

# Caterina Gabriele, Ph.D.

Ph. +393290273279 • cgabriele86@gmail.com • linkedin.com/in/Caterina Gabriele

## EDUCATION • PROFESSIONAL DEVELOPMENT

**December 2017- December 2018**

**Term contract worker** in "Supporto alla ricerca mediante l'esecuzione di analisi proteomica mediante LC-MS/MS su campioni di latte in polvere per vitelli".

**June 2017-May 2018**

**Term contract worker** in "Supporto all'attività di ricerca svolta nell'ambito del progetto di ricerca di Biochica e Biologia Molecolare Avanzata"

**February 2016- January 2017**

**Term contract worker:** "Analisi del profilo glicoproteico di cellule staminali pluripotenti indotte mediante analisi spettrometrica di massa"

**August 1<sup>st</sup>-September 1<sup>st</sup>, 2015**

**Term contract worker:**"Cellule staminali pluripotenti indotte: aspetti biologici e applicazioni nella clinica e nella ricerca"

**PhD in Clinical and Experimental Biotechnology in Urology**

**2015**

*Ph.D. Thesis: Glycoprotein Profile in Prostate Cancer*

**Master degree, 9/S - Class of second level degree in Medical Veterinary and Pharmaceutical Biotechnologies, University "Magna Graecia of Catanzaro"**

**2008-2011**

- *Quantitative Proteomic Analysis applied on metastatic melanoma cell line.* 110/110 cum laude

**Bachelor degree, 9/S University "Magna Graecia of Catanzaro"**

**2005-2008**

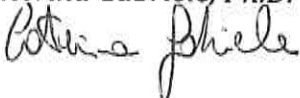
- *Involvement of the protein of the Mismatch Repair MLH1 in melanoma cells treated with UV radiations*

110/110 cum laude

## SPECIALIZED TRAINING

- |      |   |                                  |
|------|---|----------------------------------|
| i.   | Clinical Day, pre-congress HUPO   | October 5 <sup>th</sup> , 2014   |
| ii.  | Stem Cells: From Bench to Bedside   | June 7 <sup>th</sup> , 2014      |
| iii. | Q Exactive Biotech Operations   | March 11-13 <sup>th</sup> , 2013 |
| iv.  | Advanced Diagnostics@BTM  | December 18 <sup>th</sup> , 2012 |
| v.   | Morte cardiaca improvvisa. Un approccio multidisciplinare dalla morfologia alla biologia molecolare | 12 <sup>th</sup> January, 2010   |

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(Sudden cardiac death. A multidisciplinary approach from morphology to molecular biology)

- vi. I giovani e le sostanze di abuso (Youth and addictive drugs)  
vii. Biotecnologie e Medicina (Biotechnology and Medicine)

May 14<sup>th</sup>, 2009

June 10<sup>th</sup>, 2009

#### COMPUTER SKILLS

Office per Windows (Word, Excel, Powerpoint, Access ) and Mac (iWork11, Pages, Keynote, Numbers), Papers, Mendeley, Photoshop, Cytoscape, Proteome Discoverer, Skyline, Graphpad, EndNote.

#### PERSONAL SKILLS AND COMPETENCES

Able to work efficiently on many projects under minimal supervision, with people of any nationality, and with attention to details. Excellent organization, planning and problem solving skills, high ability to travel worldwide.

- Precise and reliable scientist with experience in glycoproteomics and biomarker discovery (1 International peer-reviewed publications, 4 international conferences).

Languages: Fluent in English written and spoken.

Computer skills: Strong proficiency in Computer Science.

Driving License (B, accepted in EU).

Completely open to relocation and working travels.

#### CAREER HIGHLIGHTS

##### HUPO Conference Madrid

October 5-8<sup>th</sup>, 2014

Poster Presentation "N-linked Glycoprotein profiling for biomarker discovery in colorectal cancer".

##### SIBBM Conference Trento

June 13<sup>th</sup>, 2014

Poster Presentation "N-linked Glycoprotein profiling for biomarker discovery in colorectal cancer".

##### HUPO Conference Yokohama

September 14-18<sup>th</sup>, 2013

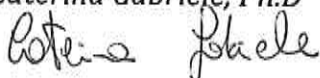
Poster Presentation " N-linked glycoprotein profiling of prostate cancer tissue by 18O labeling and high resolution mass spectrometry";

Poster Presentation "N-linked Glycoprotein Profiling for Colorectal Cancer Biomarker Discovery using High Resolution Quadrupole-Orbitrap Mass Spectrometry and 18O Isotopic Labeling".

##### SCI Conference Palermo

December 2<sup>nd</sup>-3<sup>rd</sup>, 2010

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Poster Presentation "Indagine sperimentale per la messa a punto di un intervento di bonifica per l'ex discarica rsu di tufolo-farina di Crotone". (Experimental investigation for the development of a remediation for the former landfill of RSU Tufolo-flour Crotone)

Poster Presentation "Utilità della determinazione quantitative del topiramato in FID". (Usefulness of the quantitative determination of topiramate in FID)

## AREAS OF STRENGTH

Molecular Biology:	Western Blotting
Cellular Biology:	Stabilized cell cultures.
Proteomics:	Protein extraction, digestion and purification from various samples (ie tissues, cells, serum). Different protein (SDS-PAGE, OFFgel) and peptide (strong cation exchange chromatography, high-pH reversed phase chromatography) fractionation techniques. Glycoprotein enrichment techniques (Solid phase extraction of N-linked glycopeptides, TiO <sub>2</sub> enrichment).
Mass spectrometry:	Sample preparation and purification, in-gel digestion, in-solution digestion, Filter Aided Sample Preparation. Peptide labeling methods ( <sup>18</sup> O labeling, dimethyl labeling) for relative quantification. Qualitative and quantitative analysis, various chromatographic separation methods. Shotgun proteomics, with relative data analysis on bioinformatic tools such as Proteome Discoverer, String, Cytoscape. Direct working experience on Q- Exactive (data independent analysis and data dependent analysis). Use of Skyline for targeted proteomics data analysis.

## Peer-reviewed Publications

Gabriele C, Cantiello F, Nicastrì A, Crocerossa F, Russo GI, Cicione A, Vartolomei MD, Ferro M, Morgia G, Lucarelli G, Cuda G, Damiano R, Gaspari M. *High-throughput detection of low abundance sialylated glycoproteins in human serum by TiO<sub>2</sub> enrichment and targeted LC-MS/MS analysis: application to a prostate cancer sample set.* **Anal Bioanal Chem.** 2019 Jan;411(3):755-763. doi: 10.1007/s00216-018-1497-5. Epub 2018 Nov 28.

Broekman H, Knulst AC, den Hartog Jager CF, van Bilsen JH, Raymakers FM, Kruizinga AG, Gaspari M, Gabriele C, Bruijnzeel-Koomen CA, Houben GF, Verhoeckx KC. *Primary respiratory and food allergy to mealworm.* **J Allergy Clin Immunol.** 2017 Mar 5. pii: S0091-6749(17)30340-8. doi: 10.1016/j.jaci.2017.01.035.

Taverna D, Mignogna C, Gabriele C, Santise G, Donato G, Cuda G, Gaspari M. *An optimized procedure for on-tissue localized protein digestion and quantification using hydrogel discs and isobaric mass tags: analysis of cardiac myxoma.* **Anal Bioanal Chem.** 2017 Apr;409(11):2919-2930. doi: 10.1007/s00216-017-0237-6. Epub 2017 Feb 11.

Gaspari M, Chiesa L, Nicastrì A, Gabriele C, Harper V, Britti D, Cuda G, Procopio A. *Proteome Speciation by Mass Spectrometry: Characterization of Composite Protein Mixtures in Milk Replacers.* **Anal Chem.** 2016 Dec 6;88(23):11568-11574. Epub 2016 Nov 11.

Nicastrì A, Gaspari M, Sacco R, Elia L, Gabriele C, Romano R, Rizzuto A, Cuda G. *N-glycoprotein analysis discovers new up-regulated glycoproteins in colorectal cancer tissue.* **J Proteome Res.** 2014 Nov 7;13(11):4932-41. doi: 10.1021/pr500647y. Epub 2014 Oct 9. Impact Factor 5.001.

## REFERENCES

1. Giovanni Cuda, cuda@unicz.it
2. Marco Gaspari, gaspari@unicz.it

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