Europass Curriculum Vitae

Personal information

First name / Surname	**Clizia Chinello**
E-mail	Clizia.chinello@unimib.it
ORCID ID	https://orcid.org/0000-0002-7921-7768
Nationality	Italian
Date of birth	8-August-1979

Research profile

Her 19-year research experience was dedicated on the application of advanced mass spectrometry technologies in different fields, particularly to clinical proteomics/peptidomics in biological fluids, fresh-frozen and FFPE tissues (human/animal model), cell culture (primary lines, culture medium), *in vitro* models for regenerative medicine and microorganisms. Her current research interests are mainly focused on proteome alterations and the related post translational modification (glycosylation, phosphorylation) of renal and thyroid malignancies, and kidney diseases through quantitative LC-MS/MS based proteomic strategies..

Work experience

Dates	From 1st November 2008 to present
Occupation or position held	**Technical responsible of mass spectrometry laboratories belonging to Proteomics and metabolomics platform (D2 level)**
Main activities and responsibilities	Application and implementation of advanced mass spectrometry technologies in proteomics/peptidomics both in solid and liquid biological samples, including biofluids, tissues, cell cultures and microorganisms.
Name and address of employer	University of Milano Bicocca
Dates	From 20th May 2018 to 20th July 2018 and from 27th January 2020 to 11th February 2020
Occupation or position held	**Internship at Center of proteomics and metabolomics (CPM) of LUMC (Leiden University Medical Center)**
Main activities and responsibilities	Study of IgG glycosylation pattern in blood by LC-MS (Prof. Manfred Wuhrer, tutor: Dr Noortje De Haan)
Name and address of employer	LUMC (Leiden University Medical Center), NL
Dates	From 1st November 2005 to 31st October 2008
Occupation or position held	**Research activity as Ph.D. student at mass spectrometry lab of Clinical Proteomics Unit**
Main activities and responsibilities	Biomarker discovery in renal cell carcinoma using MS-based proteomics
Name and address of employer	University of Milano Bicocca
Dates	From 1st April 2008 to 31st October 2005
Occupation or position held	**Research fellowship in proteomics concerning with "Characterization of biomarkers with mass spectrometry techniques" at Department of Experimental Medicine**
Main activities and responsibilities	Characterization of biomarkers with mass spectrometry techniques
Name and address of employer	University of Milano Bicocca
Dates	From 1st November 2008 to present
Occupation or position held	**Post-graduate researcher in Biomedical Technologies, mass spectrometry division**
Main activities and responsibilities	Application of MALDI-MS based approach in proteomics

Name and address of employer	University of Milano Bicocca

Education and Training

Dates	From 1st August 2017 to 1st August 2028
Title of qualification awarded	**Italian National Scientific Habilitation (ASN) for Associate Professor in Clinical Biochemistry (BIO12)**
Dates	9th-16th April 2016
Title of qualification awarded	**Participation to Course NATO SPS ASI 984915**. Campora San Giovanni, Calabria (Italy)
Name and type of organisation providing education and training	NATO
Dates	From 1st November 2005 to 31st October 2008
Title of qualification awarded	**Ph.D. in Biomedical Technologies**
Principal subjects/occupational skills covered	Evaluation of Normal and RCC primary cell culture proteome: implementation of new methods to the classical proteomic approach
Name and type of organisation providing education and training	University of Milano Bicocca
Dates	4th-7th December 2006
Title of qualification awarded	**Participation to Theoretical and Practical Course on Proteome**
Name and type of organisation providing education and training	Università degli Studi della Tuscia, Viterbo (Italy)
Dates	12th-17th March 2006
Title of qualification awarded	**Participation to Course on Mass Spectrometry, University of Siena, Italy**
Name and type of organisation providing education and training	Italian Chemical Society, Mass Spectrometry division
Dates	From 1st February 2005 to 31st October 2005
Title of qualification awarded	**1st level Master in Bioinformatics**
Name and type of organisation providing education and training	University of Milano Bicocca
Level in national or international classification	Fist level Master
Dates	From 25th September 1998 to 20th July 2004
Title of qualification awarded	**Master degree in Biotechnology (110/110 cum laude)**
Name and type of organisation providing education and training	University of Milano

Personal skills and competences	•Characterization of proteome/peptidome leading to the discovery of potential biomarkers/targets of kidney and thyroid diseases by advanced integrated purification and nano LC-separation connected to TiMS-TOF MS, nanoLC ESI ion trap and UHR-TOF, and MALDI-TOF/TOF

•Implementation of advanced LC-MS based methods in clinical peptidomics/proteomics, such as MUDPIT, shotgun proteomics and label-free protein/peptide relative quantification of various solid and liquid biological samples, identification by LC-MS/MS platform of MALDI imaging protein targets (liquid extraction, Laser Captured Microdissected tissue, TMA), quali-quantitative evaluation of phospho-proteome

•MALDI-TOF imaging of tissue and profiling, biofluids protein profiling for the discovery of discriminant models, and microorganism MALDI profiling and typing

•Definition of IgG subclasses-specific glycopatterns in membranous nephropathy by LC MS/MS

Mother tongue(s) — **Italian**

Other language(s) — **English**

Self-assessment
European level (*)
Language

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B2	C1	B2	B2	B2

(*) Common European Framework of Reference for Languages

Social skills and competences

•*Assistant Teacher for*: -Chemistry and Propaedeutic Biochemistry at the Medicine and Surgery School, Faculty of Medicine, UNIMIB; Technological Science for Molecular Medicine (Proteomics) at the Medical Biotechnology, Faculty of Medicine, UNIMIB; -Biochemistry Methodologies at the Biotechnology school, Faculty of Biotechnology, UNIMIB; -Clinical and Molecular Biochemistry in the degree course for Biomedical laboratory Technicians, UNIMIB
•*Teacher for*: -MS Imaging School organized in collaboration with Mass Spectrometry Division (Italian Chemistry association); -proteomics laboratory for II level International Master in Nephropathology, Medicine and Surgery School, Faculty of Medicine, UNIMIB.)

Technical skills and competences

•*Optimal management of the following instrumentations*:

-Mass Spectrometers(from Bruker Daltonics):- Trapped ion mobility spectrometry (TIMS), ESI UHR-TOF (MaxisTM I version, Impact HD™), ESI Iontrap (Amazon ETD™, ESQUIRE 3000+™) e MALDI-TOF (RapifleXTM, Ultraflextreme™, Reflex IV™)

-micro- e nanoLC from Thermo sc. (Evosep One™ , Ultimate 3000+™, nanoRSLC™, EasynLC™)

-LC-MS interfaces from Bruker Daltonics (ESI, nanoESI, APCI, captive spray nanobooster™, ESI-nanosprayer™)
-integrated platforms from Bruker Daltonics (proteineer DP™ e Clinprotrobot™)

•*Optimization and/or implementation of sample preparation methods for MS based proteomics,* such as in gel, in solution and via FASP trypsinization, immunodepletion of biological fluids (column and off line methods), detergents removal, enrichment for phospho-and glico-peptides

•*Training*

2022   Training courses on TimsTOF-Flex™ and Evosep One™ on site
2017   Training courses on RapifleX™ on site
2014   Training courses on Impact HD™ on site
2012   Training courses on Amazon-ETD™ on site
2010   Training courses on MAXIS™, UltraflexEXTREME™, Imaging Mass Spectrometry and Proteinscape at Bruker Daltonics factory in Bremen (Germany)

Computer skills and competences	•Proficient in Windows environment and Microsoft office; •*Fully confident in the following software MS data*: -MS data elaboration (Compass™ software environment, Datanalysis™, Biotools™, FlexControl™, FlexAnalysis™, Clinprotools™, Fleximaging™);-label free quantitative proteomic platform (Peaks studio, Progenesis QI for Proteomics, Ideal-Q), glycomics tools (LaCytools, GlycoWorkbench), proteomics search engine (Mascot), functional annotation tools (IPA, Panther, DAVID, String)
Other skills and competences	2015-present: • Reviewer for various scientific journals (Journal of Proteomics & Bioinformatics; J Proteomics.; Front. Physiol.; Current proteomics, Plosone) 2008-present: • activities of service and consultancy on MS platform both for internal users and external companies and industries (proteomics, drugs, small molecules) • Collaboration in the writing and activities of national and international research projects 2007-present: • Active Participation to national and international congresses with oral and poster contributions • Confident in full maintenance of MS instrumentation on Bruker series and LC systems (Thermo sc) 2010-2012: • Active Member of COST action network Eurokup (Urine and Kidney Proteomics)(action BM0702)

Additional information

List of References
H-index:24; Documents by author: 74; Total citation: 1599 (from Scopus- 14th June 2023)

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2. PRINCIPI L, FERRINI E, CICCIMARRA R, PAGANI L, CHINELLO C, PREVITALI P, SMITH A, VILLETTI G, ZOBOLI M, RAVANETTI F, STELLARI FF, MAGNI F, PIGA I. Proteomic Fingerprint of Lung Fibrosis Progression and Response to Therapy in Bleomycin-Induced Mouse Model. Int J Mol Sci. 2023 Feb 23;24(5):4410. doi: 10.3390/ijms24054410. PMID: 36901840; PMCID: PMC10002924.
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