

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)	Tiziana Alberio
Address(es)	Via Maggiore 58, 21018, Osmate (VA), Italy
Telephone(s)	+39 3284664691
E-mail	tiziana.alberio@uninsubria.it (professional) tizianaalberio@gmail.com (personal)
Nationality	Italian
Date of birth	03/05/1981
Gender	Female

Education and training

From October 2007 to October 2010	PhD student in Neurobiology
Principal subjects/occupational skills covered	Two projects: " Biochemical pathways of Parkinson's disease pathogenesis" and "Parkinson's disease biomarker discovery in peripheral blood lymphocytes"
Name and type of organisation providing education and training	University of Insubria, Dept. Structural and Functional Biology. Advisor: Prof. Daniela Parolaro; Tutor: Prof. Mauro Fasano
13th December, 2006	M.Sc. in Biology Applied to Biomedical Research, Science Faculty of the University of Insubria, Varese (Italy), with the thesis " <i>Effects of isoform $\Delta Np73\beta$, overexpressed in an in vitro model of non-small cell lung carcinoma</i> ". Advisors: Prof. E. Monti, Dr. M. Broggin - Final mark: 110/110 summa cum laude and with honors ("Excellence Award")
Name and type of organisation providing education and training	Science Faculty of the University of Insubria, Varese (Italy).
18th November, 2004	B.Sc. in Biology, Science Faculty of the University of Insubria, Varese (Italy), with the thesis "Analysis of APOBEC3G and APOBEC3F expression: potentially protective genes against HIV infection" Advisors: Prof. D. Parolaro, Dr. M. Biasin -Final mark: 110/110 summa cum laude and with honors ("Excellence Award")
Name and type of organisation providing education and training	Science Faculty of the University of Insubria, Varese (Italy).
July, 2000	High School degree, Language high school "Daniele Crespi" of Busto Arsizio (Italy) - Final mark 100/100
SPECIAL COURSES ATTENDED	4th EU Summer School in Proteomic Basics "High Throughput Data Analysis and Statistics" Bressanone, Italy, August 1-7, 2010

Work experience

Dates	From May 2013 to date
Occupation or position held	Short-track Assistant Professor
Main activities and responsibilities	Coordination of research projects on neurodegenerative mechanisms and biomarker validation in Parkinson's disease.
Name and address of employer	University of Insubria, Department of Theoretical and Applied Sciences, via Manara, 7, I-21052 Busto Arsizio, Italy
Dates	Academic year 2014/2015
Occupation or position held	Teaching assistant (Biochemical methods)
Main activities and responsibilities	Responsible of practical activities
Name and address of employer	University of Insubria, via Dunant, Varese, Italy
Dates	Academic year 2013/2014
Occupation or position held	Lecturer of two thematic courses "Parkinson's Disease" and "Systems Biology" for the Neurobiology PhD program.
Main activities and responsibilities	Responsible of the courses.
Name and address of employer	University of Insubria, Department of Theoretical and Applied Sciences, via Manara, 7, I-21052 Busto Arsizio, Italy
Dates	Academic years 2011/2012, 2012/2013, 2013/2014
Occupation or position held	Teaching assistant (Bioinformatics laboratory)
Main activities and responsibilities	Assist students during database searches and sequence alignment exercises
Name and address of employer	University of Insubria, via Monte Generoso, Varese, Italy
Dates	July 2013
Occupation or position held	Lecturer of the courses "Bioinformatics approach" (entry level) and "Introduction to the Systems Biology"
Name and address of employer	Scuola di Bioinformatica 2013, via Alberto da Giussano 12, I-21052 Busto Arsizio, Italy
Dates	From April 2011 to May 2013
Occupation or position held	Research associate (recipient of a postdoctoral research contract (UNIRE "Accordo per lo sviluppo Capitale Umano nel Sistema Universitario Lombardo") from Regione Lombardia).
Main activities and responsibilities	Coordination of research projects on mitochondrial proteomics and biomarker discovery in Parkinson's disease.
Name and address of employer	University of Insubria, Dept. of Structural & Functional Biology, via Alberto da Giussano 12, I-21052 Busto Arsizio, Italy
Dates	2011
Occupation or position held	Teacher of the course "Systems Biology: statistics, proteomics, microarrays"
Name and address of employer	Scuola di Bioinformatica, organized by "Fondazione per le Biotecnologie", via Nizza 52, I-10126 Turin
Dates	Academic year 2010/2011
Occupation or position held	Contract Lecturer (General biochemistry laboratory and the Biochemistry module of the "Physiopathology of the immune system" course)
Main activities and responsibilities	Responsible of the courses
Name and address of employer	University of Insubria, Dept. of Structural & Functional Biology, via Alberto da Giussano 12, I-21052 Busto Arsizio, Italy
Dates	From October 2007 to October 2010
Occupation or position held	PhD resident
Main activities and responsibilities	Supervision of 1st level and 2nd level students. Activities: setup of cell cultures; two-dimensional electrophoresis; image analysis; bioinformatics; lymphocyte isolation from human blood; supervision to students' report writing; contribution to grant applications

Name and address of employer	University of Insubria, Dept. Structural and Functional Biology; Laboratory of Biochemistry and functional Proteomics. Advisor: Prof. Daniela Parolaro; Tutor: Prof. Mauro Fasano.
Dates	2008 (October); 2009 (May and October); 2010 (May)
Occupation or position held	Laboratory instructor for the courses "Laboratorio integrato I" and "Laboratorio Integrato II"
Main activities and responsibilities	Help the Professor preparing the activities and assist students during experiments
Name and address of employer	University of Insubria, Busto Arsizio (VA)
Dates	From April 2007 to September 2007
Occupation or position held	Recipient of the Ingenio Research fellowship, an initiative of Regione Lombardia, with the project "Development of a lymphocyte markers array".
Main activities and responsibilities	Set up of proteomics conditions
Name and address of employer	University of Insubria, Dept. Structural and Functional Biology; Laboratory of Biochemistry and functional Proteomics
Dates	From September 2005 to December 2006
Occupation or position held	Internship
Main activities and responsibilities	Cell culture, Molecular Biology (RT-PCR, microarray), Western blot, Flow Citometry
Name and address of employer	Mario Negri Institute, Department of Oncology, Molecular Pharmacology Laboratory
Dates	From July 2004 to November 2004
Occupation or position held	Internship
Main activities and responsibilities	Isolation of cells from blood, Cell Culture, Molecular Biology
Name and address of employer	Department of Preclinical Sciences, LITA Vialba, L Sacco Hospital, University of Milan

Publications on international ISI journals

1. Monti C, Bondi H, Urbani A, Fasano M, Alberio T*. Systems biology analysis of the proteomic alterations induced by MPP(+), a Parkinson's disease-related mitochondrial toxin. *Front Cell Neurosci.* 2015;9:14.
*corresponding author
2. Alberio T, Mammucari C, D'Agostino G, Rizzuto R, Fasano M. Altered dopamine homeostasis differentially affects mitochondrial voltage-dependent anion channels turnover. *Biochim Biophys Acta.* 2014;1842(9):1816-22.
3. Alberio T*, McMahon K, Cuccurullo M, Gethings LA, Lawless C, Zibetti M, Lopiano L, Vissers JP, Fasano M. Verification of a Parkinson's disease protein signature in T-lymphocytes by multiple reaction monitoring. *J Proteome Res.* 2014 Aug 1;13(8):3554-61.
*corresponding author
4. Alberio T, Bondi H, Colombo F, Alloggio I, Pieroni L, Urbani A, Fasano M. Mitochondrial proteomics investigation of a cellular model of impaired dopamine homeostasis, an early step in Parkinson's disease pathogenesis. *Mol. BioSyst.*, 2014, 10(6): 1332-44.
5. Ascenzi P, di Masi A, Leboffe L, Alberio T, Fanali G, Fasano M. Molecular phylogenetic analyses of albuminoids reveal the molecular evolution of allosteric properties. *IUBMB Life.* 2013; 65(6):544-9.
6. Falvella FS, Alberio T, Noci S, Santambrogio L, Nosotti M, Incarbone M, Pastorino U, Fasano M, Dragani TA. Multiple isoforms and differential allelic expression of CHRNA5 in lung tissue and lung adenocarcinoma. *Carcinogenesis.* 2013; 34(6):1281-5.
7. Alberio T, Bucci EM, Natale M, Bonino D, Di Giovanni M, Bottacchi E, Fasano M. Parkinson's disease plasma biomarkers: an automated literature analysis followed by experimental validation. *J Proteomics.* 2013; 90:107-14.
8. Alberio T, Pippione AC, Zibetti M, Olgiati S, Cecconi D, Comi C, Lopiano L, Fasano M. Discovery and verification of panels of T-lymphocyte proteins as biomarkers of Parkinson's

disease. *Sci Rep.* 2012; 2:953.

9. Polati R, Castagna A, Bossi AM, Alberio T, De Domenico I, Kaplan J, Timperio AM, Zolla L, Gevi F, D'Alessandro A, Brunch R, Olivieri O, Girelli D. Murine macrophages response to iron. *J Proteomics.* 2012; 76 Spec No.:10-27.
10. Alberio T*, Pippione AC, Comi C, Olgiate S, Cecconi D, Zibetti M, Lopiano L, Fasano M. Dopaminergic therapies modulate the T-CELL proteome of patients with Parkinson's disease. *IUBMB Life.* 2012; 64(10):846-52.
*corresponding author
11. Alberio T, Lopiano L, Fasano M. Cellular models to investigate biochemical pathways in Parkinson's disease. *FEBS J.* 2012; 279(7):1146-55.
12. Alberio T, Fasano M. Proteomics in Parkinson's disease: An unbiased approach towards peripheral biomarkers and new therapies. *J Biotechnol.* 2010 Dec 20;156(4):325-37.
13. Alberio T, Anchieri C, Piacentini L, Gentile G, Simmaco M, Biasin M, Fasano M. Proteomic characterization of Jurkat T leukemic cells after dopamine stimulation: A model of circulating dopamine-sensitive cells. *Biochimie.* 2011; 93(5):892-8.
14. Alberio T, Bossi AM, Milli A, Parma E, Gariboldi MB, Tosi G, Lopiano L, Fasano M. Proteomic analysis of dopamine and α -synuclein interplay in a cellular model of Parkinson's disease pathogenesis. *FEBS J.* 2010; 277(23):4909-19.
15. Alberio T, Colapinto M, Natale M, Ravizza R, Gariboldi MB, Bucci EM, Lopiano L, Fasano M. Changes in the two-dimensional electrophoresis pattern of the Parkinson's disease related protein DJ-1 in human SH-SY5Y neuroblastoma cells after dopamine treatment. *IUBMB Life.* 2010; 62(9):688-92.
16. Natale M, Bonino D, Consoli P, Alberio T, Ravid RG, Fasano M, Bucci EM. A meta-analysis of two-dimensional electrophoresis pattern of the Parkinson's disease-related protein DJ-1. *Bioinformatics.* 2010; 26(7):946-52.
17. Rubino T, Realini N, Braida D, Alberio T, Capurro V, Viganò D, Guidali C, Sala M, Fasano M, Parolaro D. The depressive phenotype induced in adult female rats by adolescent exposure to THC is associated with cognitive impairment and altered neuroplasticity in the prefrontal cortex. *Neurotox Res.* 2009; 15(4):291-302.
18. Marrazzo E, Marchini S, Tavecchio M, Alberio T, Previdi S, Erba E, Rotter V, Brogginini M. The expression of the DeltaNp73beta isoform of p73 leads to tetraploidy. *Eur J Cancer.* 2009; 45(3):443-53.
19. Fasano M, Alberio T, Lopiano L. Peripheral biomarkers of Parkinson's disease as early reporters of central neurodegeneration. *Biomark Med.* 2008; 2(5):465-78.
20. Fasano M, Alberio T, Colapinto M, Mila S, Lopiano L. Proteomics as a tool to investigate cell models for dopamine toxicity. *Parkinsonism Relat Disord.* 2008;14 Suppl 2:S135-8.

Patents

Alberio T., Fasano M, Lopiano L. (2012). Method for the in vitro diagnosis of Parkinson's disease. WO/2013/098786 Owners: University of Turin, University of Insubria.

Personal skills and competences

Mother tongue(s) Italian

Other language(s)

Self-assessment

European level (*)

English

French

German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	C2	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user
A2	Basic user	B1	Independent user	A1	Basic user	A2	Basic user	A2	Basic user
A1	Basic user	A2	Basic user	A1	Basic user	A2	Basic user	A2	Basic user

(*) Common European Framework of Reference for Languages

Social skills and competences

Team spirit; good ability to communicate with people, share ideas and work collaboratively in a team. Ability to communicate technical information also to non-technical people, especially important in meetings with patients and exponents of non-profit organizations, which have financed different projects I managed.

Organisational skills and competences

Sense of organization.
Good experience in team and projects set up and management.
Personal contribution to develop different collaborations both with companies (BiodigitalValley s.r.l., Waters Corp.) and with other research groups.
Supervision and training of numerous undergraduate, graduate and PhD students.

Technical skills and competences

Good experience in cell culture, molecular biology, two-dimensional electrophoresis, image analysis, biochemistry techniques, data analysis, systems biology.
Experience in scientific paper and grants writing and data presentation.
Peer-reviewer for Immunotoxicology and Immunopharmacology journal, Journal of Proteomics, Neuroscience and Neurochemistry International.

Computer skills and competences

Good knowledge of Microsoft Word, Microsoft Power Point, Microsoft Excel, Adobe Acrobat, Graph Pad Prism, Image Master 2D, Microcal Origin, Image J, Cytoscape and web services for systems biology analyses (String, Bioprofiling, GEO,...).

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Busto Arsizio, 09 aprile 2015

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