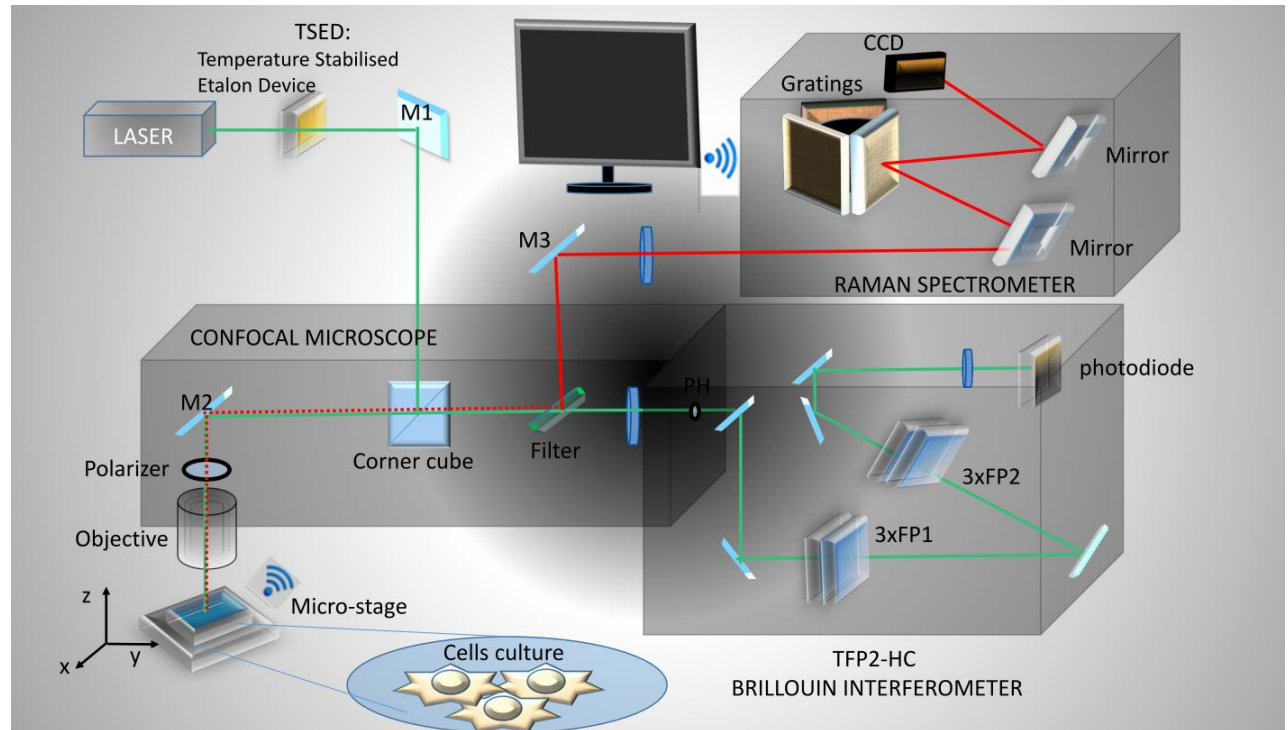
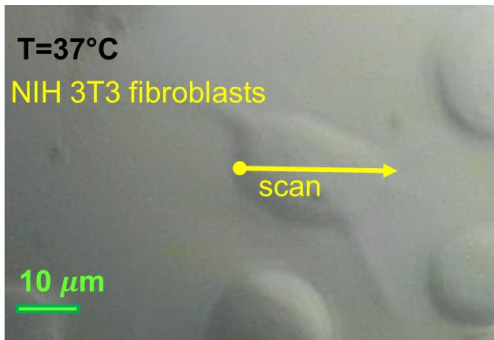
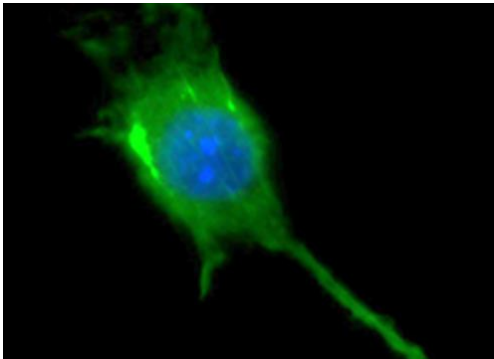


Non-contact mechanical and chemical
analysis of single living cells
investigated by micro-spectroscopic
techniques

Silvia Caponi
silvia.caponi@cnr.it
ITALY

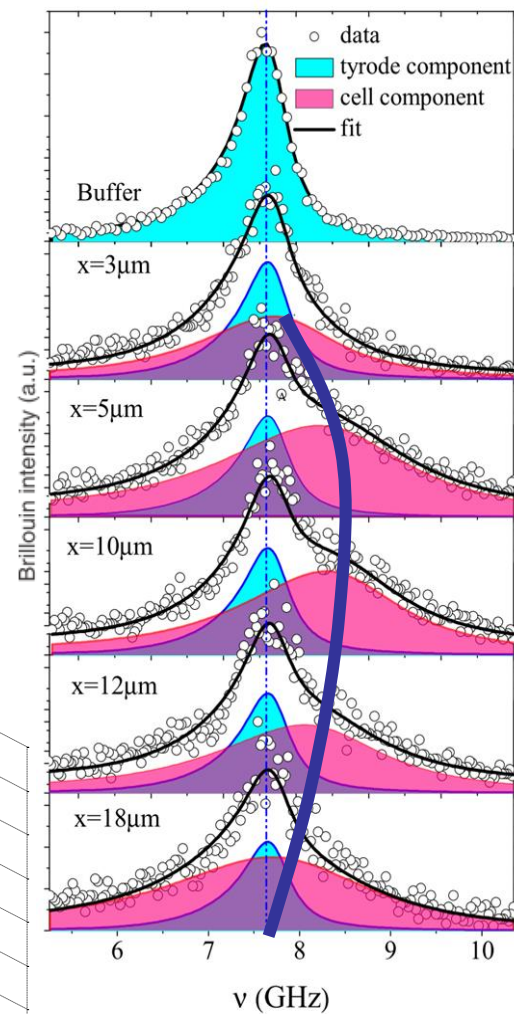
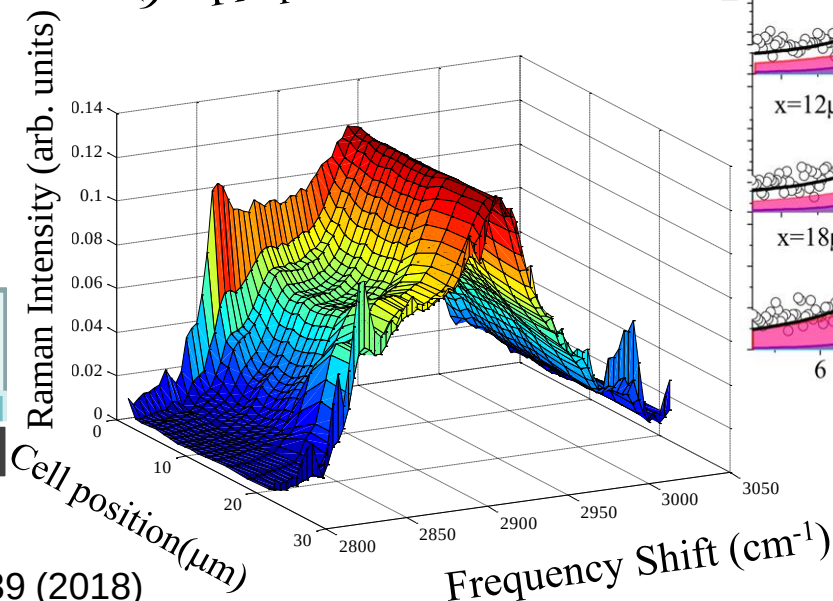
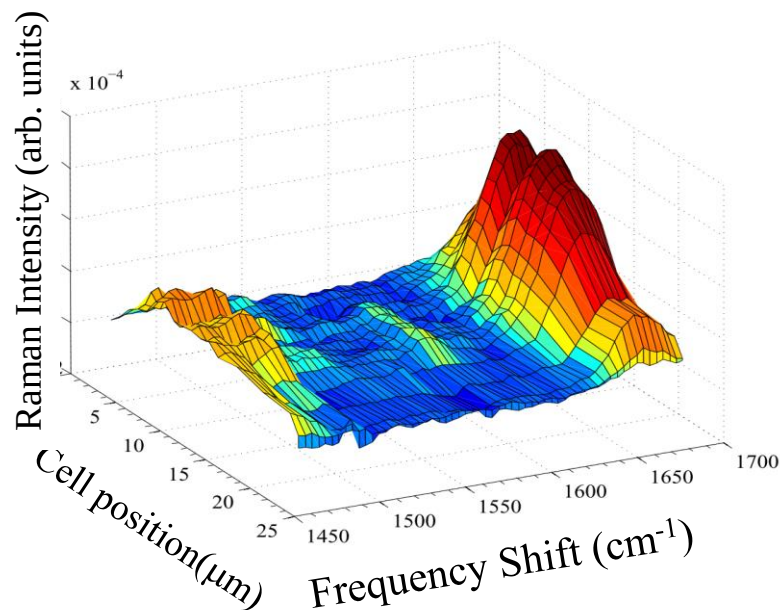
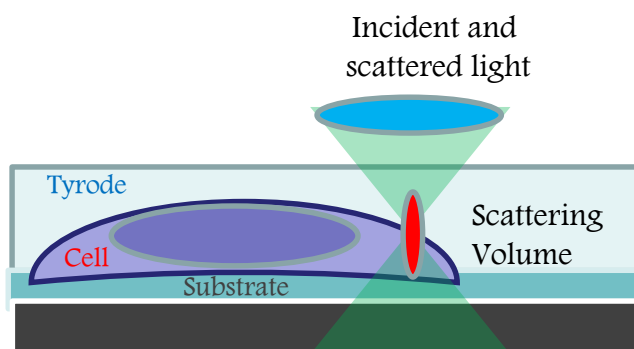
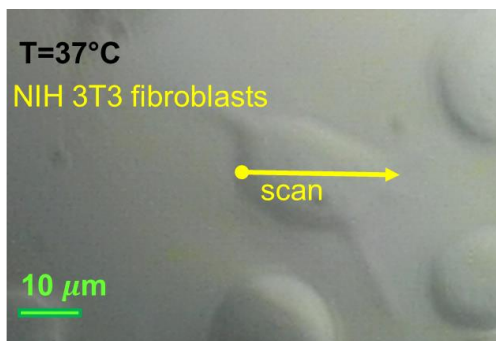
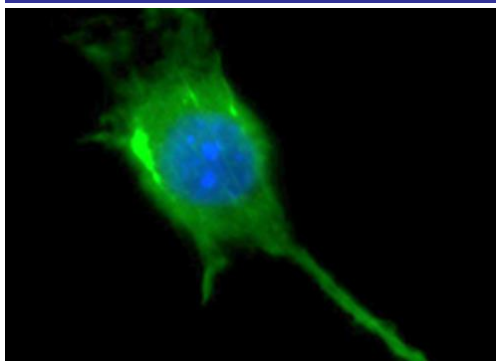
Non-contact mechanical and chemical analysis of single living cells by microspectroscopic techniques

Sara Mattana¹, Maurizio Mattarelli¹, Lorena Urbanelli², Krizia Sagini², Carla Emiliani^{2,3}, Mauro Dalla Serra⁴, Daniele Fioretto^{1,3} and Silvia Caponi⁵



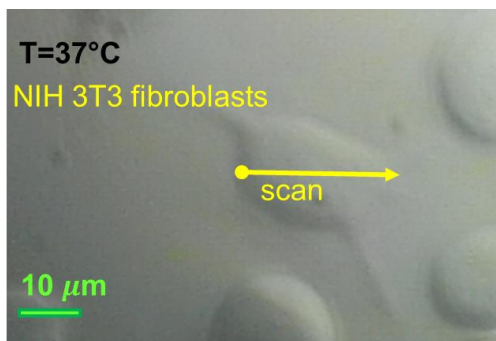
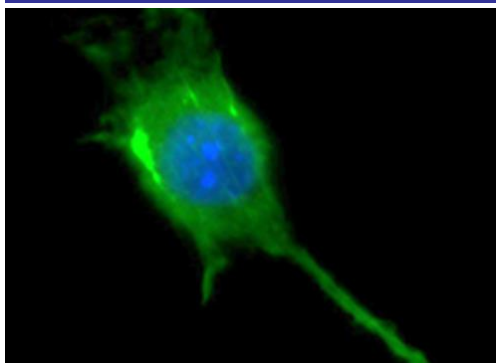
Non-contact mechanical and chemical analysis of single living cells by microspectroscopic techniques

Sara Mattana¹, Maurizio Mattarelli¹, Lorena Urbanelli², Krizia Sagini², Carla Emiliani^{2,3}, Mauro Dalla Serra⁴, Daniele Fioretto^{1,3} and Silvia Caponi⁵

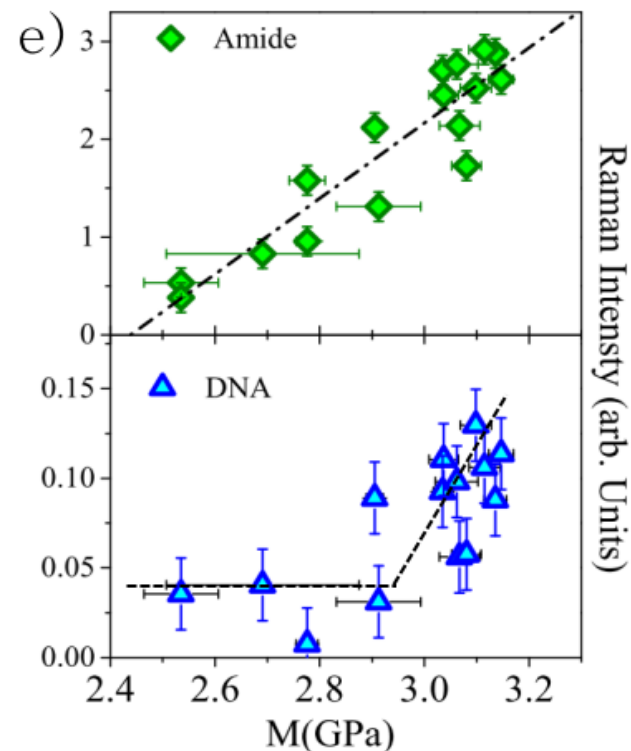
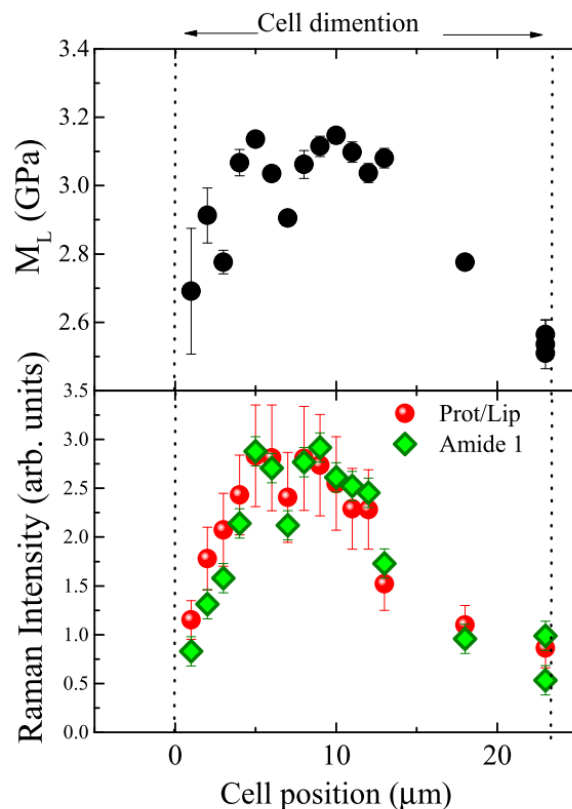
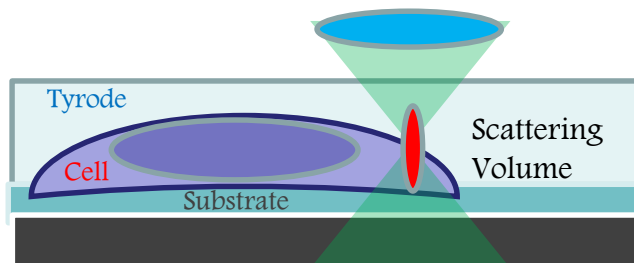


Non-contact mechanical and chemical analysis of single living cells by microspectroscopic techniques

Sara Mattana¹, Maurizio Mattarelli¹, Lorena Urbanelli², Krizia Sagini², Carla Emiliani^{2,3}, Mauro Dalla Serra⁴, Daniele Fioretto^{1,3} and Silvia Caponi⁵



Incident and
scattered light

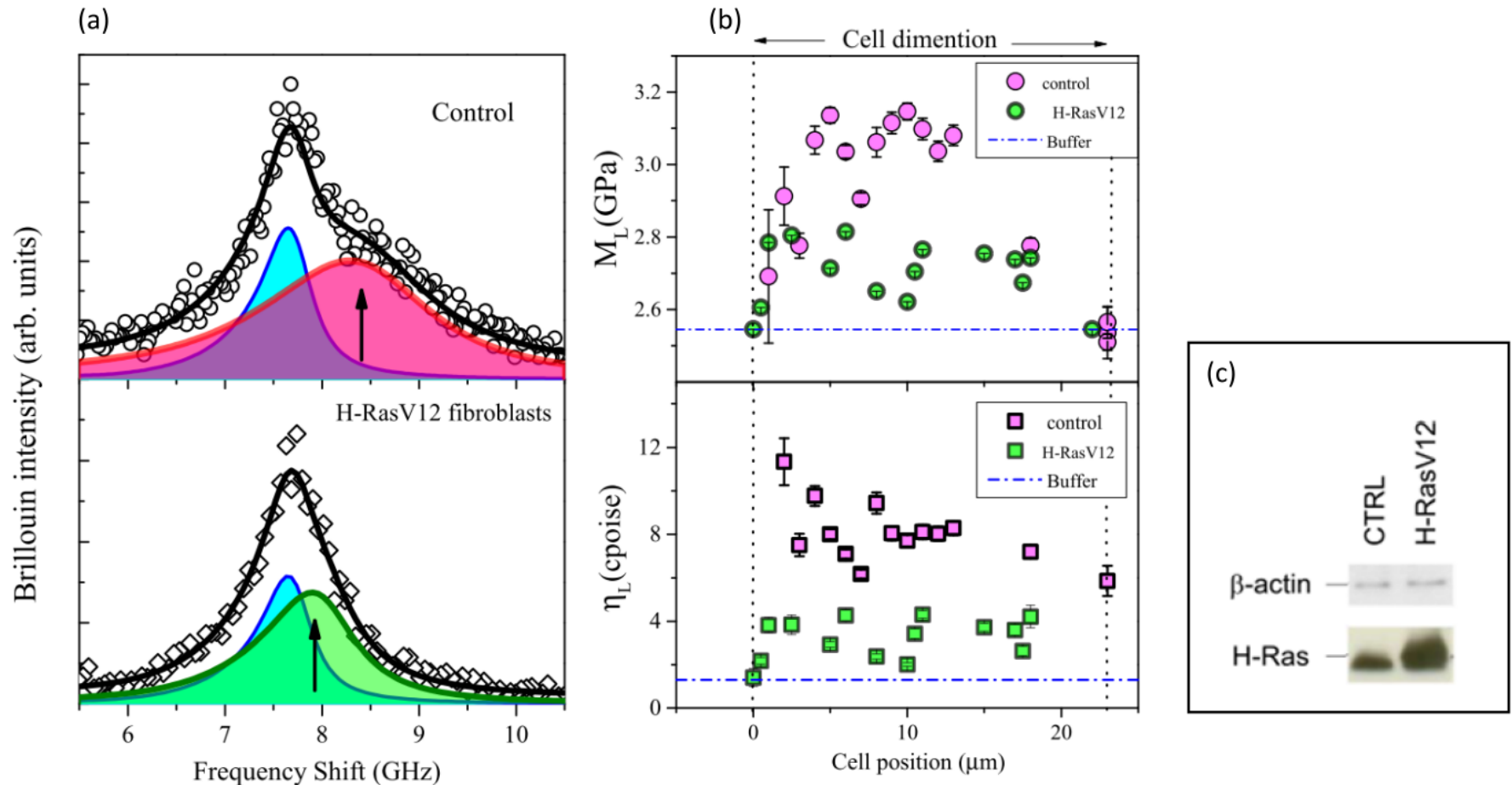


Non-contact mechanical and chemical analysis of single living cells by microspectroscopic techniques

Sara Mattana¹, Maurizio Mattarelli¹, Lorena Urbanelli², Krizia Sagini², Carla Emiliani^{2,3}, Mauro Dalla Serra⁴, Daniele Fioretto^{1,3} and Silvia Caponi⁵

Cells, after oncogene expression

Links between **biomechanics** and **human diseases**



Thanks to:



D. Fioretto



S. Mattana



M. Mattarelli



M. Dalla Serra



Università degli Studi di Perugia

DIPARTIMENTO DI FISICA E GEOLOGIA



C. Emiliani



L. Urbanelli



K. Sagini



DIPARTIMENTO DI CHIMICA, BIOLOGIA E BIOTECNOLOGIE
UNIVERSITÀ DEGLI STUDI DI PERUGIA

PRIN2012



XXIII INTERNATIONAL SCHOOL OF PURE AND APPLIED

Emerging Tools in Biomechanics: from tissues down to single molecules

1st or 2nd week of February 2019

DIRECTORS OF THE SCHOOLS:

Silvia CAPONI - CNR Perugia (Italy)
Mauro DALLA SERRA - CNR Trento (Italy)
Massimo VASSALLI - CNR Genoa (Italy)
Giorgio GIACOMETTI - IVSLA and Uni. Padua (Italy)



Palazzo Franchetti-Venice (Italy),