

Simone Zaghen

Curriculum vitae

Contact Details

Born in Manerbio (BS), Italy, 05/05/1996
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Instruction

Date October 2018 - July 2020
Institute University of Milano Bicocca – INDUSTRIAL BIOTECHNOLOGY
Qualification Master's degree – 110/110 cum laude
Thesis Engineering xylose metabolism in *Yarrowia lipolytica* and assessing its tolerance to inhibitors commonly found in hydrolysates

Date October 2015 - July 2018
Institute University of Brescia – BIOTECHNOLOGY
Qualification Bachelor's degree – 110/110 cum laude
Thesis Manipulation and Analysis of Extracellular Vesicles by Lateral Flow Chromatography

Date September 2010 - July 2015
Institute Liceo scientifico Grazio Cossali, Orzinuovi (BS), Italy.
Qualification Secondary school diploma

Work experience

Date October 2019 – July 2020
Institute Chalmers University of Technology, Department of Biological and Biology Engineering, Division of Systems and Synthetic Biology.

Object The overall goal of the project was to engineer the oleaginous yeast *Yarrowia lipolytica* for the production of oils, with a defined fatty acid composition, using hydrolysate of wood or agricultural waste. The main techniques that were used are CRISPR-Cas9 to introduce genetic modification, HPLC to assess sugar consumption and metabolite production, and FAME extraction followed by GC-MS to determine the fatty acid profile of the strains.

Date February 2018

Institute Liceo scientifico Grazio Cossali, Orzinuovi (BS), Italy

Object Lecturer of a short course about genome sequencing, considering data production and ethical problems of it.

Date October 2017 – July 2018

Institute Professor Paolo Bergese's "Colloidal Clinical Chemistry Laboratory", Department of Molecular and Translational Medicine, University of Brescia

Object Practical experience about cell culture, differential centrifugation, protein analysis by SDS-PAGE, atomic force microscopy, synthesis, characterization and functionalization of gold nanoparticles, lateral flow chromatography.