

Curriculum vitae

INFORMAZIONI PERSONALI



Grimaldi Manuela

via Padre Paolo Manna, 33, 83100 Avellino (Italy)

(+39) 3478197763

manuela.grimaldi83@gmail.com

Sesso Femminile | Data di nascita 31/10/1983 | Nazionalità Italiana

TITOLO DI STUDIO

Chimica e Tecnologia Farmaceutiche

ISTRUZIONE E FORMAZIONE

1 GEN. 12–6 MAR. 15

Dottorato di Ricerca in Scienze Farmaceutiche

Università degli Studi di Salerno, Fisciano (Italy)

Professionale:

- NMR study of protein-ligand interaction
- Espressione genica in E.coli di proteine
- Studi di interazione proteina-ligandi mediante tecniche NMR

1 OTT. 07–23 LUG. 10

Scuola di Specializzazione in Farmacia Ospedaliera

Università degli Studi di Salerno, Fisciano (Italy)

1 OTT. 02–27 LUG. 07

Chimica e Tecnologia Farmaceutiche

Università degli Studi di Salerno, Fisciano (Italy)

Professionali

- Sintesi peptidica in fase solida
- Dicroismo Circolare
- NMR di peptidi

97–02

Liceo Scientifico

Liceo Scientifico P.S. Mancini, Avellino (Italy)

COMPETENZE PERSONALI

Lingua madre

italiano

Altre lingue

inglese

COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
Ascolto	Lettura	Interazione	Produzione orale	
B2	B2	B1	A2	B1

Livelli: A1 e A2: Utente base - B1 e B2: Utente autonomo - C1 e C2: Utente avanzato
Quadro Comune Europeo di Riferimento delle Lingue

Competenze comunicative - Ottime competenze relazionali acquisite durante la mia esperienza di gestione del gruppo di ricerca nel laboratorio di chimica farmaceutica dell'università di salerno.

Competenze organizzative e gestionali - Ottime capacità organizzative e gestionali di un laboratorio di chimica farmaceutica.
- Ottime capacità di gestione di gruppi di lavoro in laboratorio di ricerca.

Competenze professionali - Ottime competenze nella sintesi peptidica in fase solida.
- Ottime competenze nella purificazione di peptidi e proteine mediante differenti tecniche cromatografiche.
- Ottime competenze nell'analisi conformazionale di peptidi e proteine mediante tecniche di dicroismo circolare (CD) e risonanza magnetica nucleare (NMR).

Competenze informatiche - Ottima padronanza degli strumenti di Microsoft Office (testo, power point, excel).
- Buona padronanza del sistema operativo Linux.

Patente di guida B

ULTERIORI INFORMAZIONI

Pubblicazioni

- 1) Sublimi Saponetti M, **Grimaldi M**, Scrima M, Albonetti C, Nori SL, Cucolo A, Bobba F, D'Ursi AM. Aggregation of A β (25-35) on DOPC and DOPC/DHA Bilayers: An Atomic Force Microscopy Study. *PLoS One*. **2014** Dec 31;9(12).
- 2) Testa C, Scrima M, **Grimaldi M**, D'Ursi AM, Dirain NM, Lubin-Germain N, Singh A, Haskell-Luevano C, Chorev M, Rovero P, Papini AM. 1,4-Disubstituted-[1,2,3]triazolyl-containing analogs of MT-II - design, synthesis, conformational analysis, and biological activity. *J Med Chem*. **2014** Oct 27.
- 3) Scrima M, Lauro G, **Grimaldi M**, Di Marino S, Tosco A, Picardi P, Gazzero P, Riccio R, Novellino E, Bifulco M, Bifulco G, D'Ursi AM. Structural Evidence of N6-Isopentenyladenosine As a New Ligand of Farnesyl Pyrophosphate Synthase. *J. Med. Chem*. **2014** Sep. 15.
- 4) Scrima M, Di Marino S, **Grimaldi M**, Campana F, Vitiello G, Piotta SP, D'Errico G, D'Ursi AM. Structural features of the C8 antiviral peptide in a membrane-mimicking environment. *Biochim Biophys Acta*. **2014**; 1838(3): 1010-8.
- 5) Skjaerven L, Codutti L, Angelini A, **Grimaldi M**, Latek D, Monecke P, Creyer MK, Carlomagno T. Accounting for Conformational Variability in Protein-Ligand Docking with NMR-Guided Rescoring. *J Am Chem Soc*. **2013**; 17; 135(15):5819-27.
- 6) Scrima M, **Grimaldi M**, Di Marino S, Testa C, Rovero P, Papini AM, Chorev M, D'Ursi AM. Solvent independent conformational propensities of [1,2,3]triazolyl-bridged parathyroid hormone-related peptide-derived cyclo-nonapeptide analogues. *Biopolymers*. **2012**; 98(6):535-45.
- 7) Di Marino S, Scrima M, **Grimaldi M**, D'Errico G, Vitiello G, Sanguinetti M, De Rosa M, Soriente A, Novellino E, D'Ursi AM. Antifungal peptides at membrane interaction. *Eur J Med Chem*. **2012**; 51:154-62.
- 8) Vitiello G, **Grimaldi M**, D'Ursi AM, D'Errico G. The A β 5p β -breaker peptide regulates the A β (25-35) interaction with lipid bilayers through a cholesterol-mediated mechanism. *Biochem Biophys Res Commun*. **2012** Jan 6;417(1):88-92.
- 9) Merlino A, Vitiello G, **Grimaldi M**, Sica F, Busi E, Basosi R, D'Ursi AM, Fragneto G, Paduano L, D'Errico G. Destabilization of lipid membranes by a peptide derived from glycoprotein gp36 of feline immunodeficiency virus: a combined molecular dynamics/experimental study. *J Phys Chem B*. **2012** Jan 12;116(1):401-12.
- 10) **Grimaldi M**, De Rosa M, Di Marino S, Scrima M, Posteraro B, Sanguinetti M, Fadda G, Soriente A, D'Ursi AM, *Bioorg Med Chem*, Synthesis of new antifungal peptides selective against *Cryptococcus neoformans*, **2010** Nov 15;18(22):7985-90.

- 11) Scrima M, Di Marino S, **Grimaldi M**, Mastrogiacomo A, Novellino E, Bifulco M, D'Ursi AM, Binding of the hemopressin peptide to the cannabinoid CB1 receptor: structural insights. *Biochemistry*, **2010** Dec 14; 49(49):10449-57.
- 12) Vitiello G, **Grimaldi M**, Ramunno A, Ortona O, De Martino G, D'Ursi AM, D'Errico G, *J Pept Sci*, Interaction of a beta-sheet breaker peptide with lipid membranes, **2010** Feb;16(2):115-22.
- 13) **Grimaldi M**, Scrima M, Esposito C, Vitiello G, Ramunno A, Limongelli V, D'Errico G, Novellino E, D'Ursi AM, *Biochim Biophys Acta*, Membrane charge dependent states of the beta-amyloid fragment Abeta (16-35) with differently charged micelle aggregates, **2010** Mar;1798(3):660-71.
- 14) Campiglia P, Scrima M, **Grimaldi M**, Cioffi G, Bertamino A, Sala M, Aquino C, Gomez-Monterrey I, Grieco P, Novellino E, D'Ursi AM, *Chem Biol Drug Des*, A new series of 1,3-dihydro-imidazo[1,5-c]thiazole-5,7-dione derivatives: synthesis and interaction with Abeta(25-35) amyloid peptide, **2009** Sep;74(3):224-33.

Conferenze

Partecipazione a Scuole e Congressi:

- 30th European Peptide Symposium (30EPS), at Finlandia Hall, Helsinki, Finland on 31 August – 5 September 2008.
- Magnetic Resonance in the Life Sciences: What's New, NMR to lay the bricks for molecular systems biology, including the closing meeting of the Coordination Action for NMR in the Life Sciences (NMR-Life), December 14-18, 2008 – Vittoria Centro Congressi – Montecatini Terme, Italy.
- European Winter School on Physical Organic Chemistry 2009 (e-WISPOC 2009) held in Bressanone, Italy, from February 1st – February 6th 2009.
- Satellite Meeting of the XXXIX, National Congress on Magnetic Resonance, Bitter & Sweet Science, Palermo 24-25 Settembre 2009.
- European Winter School on Physical Organic Chemistry 2010 (e-WISPOC 2010) held in Bressanone, Italy, from January 31st – February 5th 2010.
- The 12th Naples Workshop on Bioactive Peptides, held in Napoli on June 4-7, 2010 jointly with the 2nd Italy-Korea Symposium on Antimicrobial Peptides.

Curriculum vitae

PERSONAL INFORMATION

Manuela Grimaldi



 via Padre Paolo Manna, 33, 83100 Avellino (Italy)

 (+39) 3478197763

 manuela.grimaldi83@gmail.com

Sex Female | Date of birth 31/10/1983 | Nationality Italian

STUDIES APPLIED FOR

Chemistry and Pharmaceutical Technology

EDUCATION AND TRAINING

1 Jan 2012–6 Mar 2015

PhD in Pharmaceutical Science

University of Salerno, Fisciano (Italy)

- NMR study of protein-ligand interaction

- Gene expression of protein in E.coli

1 Oct 2007–23 Jul 2010

Specialization in Hospital Pharmacy

University of Salerno, Fisciano (Italy)

1 Oct 2002–27 Jul 2007

Chemistry and Pharmaceutical Technology

University of Salerno, Fisciano (Italy)

- Solid Phase Peptide Synthesis

- Dichroism Circular

- NMR of peptide and protein

1997–2002

High School Science

Liceo Scientifico P.S. Mancini, Avellino (Italy)

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	A2	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- Excellent interpersonal skills acquired during my management experience of the research group in

the laboratory of medicinal chemistry at the University of Salerno.

Organisational / managerial skills

- Excellent organizational skills and management of a laboratory of medicinal chemistry.
- Excellent management skills of working groups in the research laboratory.

Job-related skills

- Excellent skills in peptide synthesis in the solid phase.
- Excellent skills in the purification of peptides and proteins by different chromatographic techniques.
- Excellent skills conformational analysis of peptides and proteins by means of circular dichroism (CD) and nuclear magnetic resonance (NMR).

Computer skills

- Excellent knowledge of Microsoft Office tools (text, power point, excel).
- Good knowledge of the Linux operating system.

Driving licence B

ADDITIONAL INFORMATION

Publications

- 1) Sublimi Saponetti M, **Grimaldi M**, Scrima M, Albonetti C, Nori SL, Cucolo A, Bobba F, D'Ursi AM. Aggregation of A β (25-35) on DOPC and DOPC/DHA Bilayers: An Atomic Force Microscopy Study. *PLoS One*. **2014** Dec 31;9(12).
- 2) Testa C, Scrima M, **Grimaldi M**, D'Ursi AM, Dirain NM, Lubin-Germain N, Singh A, Haskell-Luevano C, Chorev M, Rovero P, Papini AM. 1,4-Disubstituted-[1,2,3]triazolyl-containing analogs of MT-II - design, synthesis, conformational analysis, and biological activity. *J Med Chem*. **2014** Oct 27.
- 3) Scrima M, Lauro G, **Grimaldi M**, Di Marino S, Tosco A, Picardi P, Gazzero P, Riccio R, Novellino E, Bifulco M, Bifulco G, D'Ursi AM. Structural Evidence of N6-Isopentenyladenosine As a New Ligand of Farnesyl Pyrophosphate Synthase. *J. Med. Chem*. **2014** Sep. 15.
- 4) Scrima M, Di Marino S, **Grimaldi M**, Campana F, Vitiello G, Piotta SP, D'Errico G, D'Ursi AM. Structural features of the C8 antiviral peptide in a membrane-mimicking environment. *Biochim Biophys Acta*. **2014**; 1838(3): 1010-8.
- 5) Skjaerven L, Codutti L, Angelini A, **Grimaldi M**, Latek D, Monecke P, Creyer MK, Carlomagno T. Accounting for Conformational Variability in Protein-Ligand Docking with NMR-Guided Rescoring. *J Am Chem Soc*. **2013**; 17; 135(15):5819-27.
- 6) Scrima M, **Grimaldi M**, Di Marino S, Testa C, Rovero P, Papini AM, Chorev M, D'Ursi AM. Solvent independent conformational propensities of [1,2,3]triazolyl-bridged parathyroid hormone-related peptide-derived cyclo-nonapeptide analogues. *Biopolymers*. **2012**; 98(6):535-45.
- 7) Di Marino S, Scrima M, **Grimaldi M**, D'Errico G, Vitiello G, Sanguinetti M, De Rosa M, Soriente A, Novellino E, D'Ursi AM. Antifungal peptides at membrane interaction. *Eur J Med Chem*. **2012**; 51:154-62.
- 8) Vitiello G, **Grimaldi M**, D'Ursi AM, D'Errico G. The A β 5p β -breaker peptide regulates the A β (25-35) interaction with lipid bilayers through a cholesterol-mediated mechanism. *Biochem Biophys Res Commun*. **2012** Jan 6;417(1):88-92.
- 9) Merlino A, Vitiello G, **Grimaldi M**, Sica F, Busi E, Basosi R, D'Ursi AM, Fragneto G, Paduano L, D'Errico G. Destabilization of lipid membranes by a peptide derived from glycoprotein gp36 of feline immunodeficiency virus: a combined molecular dynamics/experimental study. *J Phys Chem B*. **2012** Jan 12;116(1):401-12.
- 10) **Grimaldi M**, De Rosa M, Di Marino S, Scrima M, Posteraro B, Sanguinetti M, Fadda G, Soriente A, D'Ursi AM, *Bioorg Med Chem*, Synthesis of new antifungal peptides selective against *Cryptococcus neoformans*, **2010** Nov 15;18(22):7985-90.

- 11) Scrima M, Di Marino S, **Grimaldi M**, Mastrogiacomo A, Novellino E, Bifulco M, D'Ursi AM, Binding of the hemopressin peptide to the cannabinoid CB1 receptor: structural insights. *Biochemistry*, **2010** Dec 14; 49(49):10449-57.
- 12) Vitiello G, **Grimaldi M**, Ramunno A, Ortona O, De Martino G, D'Ursi AM, D'Errico G, *J Pept Sci*, Interaction of a beta-sheet breaker peptide with lipid membranes, **2010** Feb;16(2):115-22.
- 13) **Grimaldi M**, Scrima M, Esposito C, Vitiello G, Ramunno A, Limongelli V, D'Errico G, Novellino E, D'Ursi AM, *Biochim Biophys Acta*, Membrane charge dependent states of the beta-amyloid fragment A β (16-35) with differently charged micelle aggregates, **2010** Mar;1798(3):660-71.
- 14) Campiglia P, Scrima M, **Grimaldi M**, Cioffi G, Bertamino A, Sala M, Aquino C, Gomez-Monterrey I, Grieco P, Novellino E, D'Ursi AM, *Chem Biol Drug Des*, A new series of 1,3-dihydro-imidazo[1,5-c]thiazole-5,7-dione derivatives: synthesis and interaction with A β (25-35) amyloid peptide, **2009** Sep;74(3):224-33.

Conferences

Partecipazione at School and Congress:

- 30th European Peptide Symposium (30EPS), at Finlandia Hall, Helsinki, Finland on 31 August – 5 September 2008.
- Magnetic Resonance in the Life Sciences: What's New, NMR to lay the bricks for molecular systems biology, including the closing meeting of the Coordination Action for NMR in the Life Sciences (NMR-Life), December 14-18, 2008 – Vittoria Centro Congressi – Montecatini Terme, Italy.
- European Winter School on Physical Organic Chemistry 2009 (e-WISPOC 2009) held in Bressanone, Italy, from February 1st – February 6th 2009.
- Satellite Meeting of the XXXIX, National Congress on Magnetic Resonance, Bitter & Sweet Science, Palermo 24-25 Settembre 2009.
- European Winter School on Physical Organic Chemistry 2010 (e-WISPOC 2010) held in Bressanone, Italy, from January 31st – February 5th 2010.
- The 12th Naples Workshop on Bioactive Peptides, held in Napoli on June 4-7, 2010 jointly with the 2nd Italy-Korea Symposium on Antimicrobial Peptides.