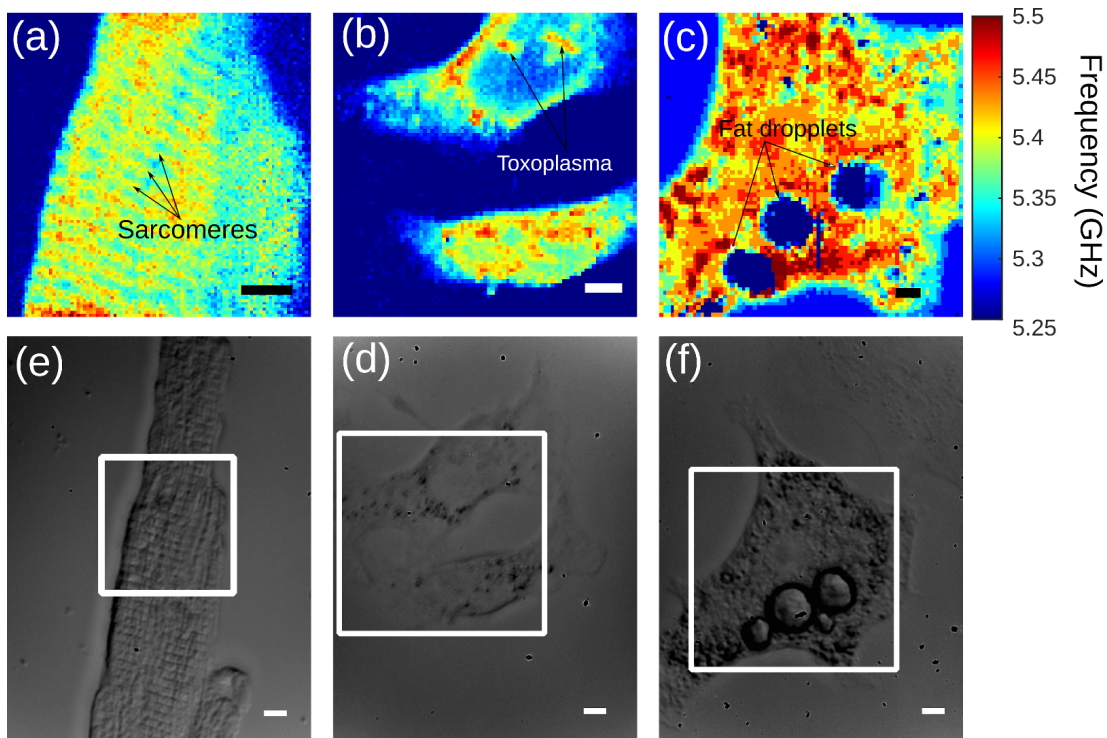




Optics and Photonics Group
Lunchtime Seminar

“Picosecond ultrasonics for
imaging and characterisation
of biological cells”

Fernando Perez-Cota



13:30 Wednesday 09 March 2022
C24 Coates building
All Welcome

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MS Teams link

Characterisation of the elasticity of biological cells is growing as a new way to gain insight into cell biology. Cell mechanics are related to most aspects of cellular behaviour, and applications in research and medicine are broad. From the methods available for the characterisation of elasticity, those relying on high frequency ultrasound (phonons) are the most promising because they offer label-free, high (even super-optical) resolution and compatibility with conventional optical microscopes. In this talk, the state of the art of picosecond ultrasonics for cell imaging and characterisation will be discussed as well as the challenges faced by the technology.