

Francesco Fontana

Chemical Engineer

PUBLICATIONS

Journal

- Fontana F., Iberite F., Cafarelli A., Aliperta A., Baldi G., Gabusi E., Dolzani P., Cristino S., Lisignoli G., Pratellesi T., Dumont E., Ricotti L. "Development and Validation of Low-Intensity Pulsed Ultrasound System for Highly Controlled in vitro Cell Stimulation" Ultrasonics, accepted for publication: 2 June 2021. (I. F. = 3.065)

Conference

Iacoponi F., Fontana F., Catalano E., Manferdini C., Trucco D., Cafarelli A., Lisignoli G., Ricotti L. "Dose-Controlled Low-Intensity Pulsed Ultrasound to modulate Inflammatory Response", 6th World Congress of the Tissue Engineering and Regenerative Medicine International Society (TERMIS 2021), 15-19 November 2021, Maastricht, The Netherlands (Oral presentation)

Iacoponi F., Iberite F., Fontana F., Ricotti L. "Biological evaluation of highly controlled low-intensity pulsed ultrasound stimulation set-ups", International Journal of Artificial Organs (IJAO), July 2020 issue, 47th European Society of Artificial Organs Congress, 7-11 September 2021, London, UK (Oral presentation).

Fontana F., Iberite F., Morchi L., Pratellesi T., Cafarelli A., and Ricotti L. "Highly controlled and usable system for Low-Intensity Pulsed Ultrasound Stimulation of cells", 40th International Conference of the IEEE Engineering in Medicine and Biology Society, 23-27 July 2019, Berlin, Germany (Oral presentation).

PATENTS

- Fontana F., Ricotti L., Cafarelli A., Pratellesi T., "Cell Culture Support for Controlled Ultrasonic Stimulation" International Patent WO 2021/014331 A1, issued 28 January 2021.

EDUCATION



PhD in BioRobotics (2018 - Present)

Sant'Anna School of Advanced Studies, Pisa (Italy)

Research activity: "Low intensity ultrasound – electromagnetic combined stimulation for treating neuropathies"



Master's Degree in Chemical Engineering

"Innovative Processes and Nanotechnologies" career (2017)

University of Salerno, Salerno (Italy)

Grade: 110/110 cum laude

Thesis: "Configuration of a CO₂ assisted electrospinning plant"

Skills acquired in:

- Material Engineering
- Nanotechnologies
- Industrial Chemistry
- Plant-Engineering and Reactors
- Transport Phenomena
- Thermodynamics



Bachelor's degree in Chemical Engineering (2014)

University of Salerno, Salerno (Italy)

Grade: 110/110 cum laude

Thesis: "Production and characterization of biocompatible Fibroin/Alginate aerogels"