

## Giovanni Chiappetta



Age 41  
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Biological Mass Spectrometry and Proteomics  
**ESPCI ParisTech CNRS USR 3149**  
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<http://www.mass-spec.espci.fr/>

**ACTUAL POSITION:** Research Engineer-CNRS

**AREA OF INTEREST:** mass spectrometry, protein chemistry, PTMs, proteomics

### WORK EXPERIENCE

**Since 12/2010:** Research Engineer-CNRS

*Principal project : Development of analytical and statistical tools for the proteomics analysis of protein PTMs*

**03/2009-12/2010 :** Post-doc, Commissariat à l'Energie Atomique- Saclay

*Principal project : Cell redox regulation at proteomic scale*

### EDUCATION

**2018** HDR (Habilitation à Diriger des Recherches) in Chemistry, Sorbonne University, *Quantitative Analysis of Protein Post-Translational Modifications : an Analytical Challenge*

**2009** Ph.D co-tutorship between Biotechnologies Faculty of University of Naples "Federico II", Italy and PhD school iViv. UPMC, University of Paris, France

*Title of thesis: New strategies in proteomics*

**2005** Master in Chemistry, University of Naples "Federico II", Naples, Italy *note: 110/110*

*Title of thesis: Identification of protein tyrosine nitration by mass spectrometry*

### LANGUAGES

Italian (mother language), French, English

### TEACHING

**2012-2019** 70 hours of lessons of Analytical Chemistry for engineers at ESPCI Paris

**Since 2010** Co-Direction of 5 PhD thesis

**Since 2009** Direction of 10 Master's degree thesis

**Since 2008** 150 hours of lessons of mass spectrometry fundamentals at CNRS formation program

### ACCADEMIC RESPONSABILITIES

**2020** Jury member XXXII PhD cycle of Chemistry faculty at University of Naples "Federico II"

**2019** Jury member of Ndiaye M. thesis ED388 Physical Chemistry and Analytical Chemistry Sorbonne University

**2019** Member of PhD monitoring committee ED388 Sorbonne University

### RESEARCH MANAGEMENT

#### RESEARCH OF FUNDINGS

**2015** Redaction and management ANR -CE13-0016 NovProtMig funding 450k€

**2013** Redaction and co-management AIRC (Italy) IG12962 funding 200k€

**2012** Redaction and management ANR-12-BSV2-0012 eRRED funding 450k€

**2012** Redaction and management DiM Analytics PhD fellowship funding 100 k€

#### SCIENTIFIC ANIMATION

**Since 2018** Editorial Board Member of Current proteomics journal

**Since 2013** Peer-Reviewing activity (*Anal.Chem, J.Proteome.Res, Food Chem....*)

**2010-2019** Member of TGE-FT-ICR federation direction committee

## **SCIENTIFIC PRODUCTION**

**h index** : 11

21 peer reviewed papers

5 oral communications at congress

1 Patent

### **Latest 10 publications in the last 5 years**

Barraud N, Létoffé S, Beloin C, Vinh J, Chiappetta G, Ghigo JM. Lifestyle-specific S-nitrosylation of protein cysteine thiols regulates Escherichia coli biofilm formation and resistance to oxidative stress. NPJ Biofilms Microbiomes. 2021 Apr 13;7(1):34. doi: 10.1038/s41522-021-00203-w.

Bierla K, Chiappetta G, Vinh J, Lobinski R, Szpunar J. Potential of Fourier Transform Mass Spectrometry (Orbitrap and Ion Cyclotron Resonance) for Speciation of the Selenium Metabolome in Selenium-Rich Yeast Front Chem . 2020 Dec 9;8:612387. doi: 10.3389/fchem.2020.612387.

Ndiaye MM, Ta HP, Chiappetta G, Vinh J. On-Chip Sample Preparation Using a ChipFilter Coupled to NanoLC-MS/MS for Bottom-Up Proteomics. J Proteome Res. 2020 Jul 2;19(7):2654-2663. doi: 10.1021/acs.jproteome.9b00832.

Faienza F, Lambrugh M, Rizza S, Pecorari C, Giglio P, Salamanca Vioria J, Allega MF, Chiappetta G, Vinh J, Pacello F, Battistoni A, Rasola A, Papaleo E, Filomeni G. S-nitrosylation affects TRAP1 structure and ATPase activity and modulates cell response to apoptotic stimuli Biochem Pharmacol. 2020 Jun;176:113869. doi: 10.1016/j.bcp.2020.113869.

Ouerhani A, Chiappetta G, Souiai O, Mahjoubi H, Vinh J. Investigation of serum proteome homeostasis during radiation therapy by a quantitative proteomics approach. Biosci Rep. 2019 Jul 29;39(7):BSR20182319. doi: 10.1042/BSR20182319

Galdiero F, Bello AM, Spina A, Capiluongo A, Liuu S, De Marco M, Rosati A, Capunzo M, Napolitano M, Vuttariello E, Monaco M, Califano D, Turco MC, Chiappetta G, Vinh J, Chiappetta G. Identification of BAG3 target proteins in anaplastic thyroid cancer cells by proteomic analysis. Oncotarget. 2018 Jan 3;9(8):8016-8026. doi: 10.18632/oncotarget.23858

Pimenta FM, Chiappetta G, Le Saux T, Vinh J, Jullien L, Gautier A. Chromophore Renewal and Fluorogen-Binding Tags: A Match Made to Last. Sci Rep. 2017 Sep 26;7(1):12316. doi: 10.1038/s41598-017-12400-9.

Sotton B, Paris A, Le Manach S, Blond A, Lacroix G, Millot A, Duval C, Huet H, Qiao Q, Labrut S, Chiappetta G, Vinh J, Catherine A, Marie B.

Metabolic changes in Medaka fish induced by cyanobacterial exposures in mesocosms: an integrative approach combining proteomic and metabolomic analyses. Sci Rep. 2017 Jun 22;7(1):4051. doi: 10.1038/s41598-017-04423-z.

Hassouna R, Grouselle D, Chiappetta G, Lipecka J, Fiquet O, Tomasetto C, Vinh J, Epelbaum J, Tolle V. Combination of Selective Immunoassays and Mass Spectrometry to Characterize Preproghrelin-Derived Peptides in Mouse Tissues. Front Neurosci. 2017 Apr 20;11:211. doi: 10.3389/fnins.2017.00211

Shakir S, Vinh J, Chiappetta G. Quantitative analysis of the cysteine redoxome by iodoacetyl tandem mass tags. Anal Bioanal Chem. 2017 Jun;409(15):3821-3830. doi: 10.1007/s00216-017-0326-6.

## **AWARDS**

- 2019** Analyst Poster Prize delivered by the Royal Society of Chemistry, at the 1st European Top Down-Proteomics Symposium.
- 2019** French National Qualification to Assistant Professor in Biochemistry and Molecular Biology (2019-2023)