



Alessandro Scardua

ABOUT ME

Industrial biotechnologist, specialized in **fermentation processes**, currently **manager of the Biomass Production & Lab Kitchen units** at Human Technopole.

Many years of experience in the field of **bioprocess development**, ranging from **lab to pilot scales** and from **Yeast/Bacteria to Human and Insect cells**.

Experience with different **international companies and institutions**, and currently in the prestigious research center of Human Technopole.

KEY SKILLS

- Development and optimization of **fermentative processes**;
- **Setup and optimization** of bioprocess workflows both at **lab** and **pilot scale**;
- Extensive experience in **acquisition and setup** of various **bioprocess equipment** (e.g. from Sartorius, Infors-HT, Applikon, DASGIP-Eppendorf and Bioengineering systems);
- **Data analysis and modeling**;
- **Project management**;
- **Managing of teams**;
- Full professional proficiency in **English**.

WORK EXPERIENCE

BIOMASS PRODUCTION & LAB KITCHEN SENIOR MANAGER

Human Technopole, Milan, Italy

April 2021– Present

- **Manager of the Biomass Production Unit**, a service unit that produces bacterial, yeast, insect, and mammalian cell cultures;
- **Manager of the Lab Kitchen Unit**, aimed to the media preparation, washing and sterilization within the company;
- Responsible for the **acquisition and setup of new lab and pilot equipment**;

SENIOR RESEARCH ASSOCIATE

Givaudan Schweiz AG, Kempthal, Switzerland

September 2019– March 2021

- Development and optimisation of **fermentation processes** for enzymes production;
- Characterisation and optimisation of **biocatalytic process** conditions (for fragrance ingredients production);
- **Data analyses** and data **modelling**;
- Processes optimisation by design of experiments (**DoE**);
- **Project manager**.

RESEARCHER

Novamont S.p.A., Novara, Italy

July 2015 – August 2019

- Development and optimisation of **fermentation processes** for the production of bulk chemicals (bioplastics ingredients);
- **Scale-up** and **technology transfer** of fermentation processes;
- **Enzymatic processing** of biomass;
- **Genetic modification** of unconventional yeasts;
- **Project manager**.

RESEARCHER WITH PON ENERBIOCHEM FELLOWSHIP

Novamont S.p.A., Novara, Italy

Industrial Yeasts Collection DBVPG, University of Perugia, Perugia, Italy

January 2013 – June 2015

- Development of **bioprocesses** for the production of **lipids from yeast**;
- Optimisation of extractive processes for the **recovery** of cellular products;
- **Characterisation** of fermentation products.

EDUCATION

UNIVERSITY OF MILANO BICOCCA, *October 2007 – November 2012*

Master degree in Industrial Biotechnology

(final mark: 110/110 with honor)

Bachelor Degree in Biotechnology

(final mark: 110/110 with honor)

GEMA BUSINESS SCHOOL, *June 2016*

Project Management course

BSDL INSTITUTE - DELFT UNIVERSITY, *April 2016*

Advanced course in Bioprocess Design

UNIVERSITY OF MODENA E REGGIO EMILIA, *October 2014*

School of Chemometric Methods for Process Monitoring

UNIVERSITY OF INSUBRIA, *July 2014*

Experimental design course and introduction to multivariate analysis

IMPACT INTERNATIONAL, *March 2013*

Leadership and management course