

CURRICULUM VITAE DR. MICHELE CIULLA

Dr. Michele Ciulla graduated in Pharmaceutical Chemistry and Technology at the University of Catania in 2013. In the same year he became licensed as pharmacist. In January 2014 he started his PhD supervised by Prof. Dr. Antonio Di Stefano. In April 2017 he obtained the PhD in Biomolecular and Pharmaceutical Sciences, with the additional title of *Doctor Europaeus* and, since May 2017, he started his postdoctoral training in the design, synthesis and vehiculation of new biologically active compounds. Moreover, in 2018 he started to work in the field of pharmaco-economic and health technology assessment. He is currently researcher (RTD-A PON AIM) on Organic Chemistry (sector 03/C1) at the Department of Pharmacy, “G. d’Annunzio” University of Chieti – Pescara. Regarding the didactics, at the same Department, from the academic year 2019-2020 he obtained a teaching position for the advanced course of Nuclear Magnetic Resonance with laboratory. During his PhD and the following period, he has been involved in seminars and tutoring activities as well as being a member of the examination committee regarding Pharmaceutical Technology, Drug Analysis and Organic Chemistry. From January 2015 to March 2016, he worked as visiting PhD at the Utrecht Institute for Pharmaceutical Sciences supervised by Prof. Dr. Ir. W.E. Hennink.

In 2022, for six months he was Visiting Researcher in the research group of Prof. Bertrand Chazallon at PhLAM, Laboratoire de Physique des Lasers, Atomes et Molécules, University of Lille, France. During this period he specialized in Raman spectroscopic techniques. The research interest of Michele Ciulla is focused on the development and testing of new low concentration hydrate clathrate inhibitors for Flow Assurance in natural gas plants, the study of promoters of hydrated clathrates for the transport and storage of methane, the development of methods for the capture and the separation of CO₂. His research activity is well documented by many papers published in peer-reviewed international scientific journals.

SELECTED PAPERS:

1. Ciulla, M., Canale, V., Wolicki, R.D., Ferrone, V., Carlucci, G., Fontana, A., Siani, A., D’Alessandro, N., Di Profio P. Comparison of extraction methods for active biomolecules using sub-critical dimethyl ether and n-butane. *Eur Food Res Technol*, 2022.
2. Marinelli, L., Ciulla, M., Ritsema, J.A.S., van Nostrum, C.F., Cacciatore, I., Dimmito, M.P., Palmerio F., Orlando, G., Robuffo, I., Grande, R., Puca, V., Di Stefano A. Preparation, Characterization, and Biological Evaluation of a Hydrophilic Peptide Loaded on PEG-PLGA Nanoparticles. *Pharmaceutics* 2022, 14, 1821.
3. Di Profio, P., Canale, V., Ciulla, M., Fontana, A., Madia, L., Zampato, M., Carminati, S.

- Terahertz Irradiation of Liquid Water Inhibits Methane Hydrate Formation (2022) *ACS Sustainable Chemistry and Engineering*, 10 (14), pp. 4780-4787.
4. Ben Khalifa, R., Cacciatore, I., Dimmito, M.P., Ciulla, M., Grande, R., Puca, V., Robuffo, I., De Laurenzi, V., Chekir-Ghedira, L., Di Stefano, A., Marinelli, L. Multiple lipid nanoparticles as antimicrobial drug delivery systems (2022) *Journal of Drug Delivery Science and Technology*, 67, art. no. 102887.
 5. Costamagna, M., Micheli, E., Canale, V., Ciulla, M., Siani, G., di Profio, P., Tiecco, M., Ciancaleoni, G. Low-cost temperature transition mixtures (TTM) based on ethylene glycol/potassium hydroxide as reversible CO₂ sorbents (2021) *Journal of Molecular Liquids*, 340, art. no. 117180
 6. Siani, G., Tiecco, M., Di Profio, P., Guernelli, S., Fontana, A., Ciulla, M., Canale, V. Physical absorption of CO₂ in betaine/carboxylic acid-based Natural Deep Eutectic Solvents (2020) *Journal of Molecular Liquids*, 315, art. no. 113708.
 7. Fiorito, S., Genovese, S., Palumbo, L., Scotti, L., Ciulla, M., di Profio, P., Epifano, F. Umbelliprenin as a novel component of the phytochemical pool from *Artemisia* spp (2020) *Journal of Pharmaceutical and Biomedical Analysis*, 184, art. no. 113205.
 8. Pagoni, A., Marinelli, L., Di Stefano, A., Ciulla, M., et al. Novel anti-Alzheimer phenol-lipoyl hybrids: Synthesis, physico-chemical characterization, and biological evaluation (2020) *European Journal of Medicinal Chemistry*, 186, art. no. 111880.
 9. Ciulla, M., Marinelli, L., Cacciatore, I., Di Stefano, A. Role of Dietary Supplements in the Management of Parkinson's Disease (2019) *Biomolecules*, 9, Article n.: 271.
 10. Di Stefano, A., Marinelli, L., Eusepi, P., Ciulla, M., Fulle, S., Di Filippo, E. S., Magliulo, L., Di Biase, G., Cacciatore, I. Synthesis and Biological Evaluation of Novel Selenyl and Sulfur-L-Dopa Derivatives as Potential Anti-Parkinson's Disease Agents (2019) *Biomolecules*, 9, Article n.: 239.
 11. Marinelli, L., Fornasari, E., Eusepi, P., Ciulla, M., et al. Carvacrol Prodrugs as Novel Antimicrobial Agents (2019) *European Journal of Medicinal Chemistry*, 178, pp. 515-529. DOI: 10.1016/j.ejmech.2019.05.093.
 12. Bernabò, N., Machado-Simoes, J., Valbonetti, L., Ramal-Sanchez, M., Capacchietti, G., Fontana, A., Zappacosta, R., Palestini, P., Botto, L., Marchisio, M., Lanuti, P., Ciulla, M., Di Stefano, A., Fioroni, E., Spina M., Barboni B. Graphene Oxide increases mammalian spermatozoa fertilizing ability by extracting cholesterol from their membranes and promoting capacitation (2019) *Scientific Reports*, 9, Article n.: 8155.