

## Curriculum Vitae Lo Monte Matteo

### **Personal Data**

First name: Matteo

Last name: Lo Monte

### **Core skills**

**Computational Chemist:** Molecular Modelling, Drug Design and Development, Medicinal Chemistry, Bioinformatics, Cell Signaling.

**Business Consultant:** Grant Application, Budget Reporting, KPIs determination, tracking and reporting. Project and Program Management.

## **Education**

- **PhD:**

**Nov 2011-Jan 2015**

PhD in Medicinal Chemistry, XXVII, CHIM/08

Università degli Studi di Milano

Title of the thesis: '*In silico screening of Taste Receptors: an integrate modelling approach*'

Tutor: Prof. Giulio Vistoli; PhD coordinator: prof. Ermanno Valoti

- **Master's degree:**

**2006-2009**

Degree in Pharmaceutical Biotechnologies

Università degli Studi di Milano

Graduation grade: 108/110

Title of the thesis: '*Role of hydrophobic interaction in the nicotinic recognition: an inter-species analysis on  $\alpha 3\beta 4$  subtype*'

Tutor: Prof. Giulio Vistoli

- **Bachelor's degree:**

**2002-2006**

Degree in Pharmaceutical Biotechnologies

Università degli Studi di Milano

Graduation grade: 92/110

Title of the thesis: '*Analysis of USPIO limits to visualize inflammatory cells in animal models for chronic renal failures by NMR approaches*'

Tutor: Prof. Luciana Mussoni

## **Professional experiences**

### **Jul 2020 – Present**

Business consultant for biotech SME

Role and competences:

- Planning, organization and management of business projects and programs
- Determination and tracking of the project's KPIs
- Report preparation
- Preparation of documentation for grant application
- Preparation of Project and Business presentations for investor reviewing boards
- Budget administration and Expenses reporting
- Website and Logo Designer
- Staff recruitment
- General bureaucracy

### **Mar 2023 – Present**

Senior research fellow

Institute of Endocrinology and Experimental Oncology (IEOS), Naples - CNR

Project Title: *'Mechanisms of the enhanced inflammatory responses in ageing individuals: inflammation'*

Supervisor: Giovanna Grimaldi

### **Mar 2021 – Feb 2023**

Senior research fellow

Institute of Endocrinology and Experimental Oncology (IEOS), Naples - CNR

Project Title: *'Shp1 phosphatase and its binders, glycerophosphoinositols, in the identification and development of specific cancer therapies'*

Supervisor: Alessia Varone

### **Mar 2015 – Feb 2021**

Research fellow

Institute of Biochemistry and Cell Biology (IBBC), Naples - CNR

Project Title: *'Cancer relevant molecular pathways in the intracellular membrane transport apparatus'*

Supervisor: Alberto Luini

### **Feb 2013 – Jan 2015**

Research fellow

Dept. of Pharmaceutical Sciences, Università degli Studi di Milano

Project Title: *'In silico modeling and study of the interactive capabilities of the TRPM5 and TRPM8 ion channels'*

Supervisor: Giulio Vistoli

### **Apr 2010 – Apr 2011**

Visiting Research Specialist

Dept. of Medicinal chemistry and Pharmacognosy, (MC781), University of Illinois at Chicago,  
UIC

Supervisor: Alan P. Kozikowski

Founding grant: U19-MH085193

## **Teaching assignments in university and higher education courses:**

### **Second semester of the academic year 2012/2013**

Course: *Analysis of medicines*

Degree in Chemistry and Pharmaceutical Technologies, II year

Università degli Studi di Milano

Role: Tutoring of students, scientific support during the exercises and supervision of the final exam

### **Second semester of the academic year 2011/2012**

Course: *Analysis of medicines*

Degree in Chemistry and Pharmaceutical Technologies, II year

Università degli Studi di Milano

Role: Tutoring of students, scientific support during the exercises and supervision of the final exam

### **16 Jul 2015**

Member of the master's degree commission in Chemistry and Pharmaceutical Technologies,  
Università degli Studi di Milano

### **10 Feb 2015**

Member of the master's degree commission in Pharmacy,  
Università degli Studi di Milano

### **Oct 2014- Jul 2015**

Co-supervisor of experimental thesis in Degree in Chemistry and Pharmaceutical Technologies, Università degli Studi di Milano

### **Apr 2014- Feb 2015**

Co-supervisor of experimental thesis in Pharmacy,  
Università degli Studi di Milano

## **Publications:**

**H-index (Google Scholar): 10**

- *PKD-dependent PARP12-catalyzed mono-ADP-ribosylation of Golgin-97 is required for E-cadherin transport from Golgi to plasma membrane*  
Authors: Giovanna Grimaldi, Angela Filograna, Laura Schembri, **Matteo Lo Monte**, Rosaria Di Martino, Marinella Pirozzi, Daniela Spano, Andrea R. Beccari, Seetharaman Parashuraman, Alberto Luini, Carmen Valente and Daniela Corda.  
Journal: PNAS  
Year: 2022
- *Prioritization of driver genes in cancer-associated copy number alterations identifies B4GALT5 as a glycooncogene*  
Authors: Seetharaman Parashuraman, Pranoy Sahu, Francesco Russo, Ilenia Agliarulo, Riccardo Rizzo, **Matteo Lo Monte**, Nicola Normanno, Silvia Soddu, Francesca Carlomagno, Alberto Luini.  
Published on bioRxiv  
Year: 2022
- *Precision localization of cellular proteins with fluorescent Fab-based probes*  
Authors: Federica Liccardo, **Matteo Lo Monte** (co-first), Brunella Corrado, Martina Veneruso, Simona Celentano, Maria Rosaria Coscia, Giuseppe Coppola, Piero Pucci, Giuseppe Palumbo, Alberto Luini, Marko Lampe, Vincenzo Manuel Marzullo.  
Published on bioRxiv  
Year: 2021
- *Autoregulatory circuit regulating basolateral cargo export from the TGN: Role of the orphan receptor GPRC5A in PKD signaling and cell polarity*  
Authors: Rosaria Di Martino, Anita Capalbo, Lucia Sticco, Alessandra Varavallo, Vidya Kunnathully, Valentina De Luca, Namrata Ravi Iyengar, **Matteo Lo Monte**, Petra Henklein, Jorge Cancino, Alberto Luini  
Published on bioRxiv  
Year: 2020
- *A signalling cascade involving receptor-activated phospholipase A2, glycerophosphoinositol 4-phosphate, Shp1 and Src in the activation of cell motility*  
Authors: Alessia Varone, Stefania Mariggì, Manpreet Patheja, Vincenzo Maione, Antonio Varriale, Mariangela Vessichelli, Daniela Spano, Fabio Formiggini, **Matteo Lo Monte**, Nadia Brancati, Maria Frucci, Pompea Del Vecchio, Sabato D'Auria, Angela Flagiello, Clara Iannuzzi, Alberto Luini, Piero Pucci, Lucia Banci, Carmen Valente, Daniela Corda  
Journal: Cell Communication and Signaling  
Year: 2019
- *Auto-regulation of secretory flux by sensing and responding to the folded cargo protein load in the endoplasmic reticulum*

Authors: Advait Subramanian, Anita Capalbo, Namrata Ravi Iyengar, Riccardo Rizzo, Antonella di Campi, Rosaria Di Martino, **Matteo Lo Monte**, Andrea R Beccari, Amol Yerudkar, Carmen Del Vecchio, Luigi Glielmo, Gabriele Turacchio, Marinella Pirozzi, Sang Geon Kim, Petra Henklein, Jorge Cancino, Seetharaman Parashuraman, Dario Diviani, Francesca Fanelli, Michele Sallese, Alberto Luini

Journal: Cell

Year: 2019

- *ADPPredict: ADP-ribosylation site prediction based on physicochemical and structural descriptors*

Authors: **Matteo Lo Monte**, Candida Manelfi, Marica Gemei, Daniela Corda, Andrea Rosario Beccari

Journal: Bioinformatics

Year: 2018

- *PARP1-produced poly-ADP-ribose causes the PARP12 translocation to stress granules and impairment of Golgi complex functions*

Authors: Giuliana Catara, Giovanna Grimaldi, Laura Schembri, Daniela Spano, Gabriele Turacchio, **Matteo Lo Monte**, Andrea Rosario Beccari, Carmen Valente, Daniela Corda

Journal: Scientific reports

Year: 2017

- *Novel selective, potent naphthyl TRPM8 antagonists identified through a combined ligand-and structure-based virtual screening approach*

Authors: G Andrea R Beccari, Marica Gemei, **Matteo Lo Monte**, Nazareno Menegatti, Marco Fanton, Alessandro Pedretti, Silvia Bovolenta, Cinzia Nucci, Angela Molteni, Andrea Rossignoli, Laura Brandolini, Alessandro Taddei, Lorena Za, Chiara Liberati, Giulio Vistoli

Journal: Scientific reports

Year: 2017

- *An Insight into the Skin Penetration Enhancement Mechanism of N-Methylpyrrolidone*

Authors: Francesco Cilurzo, Giulio Vistoli, Francesca Selmin, Chiara GM Gennari, Umberto M Musazzi, Silvia Franze, **Matteo Lo Monte**, Paola Minghetti

Journal: Molecular pharmaceutics

Year: 2014

- *Isoxazole derivatives as potent transient receptor potential melastatin type 8 (TRPM8) agonists*

Authors: Carmine Ostacolo, Paolo Ambrosino, Roberto Russo, **Matteo Lo Monte**, Maria Virginia Soldovieri, Sonia Laneri, Antonia Sacchi, Giulio Vistoli, Maurizio Tagliatalata, Antonio Calignano

Journal: European Journal of Medicinal Chemistry

Year: 2013

- *Exploring the activation mechanism of TRPM8 channel by targeted MD simulations*  
Authors: Alessandro Pedretti, Alessandra Labozzetta, **Matteo Lo Monte**, Andrea R Beccari, Alessio Moriconi, Giulio Vistoli  
Journal: Biochem Biophys Res Commun  
Year: 2011

### **Software development:**

- Webapp  
Title: *ADPredict* (available at [www-adpredict.net](http://www-adpredict.net))  
Authors: Anna Fava, **Matteo Lo Monte**, Candida Manelfi e Andrea Rosario Beccari  
Role: Contribution to the development of content, structure and design of the web application.



## **Oral communication at Conferences:**

- **Nov 16-17, 2017**

Conference: *Computationally driven drug discovery meeting 5 (CDDD5)*, Milan

Title: ADPredict: ADP-ribosylation site prediction based on physicochemical and structural descriptors.

- **Oct 24-26, 2016**

Conference: *7th International Conference on Proteomics & Bioinformatics*.

Title: ADPredict: ADP-ribosylation sites prediction based on physicochemical and structure descriptors

- **Jun 9-11, 2014**

Conference: *Nuove prospettive Chimica Farmaceutica 8 (NPCF8)*, Parma

Title: Comparing (and combining) ligand-based and structure based virtual screening approaches: the fruitful case of TRPM8 blockers.

Selected and funded for travel and accommodation

- **Mar 4-6, 2014**

Conference: *Computationally driven drug deiscovery meeting 3 (CDDD3)*, Verona

Title: Comparing (and combining) ligand-based and structure based virtual screening approaches: the fruitful case of TRPM8 blockers

- **Jul 17, 2010**

Conference: *U19 annual meeting*, New York

Title: Insights into the structural determinants required for high-affinity binding of chiral cyclopropane-containing ligands to  $\alpha 4\beta 2$ -nicotinic acetylcholine receptors.

Matteo Lo Monte, PhD

I authorize the processing of personal data contained in my Curriculum Vitae based on art. 13 GDPR 679/16. I authorize the processing of my personal data pursuant to Legislative Decree 101/2018 and art. 13 GDPR (EU Regulation 2016/679) for the purposes of personnel research and selection.