



**Alex
Pessina**

DATE OF BIRTH:
09/09/1994

CONTACT

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WORK EXPERIENCE

01/11/2019 – CURRENT – Milano, Italy

PHD Student in Converging Technologies for Biomolecular Systems (TeCSBi)

University of Milano-Bicocca

"Glutamate as a potential substrate for trehalose production in yeast"

Inside reference:

- Dott. Luca Brambilla (luca.brambilla@unimib.it)

Piazza della Scienza, ed. U4, lab. 4049, 20126 Milano, Italy

05/2020 – 06/2020 – milano, Italy

Adjunct Professor for industrial microbiology laboratories (professore a contratto)

University of Milano-Bicocca

Industrial Microbiology Laboratory - 3 CFU

Announcement number:ADPR-19-286

Experience in industrial microbiology and molecular biology of yeast and microorganisms of industrial interest and microbiological laboratory experiences.

- Aseptic technique
- Preparation of growth media and cultivation of yeasts and microorganisms in flask and bioreactor.
- Microbial production and purification of recombinant protein
- Enzymatic colorimetric assay
- Online lessons
- Exercises preparation

11/2019 – 12/2019 – Milan, Italy

Adjunct Professor: esempi di sviluppo e analisi di bioprocessi

University of Milano Bicocca

Industrial Microbiology Laboratory- 1 CFU

Announcement number: ADPR-19-098

15/10/2017 – 31/10/2019

Research activities

University of Milano-Bicocca

Dynamics of trehalose mobilization in yeast and their modulation by glutamate

Technical capabilities acquired:

- Handling microbiological culture: setup culture medium, research the best growth conditions, monitoring and growth with bioreactor/shaking flasks, working under laminar flow hoods for sterility.
- Analytical chemistry: spectrophotometer, knowledge of HPLC and basis for Flow Cytometry (FACS).
- Biochemistry techniques: enzymatic activity assay, colorimetric assay, bradford assay.
- Data analysis using Microsoft Excel and word
- Data presentation using Microsoft PowerPoint.

- Tutoring undergrad students.

Laboratory activity

- Bioreactor growth
- enzymatic activity assay for yeast
- HPLC analysis for quantification
- FACS analysis

Inside reference:

- Dott. Luca Brambilla (luca.brambilla@unimib.it)

Piazza della Scienza, ed. U4, lab. 4049, 20126, Milano, Italy

05/2019 – 06/2019

Adjunct Professor for industrial microbiology laboratories (professore a contratto)

University of Milano-Bicocca

Industrial Microbiology Laboratory - 6 CFU

Announcement number: ADPR-18-264

Experience in industrial microbiology and molecular biology of yeast and microorganisms of industrial interest and microbiological laboratory experiences such as:

- Aseptic technique
- Preparation of growth media and cultivation of yeasts and microorganisms in flask and bioreactor.
- Microbial production and purification of recombinant protein
- Enzymatic colorimetric assay
- Analysis of metabolite by HPLC

Milano, Italy

02/2019 – 03/2019

Tutoring activity: technical and scientific activity in laboratories.

University of Milano-Bicocca

Work assignment on the project: Scientific Degrees Plan-Laboratories for teaching of basic sciences: Industrial Microbiology Laboratory.

Announcement number: 19CE028

Experience in industrial microbiology and molecular biology of yeast and microorganisms of industrial interest and microbiological laboratory experiences such as:

- Aseptic technique
- Preparation of growth media and cultivation of yeasts and microorganisms in flask and bioreactor.
- Enzymatic colorimetric assay

Piazza della scienza, Milano, Italy

04/03/2017 – CURRENT

Sales agent (Garden department) - Part time weekend job

LEROY MERLIN ITALIA S.R.L.

- Give information about the features, quality and availability of different products.
- Irrigation design consultancy
- Ordering supplies

www.leroymerlin.it / Via Galilei 9a - 9b, 20040, agrate, Italy

01/09/2016 – 31/10/2016

Trainees in a molecular biology laboratory

University of Milano-Bicocca

Evaluation of the growth kinetics of human chondrocytes on different collagen sheets

techniques and assay:

- Human cells culture methods by working in absolute sterile ambient.
- Flow cytometry
- confocal microscopy
- western blotting analysis

Professional, scientific and technical activities / Piazza della Scienza, ed. U4, 21052, milano, Italy

COMMUNICATION AND INTERPERSONAL SKILLS

Poster presentation at BtbS day 2019-2020

Biotechnology and Bioscience Department - University of Milano-Bicocca

A. Pessina, M. Gnugnoli, M. Vanoni, L. Brambilla.

"Modulation of growth condition and trehalose metabolism in *Saccharomyces cerevisiae*"

A. Pessina, Vanoni, L.G. Brambilla.

"The rediscovery of trehalose production by *Saccharomyces cerevisiae*"

EDUCATION AND TRAINING

10/2016 – 02/2019 – Milano, Italy

Master's degree in Industrial Biotechnology

University of Milano-Bicocca

Thesis title: **Dynamics of mobilization of trehalose in yeast and their modulation by glutamate**

Evaluation: full marks with honors (110 cum laude) | EQF level 7 | <https://www.unimib.it/ugov/degree/4084>

10/2013 – 11/2016 – Milano, Italy

Bachelor's degree in Biotechnology

University of Milano-Bicocca

101/110 | EQF level 6 | www.unimib.it

09/2007 – 03/07/2013 – Mariano comense, Italy

High School Diploma

Liceo Scientifico Tecnologico Magistri cumacini

EQF level 5

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

OTHER LANGUAGE(S):

English

Listening
B1

Reading
B1

**Spoken
production**
B1

**Spoken
interaction**
B1

Writing
B1

ORGANISATIONAL SKILLS



Organisational skills

- Problem solving and communication with team mates are the main focus for the best working progress.
- Capabilities for making constructive opinions.
- Strong focus on scheduling the work and self confidence.
- Not afraid of long hours/night shifts work.

CERTIFICATIONS



ECDL Core level



Forklift licence