



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)

Michele Zampieri

Work address(es)

CTU - Via Chieti, 7 – 00161 Rome – Italy - 1st Floor - room 108

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zampieri@bce.uniroma1.it

Occupational field

Research: Biochemistry, Molecular Biology (BIO 12)

Present position

Dates

From Nov 2011

Occupation or position held

Academic Researcher

Main activities and responsibilities

Research, Teaching

Name and address of employer

Dept. of Cellular Biotechnologies and Haematology, Sec. of Clinical Biochemistry, Faculty of Pharmacy and Medicine, "Sapienza" University of Rome, Rome, Italy

Sector

Biomedical research

Research interest

- Role of PARylation and CTCF in the control of epigenetic regulatory mechanisms of oncogenic processes.
- Role of PARylation in the DNA demethylation processes and in controlling the expression and activity of TET enzymes.
- Epigenetic reprogramming in multiple sclerosis.
- Epigenetics and aging.

Teaching activity

Ay 2007/08 – Tutorial activity in the "Basis of Laboratory Medicine" course, III year, 2nd semester, Degree in Medicine, Faculty of Medicine and Psychology, Sapienza University of Rome.

From ay 2007/08 to 2010/11 – Lecturer of the "General Laboratory of Clinical Biochemistry" course, I year, 2nd semester, Degree in Medical Laboratory Technician, Faculty of Medicine and Psychology, Sapienza University of Rome.

From ay 2009/10 – Lecturer of the "Clinical Biochemistry and Molecular Biology" course, II year 1st semester, Degree in Medical Laboratory Technician, Faculty of Medicine and Psychology, Sapienza University of Rome.

From ay 2014/15 - Lecturer of the "Clinical Biochemistry" course, II year, 2nd semester, Degree in Medicine, Faculty of Pharmacy and Medicine, Sapienza University of Rome.

From ay 2014/15 - Member of the Academic Board of the PhD Course in Human Biology and Medical Genetics, Faculty of Pharmacy and Medicine, Sapienza University of Rome.

Previous work experience

Dates

Dec 2008 – Nov 2010

Occupation or position held

Temporary Research Associate

Main activities and responsibilities

Research within the MARK-AGE project, European Study (FP7) to Establish Biomarkers of Human Ageing 2008 – 2013

Name and address of employer

Faculty of Medicine and Psychology, "Sapienza" University of Rome, Rome, Italy

Sector

Biomedical research

Dates Nov 2006 – Nov 2008
 Occupation or position held Postdoc Research Fellow
 Main activities and responsibilities Research
 Name and address of employer - Italian Association for Cancer Research (AIRC), Milan, Italy
 - Pasteur Institute, Cenci Bolognetti Foundation, Rome, Italy
 - Dept. of Cellular Biotechnologies and Haematology, "Sapienza" University of Rome, Rome, Italy
 Sector Biomedical research

Education and training

Dates Oct 2003 – Oct 2006
 Title of qualification awarded PhD in Human Biology and Genetics
 Name and type of organisation providing education and training Dept. of Cellular Biotechnologies and Haematology, "Sapienza" University of Rome
 Tutor: Prof. Paola Caiafa

Dates May 2003
 Title of qualification awarded Degree in Biology with honours
 Name and type of organisation providing education and training "Sapienza" University of Rome

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s) **English**

Self-assessment

European level ()*

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent User	B2	Independent User	B2	Independent User	B2	Independent User	B2	Independent User

(*) [Common European Framework of Reference for Languages](#)

Grants

Dates Years 2016-2017
 Title of project awarded Link between 5-hydroxymethylcytosine levels and poly(ADP-ribosyl)ation in human MS brain
 Name and type of organisation providing grant Associazione Italiana Sclerosi Multipla AISM/FISM

Dates Years 2012-2015
 Title of project awarded CTCF, PARP1 and DNMT1: their putative role in the regulation of promoter DNA methylation of genes involved in oncogenesis.
 Name and type of organisation providing grant "Sapienza" University of Rome

Bibliometric indicators

H-index = 13; citations = 656, papers = 26

Scientific publications

Ciccarone F, **Zampieri M**, Caiafa P. PARP1 orchestrates epigenetic events setting up chromatin domains. *Semin Cell Dev Biol.* 2017 Mar;63:123-134.

Shared senior authorship

Valentini E, **Zampieri M**, Malavolta M, Bacalini MG, Calabrese R, Guastafierro T, Reale A, Franceschi C, Hervonen A, Koller B, Bernhardt J, Slagboom PE, Toussaint O, Sikora E, Gonos ES, Breusing N, Grune T, Jansen E, Dollé ME, Moreno-Villanueva M, Sindlinger T, Bürkle A, Ciccarone F, Caiafa P. Analysis of the machinery and intermediates of the 5hmC-mediated DNA demethylation pathway in aging on samples from the MARK-AGE Study. *Aging* (Albany NY). 2016 Aug 29;8(9):1896-1922.

Shared 1st name

Ciccarone F, Malavolta M, Calabrese R, Guastafierro T, Bacalini MG, Reale A, Franceschi C, Capri M, Hervonen A, Hurme M, Grubeck-Loebenstein B, Koller B, Bernhardt J, Schön C, Slagboom PE, Toussaint O, Sikora E, Gonos ES, Breusing N, Grune T, Jansen E, Dollé M, Moreno-Villanueva M, Sindlinger T, Bürkle A, **Zampieri M**, Caiafa P. Age-dependent expression of DNMT1 and DNMT3B in PBMCs from a large European population enrolled in the MARK-AGE study. *Aging Cell*. 2016 Aug;15(4):755-65.

Shared senior authorship

Verdone L, La Fortezza M, Ciccarone F, Caiafa P, **Zampieri M**, Caserta M. Poly(ADP-Ribosyl)ation Affects Histone Acetylation and Transcription. *PLoS One*. 2015 Dec 4;10(12):e0144287.

Ciccarone F, Valentini E, **Zampieri M**, Caiafa P. 5mC-hydroxylase activity is influenced by the PARylation of TET1 enzyme. *Oncotarget*. 2015 Sep 15;6(27):24333-47.

Mariano G, Ricciardi MR, Trisciuglio D, **Zampieri M**, Ciccarone F, Guastafierro T, Calabrese R, Valentini E, Tafuri A, Del Bufalo D, Caiafa P, Reale A. PARP inhibitor ABT-888 affects response of MDA-MB-231 cells to doxorubicin treatment, targeting Snail expression. *Oncotarget*. 2015 Jun 20;6(17):15008-21.

Zampieri M, Ciccarone F, Calabrese R, Franceschi C, Bürkle A, Caiafa P. Reconfiguration of DNA methylation in aging. *Mech Ageing Dev*. 2015 Feb 20. pii: S0047-6374(15)00007-X.

Ciccarone F, Valentini E, Bacalini MG, **Zampieri M**, Calabrese R, Guastafierro T, Mariano G, Reale A, Franceschi C, Caiafa P. Poly(ADP-ribosyl)ation is involved in the epigenetic control of TET1 gene transcription. *Oncotarget*. 2014 Nov 15;5(21):10356-67.

Zampieri M, Ciccarone F, Palermo R, Cialfi S, Passananti C, Chiaretti S, Nocchia D, Talora C, Screpanti I, Caiafa P. The epigenetic factor BORIS/CTCF regulates the NOTCH3 gene expression in cancer cells. *Biochim Biophys Acta*. 2014 Sep;1839(9):813-25.

Calabrese R, Valentini E, Ciccarone F, Guastafierro T, Bacalini MG, Ricigliano VA, **Zampieri M**, Annibali V, Mechelli R, Franceschi C, Salvetti M, Caiafa P. TET2 gene expression and 5-hydroxymethylcytosine level in multiple sclerosis peripheral blood cells. *Biochim Biophys Acta*. 2014 Jul;1842(7):1130-6.

Guastafierro T., Catizone, A., Calabrese, R., **Zampieri, M.**, Martella, O., Bacalini, M.G., Reale, A., Di Girolamo, M., Miccheli, M., Farrar, D., Klenova, E., Ciccarone, F., Caiafa, P. 2013. ADP-ribose polymer depletion leads to nuclear Ctcf re-localization and chromatin rearrangement. *Biochem J*. 2013, 449: 623-30.

Ciccarone, F., Klinger, F.G., Catizone, A., Calabrese, R., **Zampieri, M.**, Bacalini, M.G., De Felici, M., Caiafa, P. 2012. Poly(ADP-ribosyl)ation Acts in the DNA Demethylation of Mouse Primordial Germ Cells Also with DNA Damage-Independent Roles. *PLoS One*, 7(10):e46927.

Caiafa, P., **Zampieri, M.** 2012. Why is DNA methylation of Igf2 CpG island shore affected during ageing? *Aging*, 4(7):448-9.

Zampieri, M., Guastafierro, T., Calabrese, R., Ciccarone, F., Bacalini, M.G., Reale, A., Perilli, M., Passananti, C., Caiafa, P. 2012. ADP-ribose polymers localized on Ctcf-Parp1-Dnmt1 complex prevent methylation of Ctcf target sites. *Biochem J.*, 441(2):645-52.

Calabrese, R., **Zampieri, M.**, Mechelli, R., Annibali, V., Guastafierro, T., Ciccarone, F., Coarelli, G., Umeton, R., Salvetti, M., Caiafa, P. 2012. Methylation-dependent PAD2 upregulation in multiple sclerosis peripheral blood. *Mult Scler.*, 18(3):299-304.

Shared 1st name

Caldini, R., Fanti, E., Magnelli, L., Barletta, E., Tanganelli, E., **Zampieri, M.**, Chevanne, M. 2011. Low doses of 3-aminobenzamide, a poly(ADP-ribose) polymerase inhibitor, stimulate angiogenesis by regulating expression of urokinase type plasminogen activator and matrix metalloprotease 2. *Vasc Cell.*, 3(1):12.

Bacalini, M.G., Di Lonardo, D., Catizone, A., Ciccarone, F., Bruno, T., **Zampieri, M.**, Guastafierro, T., Calabrese, R., Fanciulli, M., Passananti, C., Caiafa, P., Reale, A. 2011. Poly(ADP-ribose)ation affects stabilization of Che-1 protein in response to DNA damage. *DNA Repair*, 10(4):380-9.

Zampieri, M., Ciccarone, F., Guastafierro, T., Bacalini, M.G., Calabrese, R., Moreno-Villanueva, M., Reale, A., Chevanne, M., Bürkle, A., Caiafa, P. 2011. Validation of suitable internal control genes for expression studies in aging. *Mech Ageing Dev.*, 131(2):89-95.

Chevanne, M., **Zampieri, M.**, Caldini, R., Rizzo, A., Ciccarone, F., Catizone, A., D'Angelo, C., Guastafierro, T., Biroccio, A., Reale, A., Zupi, G., Caiafa, P. 2010. Inhibition of PARP activity by PJ-34 leads to growth impairment and cell death associated with aberrant mitotic pattern and nucleolar actin accumulation in M14 melanoma cell line. *J Cell Physiol.*, 222:401-10.

Shared 1st name

Zampieri, M., Passananti, C., Calabrese, R., Perilli, M., Corbi, N., De Cave, F., Guastafierro, T., Bacalini, M.G., Reale, A., Amicosante, G., Calabrese, L., Zlatanova, J., Caiafa, P. 2009. Parp1 localizes within the Dnmt1 promoter and protects its unmethylated state by its enzymatic activity. *PLoS ONE*, 4:e4717.

Caiafa, P., Guastafierro, T., **Zampieri, M.** 2008. Epigenetics: poly(ADP-ribose)ation of PARP-1 regulates genomic methylation pattern. *FASEB Journal*, 23:672-8.

Guastafierro, T., Cecchinelli, B., **Zampieri, M.**, Reale, A., Riggio, G., Sthandier, O., Zupi, G., Calabrese, L., Caiafa, P. 2008. CCCTC-binding Factor Activates PARP-1 Affecting DNA Methylation Machinery. *J Biol Chem*, 283:21873-80.

Chevanne, M., Calia, C., **Zampieri, M.**, Cecchinelli, B., Caldini, R., Monti, D., Franceschi C., Caiafa, P. 2007. Oxidative DNA Damage Repair and parp 1 and parp 2 Expression in Epstein-Barr Virus-Immortalized B Lymphocyte Cells from Young Subjects, Old Subjects, and Centenarians. *Rejuvenation Research*, 10: 191-204.

Caiafa, P., **Zampieri, M.** 2004. DNA methylation and chromatin structure: the puzzling CpG islands. *J Cell. Biochem*, 94: 257-265.

Reale, A., De Matteis, G., Galleazzi, G., **Zampieri, M.**, Caiafa, P. 2004. Modulation of DNMT1 activity by ADP-ribose polymers. *Oncogene*, 6: 13-19.

Mearini, G., Chichiarelli, S., Zampieri, M., Masciarelli, S., D'Erme, M., Ferraro, A., Mattia, E. 2003. Interaction of EBV latent origin of replication with the nuclear matrix: identification of S/MAR sequences and protein components. *FEBS Letters*, 574: 119-124.

Other activities

Editorial activity

Review Editor for the journal *Frontiers in Endocrinology*, Endocrinology of Aging.

Peer review

Biochemistry and Cell Biology, University of Manitoba, T-253, 770 Bannatyne Avenue, Winnipeg, MB R3E 0W3 Canada.

Ageing Cell, John Wiley & Sons Ltd and The Anatomical Society

BMC Molecular Biology, BioMed Central

Organization of congresses & conferences

Year 2004: member of the organizing committee of the "XVII Italian Meeting on Poly(ADP-ribose)ation Processes". Università degli Studi di Roma «La Sapienza», 17-18/12/2004 Rome, Italy.

Year 2010: member of the organizing committee of the "XXIII Italian Meeting on Poly(ADP-ribose)ation Processes". Università degli Studi di Roma «La Sapienza», 23-24/09/2010 Rome, Italy.

Rome 28/03/2017

Firmato
Michele Zampieri