



## Nicola Filippo Virzì

📍 **Address:** Via San Filippo 74, 94010, Nissoria, Italy

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**Gender:** Male **Date of birth:** 15/05/1995 **Nationality:** Italian

### ABOUT ME

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I hold experience in computational design, synthesis, characterization, and formulation of small drugs and natural products. My main areas of interest are medicinal chemistry, formulation chemistry and analytical sciences.

### EDUCATION AND TRAINING

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[ 01/12/2021 – Current ] **Ph.D student in Biotechnology**

*University of Catania*

**Address:** Department of Drug and Health Sciences, Viale andrea Doria, 6, 95125, Catania, Italy

[ 26/01/2021 – 31/03/2022 ] **II level Master in Drug Design & Synthesis (MDDS)**

*University of Siena*

**Address:** Department of Biotechnologies, Chemistry and Pharmacy, via Aldo Moro 2, 53100, Siena, Italy

**Thesis:** "Rational design and synthesis of novel heme oxygenase I inhibitors"

[ 11/2020 ] **Qualification to the profession of Pharmacist**

*University of Catania*

**Address:** Department of Drug and Health Sciences, Viale andrea Doria, 6, 95125, Catania, Italy

[ 10/2014 – 07/2020 ] **Master's degree in Chemistry and Pharmaceutical Technologies (CTF)**

*University of Catania*

**Address:** Department of Drug and Health Sciences, Viale andrea Doria, 6, 95125, Catania, Italy

**Thesis:** "Rational design and synthesis of heme oxygenase II inhibitors"

[ 03/2019 – 03/2020 ] **Thesis researcher at Med-Chem lab n° 6**

*University of Catania*

**Address:** Department of Drug and health sciences, Viale andrea Doria, 6, 95125, Catania, Italy

[ 07/2018 – 01/2019 ] **Internship as pharmacist**

*Pesco & C. pharmacy*

**Address:** 94010, Assoro, Italy

[ 09/2009 – 07/2014 ] **Scientific high school diploma**

*“Enrico Medi” high school*

**Address:** Via antonio Vivaldi, 2, 94013, Leonforte

## TRAINING COURSES

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**Online course “Industrial Biotechnology” at Manchester University, UK.**

**Online course “Drug discovery” at UC San Diego, California, US.**

**Online course “Drug development” at UC San Diego, California, US.**

**“Health and safety in the workplace – mid risk” certificate at University of Catania**

## RESEARCH SKILLS

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### **Organic synthesis techniques**

- Conventional organic synthesis, synthesis in anhydrous environment, Microwave Assisted Organic Synthesis (MAOS), liquid-liquid extraction

### **Purification techniques**

- Flash chromatography, Biotage®, thin layer chromatography (TLC), crystallization

### **Molecules characterization:**

- IR, 1H- and 13C-NMR, UV-Vis, melting point

### **Spectra interpretation:**

- IR, NMR, UV-Vis, MS

### **Formulation techniques:**

- SMA formulation, hydrogels formulation, solvent evaporation, kneeding, precipitation, lyophilization.

### **Docking, molecular modelling and computational techniques:**

- Intermediate-advance user of Autodock tools, Marvin sketch, PyMol, Biovia DS, YASARA, Qikprop, SwissADME

## LANGUAGE SKILLS

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**Mother tongue(s):** Italian

**Other language(s):**

**English**

**LISTENING** C1 **READING** B2 **WRITING** B2

**SPOKEN PRODUCTION** B2 **SPOKEN INTERACTION** B2

## DIGITAL SKILLS

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Chemdraw3D | Marvin Sketch | AutoDockTools | MestreNova | Microsoft Office | Social Media | Digital Problem Solving | Adobe (Adobe Photoshop, Adobe Illustrator, Adobe Lightroom, Adobe InDesign, Adobe Premiere)

## SOFT SKILLS

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### Soft skills

Excellent communication, relational and adaptation skills. Excellent problem solving and team working abilities. Able to work under stressfull condition. Excellent organization and planning skills. Compliance with the deadline and able to grasp new concepts quickly.

## PUBLICATIONS

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[ 2020 ] **The Promise of Nanotechnology in Personalized Medicine**

<https://doi.org/10.3390/jpm12050673>

Alghamdi MA, Fallica AN, Virzì N, Kesharwani P, Pittalà V, Greish K. The Promise of Nanotechnology in Personalized Medicine. *Journal of Personalized Medicine*. 2022; 12(5): 673.

## RECOMMENDATIONS

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### Ph.D supervisor

**Name:** Valeria Pittalà

**Email:** [valeria.pittala@unict.it](mailto:valeria.pittala@unict.it)

Ph.D, Associate Professor

### MDDS master coordinator

**Name:** Elena Petricci

**Email:** [elena.petricci@unisi.it](mailto:elena.petricci@unisi.it)

Ph.D, Associate Professor

### Pharmacist tutor

**Name:** Ernesto Pesco

**Email:** [ernestopesco@gmail.com](mailto:ernestopesco@gmail.com)

Director of Pesco & Co. pharmacy

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"In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document."

Catania, 22/05/2022

Virzi Nicola Filippo

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