

CURRICULUM VITAE

Dr. MARIA MONTI



Date and place of birth: 23 June 1973, Naples

Home Address: Via Silio Italico 33, 80124, Naples (Italy)

Work Address: Department of Chemical Sciences, Via Cinthia 4, 80125, Naples (Italy) and

CEINGE Biotecnologie Avanzate, Via G. Salvatore 486, Naples

Office phone numbers: +39 081 3737919 – 674414

Mobile: +39 3407005062

e-mail address: montimar@unina.it

1997: Degree in Chemistry, specialty in Biological Chemistry, University “Federico II” of Naples

1998: Post-graduate fellow at the University “Federico II” of Naples (Department of Cell Pathology and Biology) and CISESMA (CNR) in Naples.

1999 - 2000 Research Assistant at the Parco Scientifico e Tecnologico dell'Area Metropolitana di Napoli, section of Medical Biotechnologies, CEINGE Advanced Biotechnologies.

2000-2003: PhD student in Biochemistry and Molecular Biology at the Department of Organic Chemistry, University “Federico II” of Naples.

2003 Visiting Scientist at the Department of Biomolecular Mass Spectrometry, Utrecht University, The Netherlands.

2004: PhD in Biochemistry and Molecular Biology.

2003-2006: Research Assistant at the CEINGE Advanced Biotechnologies.

2006: Permanent position as Research Assistant at Department of Organic Chemistry and Biochemistry, today Department of Chemical Science, University of Naples "Federico II".

The scientific activity of Dr. Maria Monti has initially concerned the structural characterization of proteins using classical biochemical procedures in combination with mass spectrometry. A strategy based on the combination of limited proteolysis experiments with advanced mass spectrometric methodologies was employed in the conformational investigation of proteins and protein complexes, with a special focus for amyloidogenic proteins involved in aggregation mechanisms.

In the last period, Dr. Monti's scientific activity has been focused on functional proteomics studies addressed to the elucidation of cell processes at molecular level by employing strategies based on both immunoprecipitation and/or affinity purification approaches followed by mass spectrometry analysis for the isolation and identification of multiprotein-complexes. This strategy has been successfully employed for the investigation of molecular mechanisms impaired in several pathological contexts, with specific regards to amyloid diseases and carcinogenesis, by comparing how a specific protein interactome changes, moving from physiological to pathological conditions.

Nowadays, Dr. Monti's research activity is also focused on the investigation of molecular basis of the Huntington's Disease, by studying the role exerted by the metalloproteases ADAM10 in the onset of neurodegeneration.

FUNDED GRANTS

2012: a three years grant, funded by Italian Ministry of Education, University and Research (**PRIN2012**) entitled “A molecular and functional study of ADAM10 at the Huntington's Disease synapse”. Role: Responsible of Operative Unit

2012: a three years grant, funded by Ministry of Health for Young Researches entitled “Dissecting the TRIM8 role in the pathogenesis of glioma and therapy”. Role: Responsible of Operative Unit

LAST FIVE YEARS PUBLICATIONS

1. Hoogenraad CC, Popa I, Futai K, Sanchez-Martinez E, Wulf PS, van Vlijmen T, Dortland BR, Oorschot V, Govers R, **Monti M**, Heck AJ, Sheng M, Klumperman J, Rehmann H, Jaarsma D, Kapitein LC, van der Sluijs P. Neuron specific Rab4 effector GRASP-1 coordinates membrane specialization and maturation of recycling endosomes.

PLoS Biol. 2010, 8(1):e1000283

IF: 12.916

2. Monti DM, Guglielmi F, **Monti M**, Cozzolino F, Torrassa S, Relini A, Pucci P, Arciello A, Piccoli R. Effects of a lipid environment on the fibrillogenic pathway of the N-terminal polypeptide of human apolipoprotein A-I, responsible for in vivo amyloid fibril formation.

Eur Biophys J. 2010; 39(9):1289-99

IF: 2.387

3. Zanca C, Cozzolino F, Quintavalle C, Di Costanzo S, Ricci-Vitiani L, Santoriello M, **Monti M**, Pucci P, Condorelli G.

PED interacts with Rac1 and regulates cell migration/invasion processes in human non-small cell lung cancer cells.

J Cell Physiol. 2010; 225(1):63-72

IF: 4.586

4. Landriscina M, Laudiero G, Maddalena F, Amoroso MR, Piscazzi A, Cozzolino F, **Monti M**, Garbi C, Fersini A, Pucci P, Esposito F.

Mitochondrial Chaperone Trap1 and the Calcium Binding Protein Sorcin Interact and Protect Cells against Apoptosis Induced by Antitumoral Agents.

Cancer Res. 2010 ;70(16):6577-86

IF: 7.543

5. Troise F, **Monti M**, Merlino A, Cozzolino F, Fedele C, Krauss IR, Sica F, Pucci P, D'Alessio G, De Lorenzo C.

A novel ErbB2 epitope targeted by human antitumor immunoagents.

FEBS J. 2011, 278(7):1156-66

IF: 3.042

6. Raimondi S., Barbarini N., Mangione P., Esposito G., Ricagno S., Bolognesi M., Zorzoli I., Marchese L., Soria C., Bellazzi R., **Monti M.**, Stoppini M., Stefanelli M., Magni P. and Bellotti V.
The two tryptophans of beta2-microglobulin have distinct roles in function and folding and might represent two independent responses to evolutionary pressure
BMC Evol Biol. 2011, 10;11:159 **IF: 4.294**
7. Falabella P, Riviello L, Pascale M, Di Lelio I, Tettamanti G, Grimaldi A, Iannone C, **Monti M**, Pucci P, Tamburro AM, Deeguileor M, Gigliotti S, Pennacchio F.
Functional amyloids in insect immune response.
Insect Biochem Mol Biol. 2012, 42(3):203-211. **IF: 4.018**
8. Monti DM, Gaetano SD, Giudice RD, Giangrande C, Amoresano A, **Monti M**, Arciello A, Piccoli R.
Apolipoprotein A-I amyloidogenic variant L174S, expressed and isolated from stably transfected mammalian cells, is associated with fatty acids.
Amyloid. 2012; 19(1):21-7. **IF: 1.91**
9. Fusco C, Micale L, Egorov M, **Monti M**, D'Addetta EV, Augello B, Cozzolino F, Calcagnì A, Fontana A, Polishchuk RS, Didelot G, Reymond A, Pucci P, Merla G.
The E3-Ubiquitin Ligase TRIM50 Interacts with HDAC6 and p62, and Promotes the Sequestration and Clearance of Ubiquitinated Proteins into the Aggresome.
PLoS One. 2012;7(7):e40440. Epub 2012 Jul 9. **IF: 4.092**
10. Marchiò S., Soster M., Cardaci S., Muratore A., Bartolini A., Barone V., Ribero D., **Monti M.**, Bovino P., Sun J., Giavazzi R., Asioli S., Cassoni P., Capussotti L., Pucci P., Bugatti A., Rusnati M., Pasqualini R., Arap W., Bussolino F.
A complex of $\alpha 6$ integrin and E-cadherin drives liver metastasis of colorectal cancer cells through hepatic angiopoietin-like 6.
EMBO Mol Med, 2012;4(11):1156-75. **IF: 10.3**
11. Giordano S., Amato F., Elce A., **Monti M.**, Iannone C., Pucci P., Seia M., Angioni A., Zarrilli F., Castaldo G., Tomaiuolo R.
Molecular and functional analysis of the large 5' promoter region of CFTR gene revealed pathogenic mutations in CF and CFTR-related disorders.
J Mol Diagn., 2013, 15(3):331-40. doi: 10.1016/j.jmoldx.2013.01.001 **IF: 3.952**
12. Marucci A., Cozzolino F., Dimatteo C., **Monti M.**, Pucci P., Trischitta V., Di Paola R.
Role of GALNT2 in the modulation of ENPP1 expression, and insulin signaling and action: GALNT2: a novel modulator of insulin signaling.
Biochim Biophys Acta. 2013, 1833(6):1388-95. doi: 10.1016/j.bbamcr.2013.02.032. **IF: 4.91**

13. D'Angelo G, Uemura T, Chuang CC, Polishchuk E, Santoro M, Ohvo-Rekilä H, Sato T, Di Tullio G, Varriale A, D'Auria S, Daniele T, Capuani F, Johannes L, Mattjus P, **Monti M**, Pucci P, Williams RL, Burke JE, Platt FM, Harada A, De Matteis MA.

Vesicular and non-vesicular transport feed distinct glycosylation pathways in the Golgi.

Nature. 2013;501(7465):116-20. doi: 10.1038/nature12423.

IF: 38.597

14. Fusco C, Micale L, Augello B, Mandriani B, Pellico MT, De Nittis P, Calcagnì A, **Monti M**, Cozzolino F, Pucci P, Merla G.

HDAC6 mediates the acetylation of TRIM50.

Cell Signal. 2014;26(2):363-9. doi: 10.1016/j.cellsig.2013.11.036.

IF: 4.304

15. Mangione PP, Porcari R, Gillmore JD, Pucci P, **Monti M**, Porcari M, Giorgetti S, Marchese L, Raimondi S, Serpell LC, Chen W, Relini A, Marcoux J, Clatworthy IR, Taylor GW, Tennent GA, Robinson CV, Hawkins PN, Stoppini M, Wood SP, Pepys MB, Bellotti V. Proteolytic cleavage of Ser52Pro variant transthyretin triggers its amyloid fibrillogenesis.

Proc Natl Acad Sci U S A. 2014;111(4):1539-44. doi: 10.1073/pnas.1317488111

IF: 9.737

16. Quintavalle C, Costanzo S, Zanca C, Tasset I, Fraldi A, Incoronato M, Mirabelli P, **Monti M**, Ballabio A, Pucci P, Cuervo AM, Condorelli A.

Phosphorylation-Regulated Degradation of the Tumor-Suppressor Form of PED by Chaperone-Mediated Autophagy in Lung Cancer Cells.

J Cell Physiol. 2014. doi: 10.1002/jcp.24569

IF: 4.218

A handwritten signature in black ink, appearing to read 'Monti M', is centered at the bottom of the page. The signature is written in a cursive, flowing style.