

CURRICULUM VITAE

Name: **Valeriana Cesarini**

e-mail: **valeriana.cesarini@unicamillus.org**

EDUCATION

- 13/10/2011: 2nd level Degree in Medical Biotechnologies (two-years course), highest honors, Catholic University of Rome, Italy. Dissertation: "Prognostic relevance of EBV-positivity and CD68 in Hodgkin's lymphoma." Advisor: Prof. Luigi Maria Larocca.

- 01/04/2009: 1st level Degree in Sanitary Biotechnologies (three-years course), Catholic University of Rome, Italy. Dissertation: "Prognostic relevance of *K-RAS* mutations in sporadic colorectal carcinoma" Advisor: Prof Luigi Maria Larocca.

TEACHING EXPERIENCE

- February 2020-February 2023: Professor of Human Anatomy (Researcher Type A) Degree in Medicine and Surgery, Saint Camillus International University of Health and Medical Sciences (UniCamillus), Rome, Italy.

- March 2019-January 2020: Professor of Human Anatomy, Degree in Medicine and Surgery, Saint Camillus International University of Health and Medical Sciences (UniCamillus), Rome, Italy.

RESEARCH EXPERIENCE

- January 2016-up to now: Postdoctoral fellow, Department of Oncoematology, Ospedale Pediatrico Bambino Gesù, Rome Italy.

The research activity is primary focused on A to I RNA editing and in particular on investigation of the role of *Adar2* enzyme as an oncosuppressor in Glioblastoma Multiforme using a mouse model.

- November 2012 – December 2015: PhD in Biotechnology and Translational Medicine, Institute of Human Anatomy, University of Tor Vergata, Rome Italy. The research activity was focused on the role of Phosphodiesterase type 5 in regulation of Glioblastoma Multiforme invasiveness and in the Role of *Sox2* in the development of *BRafV600E* and *Pten* null driven melanoma.

- December 2011 – November 2012: Research fellowship at Catholic University of Rome, Department of Neurosurgery. The research activity was focused on primary Glioblastoma Cancer stem cells characterization.

- December 2009 – November 2011: Undergraduate student at Catholic University of Rome, Department of Molecular Pathology. The research activity was focused on the role of EBV-positivity and CD68 expression in Hodgkin lymphomas.

- December 2007 – November 2009: Undergraduate student Catholic University of Rome, Department of Molecular Pathology. The research activity was focused on prognostic role of *K-RAS* mutations in colorectal cancer.

SCIENTIFIC PUBLICATIONS

1) *Deregulation of TLR4 signaling pathway characterizes Bicuspid Aortic valve syndrome.*

C R. Balistreri, A G M Marullo, M Madonna, E Cavarretta, A Allegra, **V Cesarini**, A Iaccarino, S Schiavon, M Peruzzi, E Greco, S Sciarretta, C Pisano, G Ruvolo, M Torella & G Frati.

2) *Regulation of PDE5 expression in human aorta and thoracic aortic aneurysms.*

V Cesarini, C Pisano, G Rossi, C R Balistreri, F Botti, G Antonelli, G Ruvolo, E A Jannini & S Dolci. *Sci Rep.* 2019 Aug 21;9(1):12206.

3) *AKT-dependent phosphorylation of the adenosine deaminases ADAR-1 and -2 inhibits deaminase activity.*

Bavelloni A, Focaccia E, Piazzini M, Raffini M, **Cesarini V**, Tomaselli S, Orsini A, Ratti S, Faenza I, Cocco L, Gallo A, Blalock WL. *FASEB J.* 2019 Aug;33(8):9044-9061.

4) *Dynamic inosinome profiles reveal novel patient stratification and gender-specific differences in glioblastoma.*

Silvestris DA, Picardi E, **Cesarini V**, Fosso B, Mangraviti N, Massimi L, Martini M, Pesole G, Locatelli F, Gallo A. *Genome Biol.* 2019 Feb 13;20(1):33.

5) *The adaptive potential of RNA editing-mediated miRNA-retargeting in cancer.*

Tassinari V, **Cesarini V**, Silvestris DA, Gallo A. *Biochim Biophys Acta Gene Regul Mech.* 2019 Mar;1862(3):291-300.

6) *ADAR2/miR-589-3p axis controls glioblastoma cell migration/invasion.*

V Cesarini, D A Silvestris, V Tassinari, S Tomaselli, S Alon, E Eisenberg, F Locatelli and Angela Gallo. *Nucleic Acids Res.* 2018 Feb 28;46(4):2045-2059.

7) *Sox2 is not required for melanomagenesis, melanoma growth and melanoma metastasis in vivo.*

Cesarini V, Guida E, Todaro F, Di Agostino S, Tassinari V, Nicolis S, Favaro R, Caporali S, Lacal PM, Botti E, Costanzo A, Rossi P, Jannini EA, Dolci S. *Oncogene.* 2017 Aug;36(31):4508-4515.

8) *Type 5 phosphodiesterase regulates glioblastoma multiforme aggressiveness and clinical outcome.*

Cesarini V, Martini M, Vitiani LR, Gravina GL, Di Agostino S, Graziani G, D'Alessandris QG, Pallini R, Larocca LM, Rossi P, Jannini EA, Dolci S. *Oncotarget.* 2017 Feb 21;8(8):13223-13239.

9) *Fgf9 inhibition of meiotic differentiation in spermatogonia is mediated by Erk-dependent activation of Nodal-Smad2/3 signaling and is antagonized by Kit Ligand.*

Tassinari V, Campolo F, **Cesarini V**, Todaro F, Dolci S, Rossi P. *Cell Death Dis.* 2015 Mar 12;6:e1688.

10) *Platelet-derived growth factor regulation of type-5 phosphodiesterase in human and rat penile smooth muscle cells.*

Carosa E, Castri A, Forcella C, Sebastiani G, Di Sante S, Gravina GL, Ronchi P, **Cesarini V**, Dolci S, Di Stasi S, Lenzi A, Jannini EA. *J Sex Med.* 2014 Jul;11(7):1675-84.

11) *Epigenetic silencing of Id4 identifies a glioblastoma subgroup with a better prognosis as a consequence of an inhibition of angiogenesis.*

M. Martini, T. Cenci, G. Q. D'Alessandris, **V. Cesarini**, A. Cocomazzi, L. Ricci-Vitiani, R. De Maria, Roberto Pallini, L. M. Larocca. *Cancer.* 2013 Mar 1;119(5):1004-12.

12) *The viral load of Epstein-Barr virus (EBV)-DNA in Peripheral Blood Predicts for Biological and Clinical Characteristics in Hodgkin Lymphoma.*

S. Hohaus, R. Santangelo, M. Giachelia, B. Vannata, G. Massini, A. Cuccaro, M. Martini, **V. Cesarini**, T. Cenci, F. D'Alò, M.T. Voso, G. Fadda, G. Leone, L. M. Larocca. *Clin Cancer Res.* 2011; 17:2885-92

COMMUNICATION in NATIONAL/INTERNATIONAL CONGRESSES

1) Gordon Research Seminar on RNA and DNA Editing and Modification: Mechanism, Function and Tools for Precision Medicine Lucca, Italy March 23 - 24, 2019.

Discussion leader and poster presentation.

Deficiency of RNA-editing enzyme Adar2 in adult mouse brain

V Cesarini, D A Silvestris, V Tassinari, C Cingolani, M Marcoli, V Trezza, R Canese, G Carpinelli, F Locatelli and A Gallo.

2) Gordon Research Conference on Next-Generation Epitranscriptomics in Health and Disease, Lucca, Italy, March 24 - 29, 2019.

Deficiency of RNA-editing enzyme Adar2 in adult mouse brain

V Cesarini, D A Silvestris, V Tassinari, C Cingolani, M Marcoli, V Trezza, R Canese, G Carpinelli, F Locatelli and A Gallo.

3) AACR Annual Meeting 2017. Walter E. Washington Convention Center, Washington, D.C., USA
Deciphering Inosinome in Glioblastoma versus normal cortex and astrocytes

A. D. Silvestris, E. Picardi, **V. Cesarini**, V. Tassinari, N. Mangraviti, G. Pesole, F. Locatelli, and A. Gallo.

4) Society for Melanoma Research 2015 International Congress, San Francisco, California, November 18-21, 2015

Role of Sox2 in the development of BRAFV600E and Pten null driven melanoma

V.Cesarini, S Dolci

5) GBM 2015 Conference, II International Symposium on Clinical and Basic Investigation, Toledo, Spain 9-12 September 2015

Phosphodiesterase type 5 regulates glioblastoma invasiveness

V. Cesarini, S. Dolci and E.A. Jannini

6) 38° Congresso Nazionale Societa' Italiana di Endocrinologia, Taormina, ME, 27-30 maggio 2015
Phosphodiesterase type 5 transcriptional regulation in myometrial cells

V. Cesarini, Martini M, Pallini R Ricci Vitiani, L. M. Larocca , E.A. Jannini and S. Dolci.