Curriculum vitae

AL MAGNIFICO RETTORE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO **COD. ID: 5821**

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il Dipartimento di Bioscienze
Responsabile scientifico: **Prof.ssa Graziella Cappelletti**

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Cognome	Nicolaci
Nome	Vincenzo

ISTRUZIONE E FORMAZIONE

Titolo	**Corso di studi**	**Università**	**anno conseguimento titolo**
Laurea Magistrale o equivalente	**Biotecnologie Industriali**	Università degli Studi di Milano - Bicocca	2018
Master	**Secondo Livello: Process Chemistry applied to active pharmaceutical Ingredients**	Università degli Studi di Milano - Statale	2021
Laurea triennale	**Tossicologia Dell'Ambiente**	Università della Calabria-Unical	2015
Esame di Stato	**Abilitazione Alla Professione di Biologo - Sez. A**	Università Degli Studi di Pavia - UniPv	2019

ISCRIZIONE AD ORDINI PROFESSIONALI

Data iscrizione	**Ordine**	**Città**

LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
Inglese	B-2

PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
2022	Vincitore di un assegno di ricerca presso il Consiglio Nazionale delle Ricerche – Istituto di Biologia e Biotecnologie Agrarie (CNR-IBBA)

ATTIVITÀ DI FORMAZIONE O DI RICERCA

descrizione dell'attività:

May 2022- May2023
NATIONAL COUNCIL RESEARCH OF ITALY
CNR-IBBA
Research Fellow
-Plant Biotechnology applied to the project "ARGENTO" (https://site.unibo.it/progetto-argento/en)
-*In vitro* cultures of vegetable cells and tissues

November 2021–February 2022
MC-BIOTECH SRL
Biologist
-Analysis of biological samples

April 2021–August 2021
INDENA SPA
Industrial Biotechnologist
-Active pharmaceutical ingredients production through bioreactor fermentation processes /Research and Development

October 2020–March 2021
UNIVERSITY OF MILAN-UNIMI
Trainee Researcher
-Synthesis and characterization of organic compounds

September 2017–July 2018
UNIVERSITY OF MILAN BICOCCA-UNIMIB
Trainee Researcher
-Production and characterization of recombinant proteins using Molecular Biology techniques

January 2017–July 2017
DANISH CANCER SOCIETY-UICC(DK)
TraineeResearcher

-Proteins structural and functional analysis through Computational Biology and Molecular Dynamic techniques (Gromacs;PyMol)

March 2014–July 2014
NATIONAL COUNCIL RESEARCH OF ITALY CNR-ITM
Trainee Researcher
Extraction and purification of pharmaceutical compounds from food industry waste materials using membranes

PROFESSIONAL SKILLS
MolecularBiology:
vectors and primers design;
PCR;
Gene Editing;
in vitro tissue and cell cultures;
Plant Biotechnology;
Production of active pharmaceutical ingredients using bioreactors;
Agarose gel electrophoresis;
SDS-PAGE;
WesternBlot;
Protein purification;
Chromatographic techniques;
in vitro enzymatic assays.

Biochemistry and Chemistry:
organic chemistry synthetic
analytic techniques applied to biotechnology.

Informatics: OfficeSuite(Word,Excel;PowerPoint etc.);

Softskills: good organizational skills; good time management.

Over the years i have worked as a researcher and biotechnologist, both in academic and private contexts, where i have dealt with topics that mainly concern biology and chemistry.
in 2015 i obtained my Bachelor's Degree in Environmental Toxicology, a degree path that includes aspects of biology, chemistry and pharmaceutical chemistry. I have always had a strong interest in all aspects of toxicology, both from a chemical-pharmaceutical point of view and from an environmental point of view. Interest that i cultivated during my studies, which ended with a thesis on ex-situ bioremediation processes for the removal of hydrocarbons from contaminated soil.

in 2018 i obtained the master's degree in industrial biotechnology at the University of Milano Bicocca.
I carried out part of my master thesis at the Danish Cancer Society Research Center in Copenhagen, where i investigated the aspects of some mutations affecting the p53

protein through the use of computational biology and molecular dynamics.
The findings were recently published in an article in the journal of molecular biology. I conducted the second part of my master thesis in the molecular biology laboratories of the University of Milan Bicocca.
During this period i tried to produce the p53 protein mutants studied in Denmark, using plasmid vectors in E.coli.
In Milano Bicocca labs i had the opportunity to learn various molecular biology techniques such as vectors and primers design, PCR technique, in vitro cell coltures, agarose gel electrphoresis, sds-page and western blot, protein quantification and purification.

In 2021 i obtained a Second Level Master Degree in "Process Chemistry Applied to Active Pharmaceutical Ingredients",
During this period i dealt with the chemical synthesis of organic compounds and the production of complex organic compounds through the use of microorganisms in bioreactors.
I spent the first six months of my second level master degree at the University of Milan in the laboratories of professor Maurizio Benaglia training in the chemical synthesis of organic compounds, the use of chromatographic columns and various other isolation and purification techniques, together with nmr analysis
Then, i spent the following six months as a treinee at the pharmaceutical company Indena spa , where i produced antibiotic compounds through microbial fermentation processes in bioreactors.
In particular i worked on the production of a secondary metabolite, used as a scaffold for the synthesis of antitumoral compuond, in a bioreactor through the use of microorganisms.

In 2021, during the covid emergency, i managed a biological analysis laboratory on MSC cruise ships, where i dealt with the analysis of biological samples using rt-lamp technique in order to identify people infected with covid.

From may 2022 to may 2023 i have been working as a researcher assistant at the Institute of Agricultural Biology and Biotechnology of the National Research Council in Milan (CNR-IBBA).
At the CNR-IBBA i dealt with in vitro plant cultures and whit genome editing using CRISPR-Cas technology. The purpose of the project is to obtain transformed Camelina Sativa plants. In particular, by using a plasmid vector and Agrobacterium strains, we try to transform leaf tissue explants, in order to obtain plants that express our Cas/guide system and that are edited in the DNA region of our interest.

ATTIVITÀ PROGETTUALE

Anno	Progetto

TITOLARITÀ DI BREVETTI

Brevetto

CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede

PUBBLICAZIONI

Libri

Articoli su riviste
Cancer-related Mutations with Local or Long-range Effects on an Allosteric Loop of p53". ,Journal of Molecular Biology,2022. DOI:10.1016/j.jmb.2022.167663

Atti di convegni

ALTRE INFORMAZIONI

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

RICORDIAMO che **i curricula SARANNO RESI PUBBLICI sul sito di Ateneo** e pertanto si prega di non inserire dati sensibili e personali. Il presente modello è già precostruito per soddisfare la necessità di pubblicazione senza dati sensibili.

Si prega pertanto di **NON FIRMARE** il presente modello.

Luogo e data: Milano, 13/07/2023