

NANO KOREA 2020

July 1~3, KINTEX, Korea

Francesco Simone Ruggeri

Junior Research Fellow, University of Cambridge, UK

Address: Department of Chemistry, CB21EW, Cambridge, UK

Telephone: (+44)07490387794

Fax: na

E-mail: fsr26@cam.ac.uk

Nationality: Italian

Web: www.linkedin.com/in/fsr

EDUCATION

EPFL, Switzerland	Ph.D	Biophysics	2015
University of Catania, Italy	MS	Physics & Materials Science	2010
University of Catania, Italy	BS	Physics	2004

PROFESSIONAL ACTIVITIES

- Junior Research Fellow, Department of Chemistry & Darwin College, University of Cambridge, UK, August 2015 to present

AWARD AND HONORS

- 2018: Bio-AFM travel and accommodation award, Nano Life Science Institute, Kanazawa University, Japan.
- 2015: Candidate for the EPFL “Best Doctorate Awards” (best 5-10% students).
- 2014: Best Poster Presentation Award by the Swiss Physical Society.
- 2004-2010: Excellence Scholarships for the Master’s and Bachelor’s Degrees awarded by the University of Catania.

MAIN SCIENTIFIC PUBLICATION

- **Ruggeri F.S.** et al., *Microfluidic deposition for resolving single molecule protein architecture and heterogeneity*. **Nature Communications**, 2018.
- **Ruggeri F.S.#** et al., *Identification and nanomechanical characterization of the fundamental single-strand protofilaments of amyloid α -synuclein fibrils*. **PNAS**, 2018.
- Ramer G.*, **Ruggeri F.S.*** et al., *Determination of polypeptide conformation in water with nanoscale infrared spectroscopy*. **ACSnano**, 2018.
- Qamar S.*, Wang G.*, Randle S.*, **Ruggeri F.S.*** et al., *FUS Phase Separation Is Modulated by a Molecular Chaperone and Methylation of Arginine Cation- π Interactions*. **Cell**, 2018.
- **Ruggeri F.S.**, *Infrared Nanospectroscopy characterization of oligomeric and fibrillar aggregates during amyloid formation*. **Nature Communications**, 2015.
- **Ruggeri F.S.** et al., *Influence of the β -Sheet Content on the Mechanical Properties of Aggregates during Amyloid Fibrillization*. **Angewandte Chemie**, 2015.

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RESEARCH INTERESTS

- Microscopy
- Atomic Force Microscopy
- Vibrational Spectroscopy
- Infrared Spectroscopy
- Nanoscale Chemical Imaging
- Biomolecular Processes
- Protein Aggregation
- Biomaterials
- Neuronal regeneration
- Neurodegeneration