

PERSONAL INFORMATION

Cristina Alessandra Tringali

Born in Milan (MI), Italy, on 18th January, 1973

Citizenship: Italian

Work address: Dept. of Medical Biotechnology and Translational Medicine,
via F.lli Cervi 93, 20090, LITA, Segrate (MI)

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JOB POSITION

STUDIES

Associate Professor, Clinical Biochemistry and Clinical Molecular Biology (BIO/12)
Master degree in Biological Sciences; Post graduate medical specialization in
Clinical Biochemistry

WORK EXPERIENCE

2016-PRESENT

Associate Professor (Clinical Biochemistry and Molecular Biology-BIO/12)-University of Milan

2006-2016

Assistant Professor (Clinical Biochemistry and Molecular Biology-BIO/12)-University of Milan

1999-2006

Scientific Technician- University of Milan

1998-1999

Laboratory training as post-graduate student- University of Milan

1996-1998

Laboratory training as undergraduate student-University of Milan

EDUCATION AND TRAINING

2005

Post-graduate medical specialization in Clinical Biochemistry (70/70 cum laude), University of Milan

2002

Exam for the licence to practice as Biologist- University of Milan

1998

Master degree in Biological Sciences (106/110), University of Milan

1992

High school graduation (58/60), Liceo Classico G. Leopardi, Cinisello Balsamo (MI)

PERSONAL SKILLS

Mother tongue

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Communication skills

Good communication skills gained through my experience as teacher and researcher. They were demonstrated during my lessons in many Courses and in communications reported at International and National Congresses.

Organisational / managerial skills Long-time experience in research teams. Currently, responsible for a laboratory team.
 PI of research projects.
 Advisor teacher of the Master Course of Individual and team sport science.
 Responsible Course of “Basi Biologiche del Benessere (Master Course Exercise Science for healthy life) (AA 2017-2018; 2018-2019)
 Responsible Course of “Patogenesi e Diagnostica” (Course Nursing-San Giuseppe) (AA 2018-2019)
 Supervisor of numerous theses.
 Supervisor of PhD students.
 Component of the Committee for “Riesame” (Master Course of Individual and team sport science).
 Component of the Committee for “Riesame” (Master Course Medical Biotechnology and Molecular Medicine)

Job-related skills **Teaching activity (Field BIO/12-Clinical Biochemistry and Clinical Molecular Biology).** Since 2006/2007, she is teaching in many Courses of Medicine Faculty, Exercise and Sports Sciences School, and Specialization Schools. Current courses (AA 2018/2019), in Italian and English, belong to the following Courses and Specialization Schools:

- International medical school (master program)
- Nursery (bachelor program)
- Medical biotechnology and molecular medicine (master program)
- Exercise, sport and health (bachelor program)
- Exercise science for healthy life (master program)
- Individual and team sport science (master program)
- Allergology and clinical immunology (School of specialization)

Since 2006 to 2018, she was member of the PhD in Biochemical Sciences, University of Milan.
 Since 2018, she is member of the PhD in Experimental Medicine, University of Milan.

Research activity. Prof. Tringali focused her interest to studies concerning the control of cell glycosylation in healthy and disease. In particular, she deepened the role of sialidases and sphingolipids in relation to cell signaling and key processes, including differentiation and tumorigenesis. To this end, her research included studies on: a) sialidases role during erythrocyte aging, in healthy and diseases (type II diabetes, Down syndrome); b) expression and characterization of recombinant human sialidases in E. Coli and COS7 cells; c) purification and crystallization of human sialidase NEU2; d) involvement of sialidases and sphingolipids in the differentiation of muscle cells C2C12; e) involvement of sialidases and sphingolipids in the differentiation of CD34 cells to erythrocytes. In the last years, she has been studied sialidases and sphingolipid alterations in tumorigenesis, particularly, in chronic myeloid and lymphoblastic leukemias, in neuroblastoma, in glioblastoma multiforme and in melanoma, identifying crucial connections between alterations of sialidase expression and cell processes as survival and migration. Moreover, she performed assays on blood and saliva of microRNA, nitrites, and cytokines after physical activity. Currently, she is studying Krabbe leukodystrophy.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Basic user	Quite-independent user

Good command of office suite (word processor, spread sheet, presentation software)

Driving licence B

ADDITIONAL INFORMATION

Publications Research activity is documented by 39 publications on international peer-reviewed scientific journals and by many oral and poster communications in national and international congresses. She is co-author of a chapter of the book "Alimentazione per lo sport e la salute", published by Casa Editrice Ambrosiana, 2010.

Presentations

Publications (last 5 years)

Abdel Hadi L, Anelli V, Guarnaccia L, Navone S, Beretta M, Moccia F, **Tringali C**, Urechie V, Campanella R, Marfia G, Riboni L.

A bidirectional crosstalk between glioblastoma and brain endothelial cells potentiates the angiogenic and proliferative signaling of sphingosine-1-phosphate in the glioblastoma microenvironment.

Biochim Biophys Acta Mol Cell Biol Lipids. 2018 Oct;1863(10):1179-1192.

Rondelli V, Brocca P, Fragneto G, Daillant J, **Tringali C**, Cantu' L, Del Favero E.

Membrane restructuring following in situ sialidase digestion of gangliosides: Complex model bilayers by synchrotron radiation reflectivity.

Biochim Biophys Acta Biomembr. 2017 May;1859(5):845-851.

Guzzetti I, Civera M, Vasile F, Arosio D, **Tringali C**, Piarulli U, Gennari C, Pignataro L, Belvisi L, Potenza D.

Insights into the Binding of Cyclic RGD Peptidomimetics to $\alpha_5\beta_1$ Integrin by using Live-Cell NMR And Computational Studies.

ChemistryOpen. 2016 Dec 9;6(1):128-136.

Massaccesi L, Goi G, **Tringali C**, Barassi A, Venerando B, Papini N.

Dexamethasone-Induced Skeletal Muscle Atrophy Increases O-GlcNAcylation in C2C12 Cells.

J Cell Biochem. 2016 Aug;117(8):1833-42.

Abdel Hadi L, Di Vito C, Marfia G, Ferraretto A, **Tringali C**, Viani P, Riboni L.

Sphingosine Kinase 2 and Ceramide Transport as Key Targets of the Natural Flavonoid Luteolin to Induce Apoptosis in Colon Cancer Cells.

PLoS One. 2015 Nov 18;10(11):e0143384

Zappasodi R, Ruggiero G, Guarnotta C, Tortoreto M, **Tringali C**, Cavanè A, Cabras AD, Castagnoli L, Venerando B, Zaffaroni N, Gianni AM, De Braud F, Tripodo C, Pupa SM, Di Nicola M.

HSPH1 inhibition downregulates Bcl-6 and c-Myc and hampers the growth of human aggressive B-cell non-Hodgkin lymphoma.

Blood. 2015 Mar 12;125(11):1768-71

Silvestri I, Testa F, Zappasodi R, Cairo CW, Zhang Y, Lupo B, Galli R, Di Nicola M, Venerando B, **Tringali C**.

Sialidase NEU4 is involved in glioblastoma stem cell survival.

Cell Death Dis. 2014 Aug 21;5:e1381

Marfia G, Campanella R, Navone SE, Di Vito C, Riccitelli E, Hadi LA, Bornati A, de Rezende G, Giussani P, **Tringali C**, Viani P, Rampini P, Alessandri G, Parati E, Riboni L.

Autocrine/paracrine sphingosine-1-phosphate fuels proliferative and stemness qualities of glioblastoma stem cells.

Glia. 2014 Dec;62(12):1968-81

Tringali C, Brivio I, Stucchi B, Silvestri I, Scurati R, Michielon G, Alberti G, Venerando B.

Prevalence of a characteristic gene profile in high-level rhythmic gymnasts.

J Sports Sci. 2014;32(14):1409-15

Giussani P, **Tringali C**, Riboni L, Viani P, Venerando B.

Sphingolipids: key regulators of apoptosis and pivotal players in cancer drug resistance.

Int J Mol Sci. 2014 Mar 12;15(3):4356-92

Bergante S, Torretta E, Creo P, Sessarego N, Papini N, Piccoli M, Fania C, Cirillo F, Conforti E, Ghiroldi A, **Tringali C**, Venerando B, Ibatici A, Gelfi C, Tettamanti G, Anastasia L.

Gangliosides as a potential new class of stem cell markers: the case of GD1a in human bone marrow mesenchymal stem cells.

J Lipid Res. 2014 Mar;55(3):549-60

Tringali C, Scala L, Silvestri I, Vitale J, Scurati R, Michielon G, Alberti G, Venerando B.

Protective role of 17- β -estradiol towards IL-6 leukocyte expression induced by intense training in young female athletes.

J Sports Sci. 2014;32(5):452-61

Projects

- 2012: AIRC (IG13131; Association of sphingolipid cell profiles with melanoma progression and prognosis): member of the research team and PI since 2014
- 2010: Fondazione Cariplo (2010-0700; Modificazioni dell'espressione genica delle sialidasi Neu2 e Neu3 nel melanoma: identificazione di nuove basi molecolari utili per lo sviluppo di terapie mirate): member of the research team
- 2008: PRIN (2008PH45MA_002; Coinvolgimento delle sialidasi umane nei meccanismi di sopravvivenza e resistenza ai farmaci nel glioblastoma multiforme): member of the research team
- 2008: PUR (Programma dell'università per la ricerca; Coinvolgimento della sialidasi di membrana Neu3 nella definizione del fenotipo maligno della leucemia mieloide cronica: correlazioni fra up-regolazione genica di Neu3 e stato di alta proliferazione/non differenziamento delle cellule leucemiche): PI
- 2006: PRIN (2006058157_001; Sialidasi umane: biochimica funzionale e patologica): member of the research team
- 2004: PRIN (2004052441_001; Sialidasi umane: biochimica funzionale e patologica): member of the research team

Awards Best communication XVIII International Symposium on Glycoconjugates (Glyco XVIII, Florence, 4-9 September 2005)

Membership Member of the Italian Society of Biochemistry and Molecular Biology (SIB)

Personal information

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

I authorize, according to D.Lgs 14/03/2013 n. 33 concerning transparency, in case of conferment of the position and of the fellowship, the publication of this curriculum in the web site of Università degli Studi di Milano in the section "Amministrazione trasparente", "Consulenti e collaboratori".

Date 1st April 2019

Signature

