

CURRICULUM VITAE

FORMATO EUROPEO/EUROPEAN FORMAT



PERSONAL INFORMATION

Name, Surname	Annalisa Masi
Address	VIA VARIANTE TIBERINA 23
House number, street name, postcode, city, country	00065, FIANO ROMANO (RM), ITALY
Telephone	Mobile: +39 3494480721
E-mail	annalisa.masi@ic.cnr.it
Web of Science	WoS: http://www.researcherid.com/rid/B-9579-2015
ORCID	https://orcid.org/0000-0002-7163-3978
Nationality	Italian
Place and Date of birth	Rome, 17 december 1972

WORK EXPERIENCE

Position:	Researcher Institute of Crystallography - CNR N. MATRICOLA 14489
from 2020 to now from 2011 to 2020	Researcher at Institute of Crystallography – CNR Researcher at Institute for Organic Synthesis and Photoreactivity-CNR
Name and address of employer	IC-CNR Via Salaria Km29,300, Monterotondo Stazione (RM)
Type of business or sector	Research interest: organic chemistry, radical chemistry, radical damage to nucleic acid and nucleotides bioorganic chemistry, chemical biology, medicinal chemistry
Main activities and responsibilities	<ul style="list-style-type: none">• Design and synthesis of oligonucleotides for diagnostic and therapeutic use;• Study of oxidative DNA damage, enzymatic repair system and biomarkers discovery;

	<ul style="list-style-type: none"> • Study of the role of oxidative stress and relationship with human diseases; • Synthetic strategies development, compounds purification and characterization; • Extraction of natural biopolymers (polysaccharides) from microalgae and their characterization; • Development of Research project; • Scientific research, scientific writing, preparation and training of students and PhDs • Participation to national and international meetings; • Member of organizing committee of: <ul style="list-style-type: none"> - AMM "Accademia dei Meccanismi Molecolari", CNR from 2018 at present; - ECM "Aspetti Molecolari di Prevenzione e Salute", ISS (Roma) from 22.01 to 18.11.2016; - ITWIIN Conference Award 2016, Bologna 21-22 november 2016; - Advisor Board Member of the Rep Eat Programme Grant Agreement (2017)
<p>Position held Dates Name and address of employer</p>	<p>Collaboration grants from 01/02/2003 to 05/02/2010 IC-CNR Via Salaria Km 29,300 Monterotondo, Roma</p>
<p>Main activities and responsibilities</p>	<ul style="list-style-type: none"> • Chemistry of nucleic acids (design, synthesis and characterization); • Synthesis of the modified phosphoramidites and their use in automatic synthesis; • Study of the structure-function relationships in proteins and nucleic acids, in their complexes between them and with small molecules; • Mechanism of the antiviral drugs; • Study of the interaction of anticancer compounds with telomeric DNA, as a contribution to their anticancer activity.
<p>Position held Dates Name and address of employer Type of business or sector Main activities and responsibilities</p>	<p>Industry Researcher from 05/06/2000 to 31/12/2002 BIOSINT, Via Murillo 16, Sermoneta, Latina Research in organic chemistry</p> <ul style="list-style-type: none"> • Design and Synthesis of new aminocartin derivatives; • Scale-up of synthesis and production processes; • Scientific writing.

EDUCATION AND TRAINING

<p>Title of qualification awarded Dates</p>	<p>PhD in Pharmaceutical Sciences 04/06/2007</p>
<p>Name and type of organisation providing education and training Title Thesis</p>	<p>University La Sapienza, Rome Progettazione e Sintesi di Peptidi Bioattivi: Analoghi del formiltri-peptide chemiotattico for-Met-Leu-Phe-OMe</p>
<p>Principal subjects occupational skills covered</p>	<p>Organic Chemistry: Design and Synthesis of bioactive peptide</p>

Title of qualification awarded	Achieved license of practice chemistry
Dates	13/11/2001
Name and type of organisation providing education and training	University La Sapienza, Rome
Principal subjects	Chemistry
Title of qualification awarded	Master Degree in Chemistry
Dates	13/04/2000
Name and type of organisation providing education and training	University La Sapienza, Rome
Title Thesis	Studi per la sintesi diastereoselettiva del metabolita fungineo 13-stemarene

WORK ACTIVITIES

TECHNICAL SKILLS AND COMPETENCES

- Use of synthesis procedures and organic compounds separation in accordance with standards required in chemical laboratories Use of spectroscopic techniques for synthesis products identification: IR, UV, NMR, Fluorescence and CD.
- Design and solid state automatic synthesis of oligonucleotides; purification and characterization of oligonucleotides; use of chemical and biochemical techniques, such as: liquid chromatography associated with mass spectrometry (LC-MS/MS), ion exchange chromatography; gel electrophoresis (PAGE).
- Optimization of extraction protocol of polysaccharide mixture from specific microalgae and their characterization for the Protection of cultural HeritAge
- Extraction techniques of natural biopolymers (polysaccharides) from microalgae, and their purification and characterization
- Expertise in aminoacids modification and their insertion in peptides biosynthesis in solution.

COLLABORATION PROJECT INVOLVEMENTS

- Participant: 2021-2023. "Natural polySaccharides from Microalgae for the Protection of cultural HeritAge (Nympha)" POR FESR Lazio, PROT. A0375-2020-36489, Codice Progetto POR A0375E0006. PI Prof. Gabriele Favero
- Participant: 2015-2018. "Click Gene" H2020-MSCA-ETN-2014-642023. Marie Skłodowska Curie Actions – Innovation Training Networks (ITN). PI Dr Carla Ferreri
- Participant: 2012-2016. CMST COST Action CM1201. "BIOMIMETIC RADICAL CHEMISTRY". PI Dr Chryssostomos Chatgililoglu
- Participant: 2012-2014. European Commission (FP7-MC-IEF). Formation and roles of the 5',8-cyclo-2'-deoxyguanosine lesion (Acronym: CYCLOGUO). PI Dr Chryssostomos Chatgililoglu.
- Participant: 2011-2013. PRIN-2009K3RH7N The Reaction of hydroxyl radicals with nucleic acids: the reactivity scenario of single and tandem lesions in purine nucleotides in DNA. PI Dr Chryssostomos Chatgililoglu.

NATIONAL AND INTERNATIONAL COLLABORATIONS

- Dr. Chrysostomos Chatgililoglu, Dr. Carla Ferreri and Dr. Anna Sansone, ISOF-CNR, Bologna; Dr Marios Krokidis INN, NCSR "Demokritos", Athens, Greece: (Free Radic. Res. 2021, 55, 384–404; J. Am. Chem. Soc. 2020, 142, 5825–5833; Cells 2019, 8, 513; Cells 2019, 8, 116; Diagnostics 2017, 7, 1–14).
- Prof. N. Geacintov, New York University: (Biochemistry 2019, 58, 561–574; Biochemistry 2015, 54, 4181–4185; Nucl. Acids Res. 2014, 42, 5020–5032).
- Prof. Y. Liu, Florida International University: (DNA Repair 2015, 33, 24–34; Nucl. Acids Res. 2014, 42, 13749–13763).
- Dr Barbara Pascucci (IC-CNR), Dr Maria Rosaria D'errico (ISS), Dr Paola Fortini (ISS), Dr Eleonora parlanti (ISS), Dr Flavia Barone (ISS): (Cells 2022, 11, 1286; J. Appl. Toxicol. 2021, 41, 1980–1997; Cells 2020, 9, 1671; Redox Biol. 2020, 34, 101562; Cells 2019, 8, 1377).
- Dr Amina Antonacci (IC-CNR), Progetto Nympha " POR FESR Lazio dal 15-04-2021 al 15-10-2023.
- Collaborazione con il gruppo della Prof. Andrew Kellett, Dublin City University, (Biomolecules 2019, 9, 117; ACS Omega 2018, 3, 15952–15965).
- Prof.ssa Maria Rosaria Faraone Mennella, Università di Napoli "Federico II", Cells 2019, 8, 116.
- Prof. Andrea Peluso, Università Salerno: (J. Phys. Chem. B 2015, 119, 5462–5466; Front. Chem. 2015, 3, article 22).

INVITED LECTURES AND COMMUNICATIONS TO CONGRESSES

- Invited Speaker: Workshop: DIDACTA, Fortezza da Basso, Firenze, Italia, 2022. "La lipidomica in cucina: dalla parte dei grassi... in senso molecolare!" 20- 22 Maggio 2022.
- Invited Speaker: Aristotle University of Thessaloniki "Insects and algae: Alternative Food and Feed Sources" Virtual event, 22 November 2021 Title: "Biotechnological applications of microalgae Chlamydomonas reinhardtii.
- Short Communication. SIMPOSIO S.I.M.A.G. 2021. Virtual event, 22 November 2021 "5',8-Cyclopurine lesions: specific markers of DNA damage by HO. radical. From synthesis to diagnostics".
- Oral Communication: 1st Conference on Crystallography, Structural Chemistry and Biosystems, Catania, Italy, October 2021 "Free radicals induced DNA damage: Chemical, Analytical, Biological, and Diagnostic Aspects"
- Invited Speaker: Coffe Talk ISOF-CNR, Italy, December 2017. Titolo: "Free radical induced DNA modifications: synthetic and biological aspects ". Annalisa Masi
- Oral Communication: COST CM1201 WG2 MEETING IN ATHENS, 23 – 25 luglio 2015, Dublin, Ireland. "Diastereomeric 5',8-Cyclo-2-deoxypurines: brief overview of synthetic strategies, modeling and in vitro biological activity"
- Oral Communication: COST Action CM1201: Biomimetic Radical Chemistry, Inter-Working Group Meeting WG2/WG4, 17-19 October 2013, Athen, Greece. "Synthesis and properties of oligonucleotides containing purine 5',8-cyclo-2'-deoxynucleoside lesions as models of free radical DNA damage"

EDITORIAL ACTIVITIES

- Guest Editor of the Special Issue “Future Challenges and Trends of Nucleic Acids” for International Journal of Molecular Sciences (MDPI), 2022. Guest Editors: Dr Annalisa Masi, Dr Maria Moccia, Dr Barbara Pascucci.
Deadline 22 ottobre 2022.
- Peer-Reviewer for the following scientific journals: Cells, MDPI; International Journal of Molecular Sciences, MDPI; Molecules, MDPI; Cancers, MDPI; Pharmaceuticals, MDPI; Biomedicines, MDPI.
- Reviewer Board for Cancers, MDPI from 02-2020 to now.

TEACHING ACTIVITIES

- 2022 PhD Course "FREE RADICALS IN ORGANIC CHEMISTRY" at the Faculty of Pharmacy and Biochemistry of the University of Buenos Aires.
- 2016 to date Tutor, in the project of “PCTO” established by the MIUR for high school students More than 300 hours.
- 2022 Lesson on Molecular diagnostic (1 hour/year), professional training courses ECM, CNR of Bologna.
- 2021 Lesson on “Meccanismi molecolari di danno e riparazione del DNA da radiazioni solari” (1 hour/year), professional training courses ECM, CNR of Bologna.
- 2020 Lesson on “Diagnosi molecolare: genomica e nutrigenomica” (1 hour/year), professional training courses ECM, CNR of Bologna.
- 2019 Lesson on “Basi meccanicistiche di diagnosi molecolare” (1 hour/year), professional training courses ECM, CNR of Bologna.
- 2016 Lesson on “Stress ossidativo, ossidazione degli acidi nucleici e patologia umana” (1 hour/year), professional training courses ECM, ISS-Rome

ADDITIONAL INFORMATION

- Scientific Advisor ECM (Educazione Continua in Medicina) for “Accademia dei Meccanismi Molecolari (AMM)”, Terza Missione Project CNR, Bologna, Italy; from 2019 to date;
- Advisor Board Member of the Rep Eat Programme Grant Agreement and External members of Progress Committee of PhD student: PARASKEVI PRASINO, University of Teramo, Italy, 2017;
- Member of Organizing Committee of “Accademia dei Meccanismi Molecolari”, CNR, ISOF-Bologna, Italy; from 2019 to date;
- Scientific Member of: Corso di alta formazione ECM “Aspetti Molecolari di Prevenzione e Salute” Istituto Superiore di Sanità, Rome, Italy
From January to November 2016;
-2016 ITWIIN Conference Award Bologna. CNR, ISOF-Bologna, Italy.

BOOKS AND ARTICLES METRICS OVERVIEW SOURCE: WOS

ARTICLES 41

PUBLICATION IN A BOOK CHAPTER 3

H-Index: 15

Researcher ID: B-9579-2015

ORCID: <https://orcid.org/0000-0002-7163-3978>

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH

Good

Good

Good

DRIVING LICENCE(S)

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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Rome, 05.09.2022

Signature 

