Dr.ssa Antonella Messore
CURRICULUM VITAE

PERSONAL DATA

Name and Surname	Antonella Messore
Address	Via Antonio Piccone, 10, 16159, Genoa, Italy
Phone	Cell. +39 3454369596
E-mail	antonella.messore@gmail.com
Nazionality	Italiana
Date of birth	17-10-1981
place of birth	Cassino (FR)
tax code	MSSNNL81R57C034B
Marital Status	Maiden
sex	F

PROFILE

A hardworking and enthusiastic research chemist with a strong background in synthetic and medicinal chemistry. Extensive experience in the areas of new synthetic methodology of different heterocycles. Excellent problem solving and time management skills with a proven ability to work to deadlines.

A motivated and dedicated individual with excellent timekeeping, communicational and organizational skills who can work well independently or as part of a team.

EDUCATION

Dates (from-to)	01/11/ 2012- 13/01/2016
Organization	"Sapienza" University of Rome, Department of Chemistry and Drug Technology, Piazzale Aldo Moro 5, 00185, Rome, Italy
Main subjects studied	PhD in Pharmaceutical Sciences at the Dept. of Pharmaceutical Chemistry and drug Technology "Sapienza" University of Rome (Italy) with a final report entitled: "Quinolinonyl Derivatives as anti-HIV-1 agents".
professional qualification	PhD
score	Excellent

Dates (from-to)	01/10/2000 - 26/01/2012
Organization	"Sapienza" University of Rome Faculty of Pharmacy and Medicine
Main subjects studied	Degree in Chemistry and Pharmaceutical Technology at the "Sapienza" University of Rome, Italy M. Sc. in Pharmaceutical Chemistry and Technology defending an experimental dissertation entitled **"**Naphthalene derivatives as inhibitors of β-amyloid aggregation." Tutor: Prof. Roberta Costi. Research and synthesis of new pharmacologically active molecules for the treatment of Alzheimer disease.
professional qualification	Doctor in Chemistry and Pharmaceutical Technology.
score	110/110

Dates (from-to)	15/09/1995 - 08/07/2000
Organization	High school diploma in agriculture and the environment

Main subjects studied	Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Physical Chemistry, Engineering, Biology, Biotechnology, Mathematics, English Language.
professional qualification	Chemical and Biological Technician
score	95/100

WORK EXPERIENCE

Dates (from-to)	01/02/209-
Name of the employer	Dept. of Pharmaceutical Chemistry and drug Technology "Sapienza" University of Rome (Italy)
main activities	Ricercatore a tempo determinato di tipo A

Dates (from-to)	01/12/2016-31/01/2019
Name of the employer	ISTITUTO ITALIANO DI TECNOLOGIA IIT - Italian Institute of Technology Via Morego, 30 16163 Genova - Italy
main activities	Post-Doctoral in Medicinal Chemistry and Drug Discovery with Tiziano Bandiera and Fabio Bertozzi group. Design, development and optimization of the syntheses of new heterocycles compounds as New treatment strategies for Fibrodysplasia Ossificans Progressiva. Generation and interpretation of analytical data (NMR, MS). Regular presentations of research result and literature topics.

Dates (from-to)	2015- 2016
Name of the employer	Dept. of Pharmaceutical Chemistry and drug Technology "Sapienza" University of Rome (Italy)
main activities	Medicinal Chemistry lessons (6 h) “MASTER DI II LIVELLO IN NUTRACEUTICA E COSMETICA DI PRODOTTI DI ORIGINE VEGETALE”

Dates (from-to)	01/11/ 2015- 01/07/2016
Name of the employer	Dept. of Basic and Applied Sciences for Engineering University of Rome " Sapienza" Via del Castro Laurenziano 7 00161 Rome Italy
main activities	Stoichiometry Tutor

Dates (from-to)	01/07/2012 - 30/07/2012
Name of the employer	“Sapienza” University of Rome, Department of Chemistry and Drug Technology, Piazzale Aldo Moro 5, 00185, Rome, Italy.
main activities	Support for the research project "Acids pyrrolyl dichetohexenoic acid as new antiHIV people acting on the function of the enzyme ribonuclease H reverse transcriptase of HIV-1." research group of Prof. Roberta Costi.

INTERNSHIP

Dates (from-to)	03/2015 – 10/2015
Name of the employer	University of Antwerp (Belgium), Department of Medicinal Chemistry, Faculty of Pharmacy.
main activities	Internship, research group of Prof. Koen Augustyns. Tutor: Prof. Pieter Van Der Veken. Research and synthesis of new Caspase 4 inhibitors.

Dates (from-to)	06/2010 – 01/2012
Name of the employer	"Sapienza" University of Rome, Department of Chemistry and Drug Technology, research group of Professor Roberta Costi. Piazzale Aldo Moro 5, 00185, Rome, Italy.
main activities	Pre-graduate internship. Title of thesis: "Naphthalene derivatives of β-amyloid aggregation inhibitors." Tutor: Prof. Roberta Costi. Research and synthesis of new pharmacologically active molecules

PUBLICATIONS

1) New nucleotide-competitive non-nucleoside inhibitors of terminal deoxynucleotidyl transferase: discovery, characterization, and crystal structure in complex with the target.
Costi R, Crucitti GC, Pescatori L, Messore A, Scipione L, Tortorella S, Amoroso A, Crespan E, Campiglia P, Maresca B, Porta A, Granata I, Novellino E, Gouge J, Delarue M, Maga G, Di Santo R.
J Med Chem. 2013 Sep 26;56(18):7431-41.

2) 6-(1-Benzyl-1H-pyrrol-2-yl)-2,4-dioxo-5-hexenoic acids as dual inhibitors of recombinant HIV-1 integrase and ribonuclease H, synthesized by a parallel synthesis approach.
Costi R, Métifiot M, Esposito F, Cuzzucoli Crucitti G, Pescatori L, Messore A, Scipione L, Tortorella S, Zinzula L, Novellino E, Pommier Y, Tramontano E, Marchand C, Di Santo R.
J Med Chem. 2013 Nov 14;56(21):8588-98.

3) Basic quinolinonyl diketo acid derivatives as inhibitors of HIV integrase and their activity against RNase H function of reverse transcriptase.
Costi R, Métifiot M, Chung S, Cuzzucoli Crucitti G, Maddali K, Pescatori L, Messore A, Madia VN, Pupo G, Scipione L, Tortorella S, Di Leva FS, Cosconati S, Marinelli L, Novellino E, Le Grice SF, Corona A, Pommier Y, Marchand C, Di Santo R.
J Med Chem. 2014 Apr 24;57(8):3223-34.

4) Structure-activity relationship of pyrrolyl diketo acid derivatives as dual inhibitors of HIV-1 integrase and reverse transcriptase ribonuclease H domain.
Cuzzucoli Crucitti G, Métifiot M, Pescatori L, Messore A, Madia VN, Pupo G, Saccoliti F, Scipione L, Tortorella S, Esposito F, Corona A, Cadeddu M, Marchand C, Pommier Y, Tramontano E, Costi R, Di Santo R.
J Med Chem. 2015 Feb 26;58(4):1915-28.

5) N-Substituted Quinolinonyl Diketo Acid Derivatives as HIV Integrase Strand Transfer Inhibitors and Their Activity against RNase H Function of Reverse Transcriptase.
Pescatori L, Métifiot M, Chung S, Masoaka T, Cuzzucoli Crucitti G, Messore A, Pupo G, Madia VN, Saccoliti F, Scipione L, Tortorella S, Di Leva FS, Cosconati S, Marinelli L, Novellino E, Le Grice SF, Pommier Y, Marchand C, Costi R, Di Santo R.
J Med Chem. 2015 Jun 11;58(11): 4610-23.

6) Discovery of N-aryl-naphthylamines as in vitro inhibitors of the interaction between HIV integrase and the cofactor LEDGF/p75.
Cuzzucoli Crucitti G, Pescatori L, Messore A, Madia VN, Pupo G, Saccoliti F, Scipione L, Tortorella S, Di Leva FS, Cosconati S, Novellino E, Debyser Z, Christ F, Costi R, Di Santo R.
Eur J Med Chem. 2015 Aug 28;101: 288-94.

7) Hypoglycemic activity of curcumin synthetic analogues in alloxan-induced diabetic rats.
Das KK, Razzaghi-Asl N, Tikare SN, Di Santo R, Costi R, Messore A, Pescatori L, Crucitti GC, Jargar JG, Dhundasi SA, Saso L.

J Enzyme Inhib Med Chem. 2016;31(1):99-105.

8) Structure-Activity Relationships on Cinnamoyl Derivatives as Inhibitors of p300 Histone Acetyltransferase.
Madia VN, Benedetti R, Barreca ML, Ngo L, Pescatori L, Messore A, Pupo G, Saccoliti F, Valente S, Mai A, Scipione L, Zheng YG, Tintori C, Botta M, Cecchetti V, Altucci L, Di Santo R, Costi R.
ChemMedChem. 2017 Aug 22;12(16):1359-1368

9) Inhibition of Leishmania infantum trypanothione reductase by diaryl sulfide derivatives.
Saccoliti F, Angiulli G, Pupo G, Pescatori L, Madia VN, Messore A, Colotti G, Fiorillo A, Scipione L, Gramiccia M, Di Muccio T, Di Santo R, Costi R, Ilari A.
J Enzyme Inhib Med Chem. 2017 Dec;32(1):304-310.

10) Antioxidant Properties of Buffalo-Milk Dairy Products: A β-Lg Peptide Released after Gastrointestinal Digestion of Buffalo Ricotta Cheese Reduces Oxidative Stress in Intestinal Epithelial Cells.
Basilicata MG, Pepe G, Adesso S, Ostacolo C, Sala M, Sommella E, Scala MC, Messore A, Autore G, Marzocco S, Campiglia P.
Int J Mol Sci. 2018 Jul 4;19(7). pii: E1955

11) Biological evaluation and structure-activity relationships of imidazole-based compounds as antiprotozoal agents.
Saccoliti F, Madia VN, Tudino V, De Leo A, Pescatori L, Messore A, De Vita D, Scipione L, Brun R, Kaiser M, Mäser P, Magalhaes Calvet C, K.Jennings G, M.Podust L, Costi R, Di Santo R.
European Journal of Medicinal Chemistry 2018 Aug 5, 156, 53-60

12) Novel Benzazole Derivatives Endowed with Potent Antiheparanase Activity.
Madia VN, Messore A, Pescatori L, Saccoliti F, Tudino V, De Leo A, Bortolami M, Scipione L, Costi R, Rivara S, Scalvini L, Mor M, Ferrara FF, Pavoni E, Roscilli G, Cassinelli G, Milazzo FM, Battistuzzi G, Di Santo R, Giannini G.
J Med Chem. 2018 Aug 9;61(15):6918-6936. doi: 10.1021/acs.jmedchem.8b00908. Epub 2018 Jul 30.

13) Novel Symmetrical Benzazolyl Derivatives Endowed with Potent Anti-Heparanase Activity.
Messore A, Madia VN, Pescatori L, Saccoliti F, Tudino V, De Leo A, Bortolami M, De Vita D, Scipione L, Pepi F, Costi R, Rivara S, Scalvini L, Mor M, Ferrara FF, Pavoni E, Roscilli G, Cassinelli G, Milazzo FM, Battistuzzi G, Di Santo R, Giannini G.
J Med Chem. 2018 Dec 13;61(23):10834-10859. doi: 10.1021/acs.jmedchem.8b01497. Epub 2018 Nov 29.

14) In Vitro Antiviral Activity of New Oxazoline Derivatives as Potent Poliovirus Inhibitors.
Madia VN, Messore A, Pescatori L, Saccoliti F, Tudino V, De Leo A, Scipione L, Fiore L, Rhoden E, Manetti F, Oberste MS, Di Santo R, Costi R.
J Med Chem. 2019 Jan 24;62(2):798-810. doi: 10.1021/acs.jmedchem.8b01482. Epub 2018 Dec 18.

15) Polyphenolic Extract from Tarocco (Citrus sinensis L. Osbeck) Clone "Lempso" Exerts Anti-Inflammatory and Antioxidant Effects via NF-kB and Nrf-2 Activation in Murine Macrophages.
Pepe G, Sommella E, Cianciarulo D, Ostacolo C, Manfra M, Di Sarno V, Musella S, Russo M, Messore A, Parrino B, Bertamino A, Autore G, Marzocco S, Campiglia P.
Nutrients. 2018 Dec 11;10(12). pii: E1961. doi: 10.3390/nu10121961.

16) Design, Synthesis, and Biological Evaluation of New 1-(Aryl-1 H-pyrrolyl)(phenyl)methyl-1 H-imidazole Derivatives as Antiprotozoal Agents.
Saccoliti F, Madia VN, Tudino V, De Leo A, Pescatori L, Messore A, De Vita D, Scipione L, Brun R, Kaiser M, Mäser P, Calvet CM, Jennings GK, Podust LM, Pepe G, Cirilli R, Faggi C, Di Marco A, Battista MR, Summa V, Costi R, Di Santo R.
J Med Chem. 2019 Feb 14;62(3):1330-1347. doi: 10.1021/acs.jmedchem.8b01464. Epub 2019 Jan 23.

17) Discovery of a pyrimidine compound endowed with antitumor activity.
Taglieri L, Saccoliti F, Nicolai A, Peruzzi G, Madia VN, Tudino V, Messore A, Di Santo R, Artico M, Taurone S, Salvati M, Costi R, Scarpa S.
Invest New Drugs. 2019 Mar 21. doi: 10.1007/s10637-019-00762-y. [Epub ahead of print]

18) Comparison of different methods for the extraction of cannabinoids from cannabis.
De Vita D, Madia VN, Tudino V, Saccoliti F, De Leo A, Messore A, Roscilli P, Botto A, Pindinello I, Santilli G, Scipione L, Costi R, Di Santo R.
Nat Prod Res. 2019 Apr 29:1-7. doi: 10.1080/14786419.2019.1601194. [Epub ahead of print]

19) Structure-guided approach to identify a novel class of anti-leishmaniasis diaryl sulfide compounds targeting the trypanothione metabolism.
Colotti G, Saccoliti F, Gramiccia M, Di Muccio T, Prakash J, Yadav S, Dubey VK, Vistoli G, Battista T, Mocci S, Fiorillo A, Bibi A, Madia VN, Messore A, Costi R, Di Santo R, Ilari A.
Amino Acids. 2019 Apr 29. doi: 10.1007/s00726-019-02731-4. [Epub ahead of print]

POSTER AND CONGRESSES

Poster:

Cinnamoyl derivatives as inhibitors of histone acetyltransferase enzymes. (NMMC, Rome, La Sapienza University, 2013)

Azole based compounds targeted to lanosterol 14□-demethylase of *T. cruzi.* (NMMC, Rome, La Sapienza University, 2013)

New Nucleotide-Competitive Non-Nucleoside Inhibitors of Terminal Deoxynucleotidyl Transferase. (NMMC, Rome, La Sapienza University, 2013)

Discovery of 4(1*H*)-Quinolinone Derivatives as Anti-Chikungunya Virus Agents. (Approaches for Identification of Antiviral Agents Summer School (IAAASS), September 28 – October 3, 2014, Santa Margherita di Pula, Sardinia)

New potent antiviral derivatives to defeat poliovirus disease. (Workshop sulla Ricerca 2015 Rome, La Sapienza)

Inhibition of *Leishmania infantum* Trypanothione Reductase by Thioethers. (Workshop sulla Ricerca 2015 Rome, La Sapienza)

And other.

Congresses and school:

ESMEC 2013, Urbino, Italy.

Epigenetic Rome Training School Sapienza University of Rome, May 21-24, 2013.

PhD in Biochemistry * 2014 *PhD school BEMM, Bioinformatics course Theoretical and Practical.

Approaches for Identification of Antiviral Agents Summer School (IAAASS), September 28 – October 3, 2014, Santa Margherita di Pula, Sardinia)

FMC 2015, Antwerp, Belgium.

And other

LANGUAGE

Native	**Italian**	
Other languages	English	French
Reading skills	Excellent	Good
Writing skills	Good	Fair
Verbal skills	Good	Fair

TEACHING ACTIVITIES

2015-2016	Stoichiometry Tutor for the faculty of "Engineering Bioenergetics, Aerospace Engineering and Clinical Engineering" for a total of 150 hours.
2013-2014	Stoichiometry Tutor in for the faculty of "Engineering Bioenergetics, Aerospace Engineering and Clinical Engineering" for a total of 150 hours.
2012-2015	teaching activities of the "Medicinal Chemistry II" curse (M. Sc. Pharmacy, Supervisor: Prof. Roberto Di Santo)
2012-2014	Supervisor during the practical laboratory of the "Chemical, Pharmaceutical and Toxicological Analysis II" course (M.Sc. Chemistry and Pharmaceutical Technologies, Supervisor: Prof. Roberta Costi)

INFORMATICS SKILLS

Excellent computer skills: in-depth knowledge of the major operating systems (Windows, Mac, Linux), and the Office suite (Word, Excel, Powerpoint, Access). Knowledge of software used in chemistry (Chem3D, ChemDraw, ACDLABS). Online databases: Beilstein Abstracts, SciFinder Scholar, PubMed.

TECHNICAL SKILLS

Analytical techniques:	HPLC (Shimatzu LC 10AD VP and CTO-10AC VP), ^{1}H and ^{13}C NMR (Brucher 400Hz ultrashild), ESI-MS Mass spectrometer (Finnigan-Matt ion trap), IR spectrometer Perkin Elmer 1310.
Synthetic instruments:	CEM Discover microwave reactor, parallel synthesis reactor Syncrore Buchi, Parr hydrogenator 100 PSI reactor, Flash comatography ISOLERA BIOTAGE, flow synthesis reactor Uniqsys; basic instrumentation for the synthesis, extraction and purification of organic compounds

DRIVING LICENSE

International driving license type B.

HOBBIES

Various readings, sports, travel, music.

Good communication skills and good listening skills.
Excellent organizational skills, teamwork and management of group work implemented during the university.

CONTACTS OF PROFESSIONAL REFERENCES

Prof. Roberto Di Santo : email: roberto.disanto@uniroma1.it
Phone: +39 06.4991.3150

Prof.ssa Roberta Costi : email: roberta.costi@uniroma1.it
Phone: +39 06.4969.3247

Dr Fabio Bertozzi email: fabio.bertozzi@iit.it

Phone: +39 010 71781 235

“In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.”