

CURRICULUM VITAE

Name: Diana Liberata

Last Name: Esposito

Citizenship: Australian and Italian

Work address: University "G. d'Annunzio" Chieti-Pescara, Center for Advanced Studies and Technology (CAST), Room 568, Via Luigi Polacchi, 11 66100 Chieti, Italy

Position: Assistant Professor, full position, General Pathology, University G. d'Annunzio Chieti-Pescara

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Education:

2002: Postgraduate Specialization in Medical Genetics, University "G. d'Annunzio" Chieti-Pescara, Italy

1995: Ph.D. in Experimental Medicine, University "La Sapienza", Rome, Italy

1990: Professional Biologist qualification, University of L'Aquila, Italy

1988: Degree in Biological Sciences, University of L'Aquila, Italy

Research Experiences:

2002-present: Assistant Professor, full position, General Pathology, Center for Advanced Studies and Technology (CAST), University G. d'Annunzio Chieti-Pescara.

Her research focuses on the investigation of signal transduction pathways regulating physiological and pathological processes in cancer biology and diabetes pathophysiology, as well as on mitochondrial dysfunction and hypoxia. Her work also encompasses molecular genetics, viral carcinogenesis, and functional studies of microRNAs in cancer biology.

1998-2002: Specialization student, University "G. d'Annunzio" Chieti-Pescara Italy. The research activity included the molecular genetics of type 2 diabetes and the structure-function relationships of IRS1 related to type 2 diabetes physiopathology

June 2000, February-March 2001 June-July 2001: Guest Researcher, NHLBI, National Institutes of Health, Bethesda, Maryland, USA. The research activity included the molecular mechanisms of IRS1 mediated insulin signaling

March 1999-October 1999: Guest Researcher, NHLBI, National Institutes of Health, Bethesda, Maryland, USA. The research activity included the molecular mechanisms of IRS1 mediated insulin signaling

March 1995-July 1996: Post-doctoral researcher, NIDDK, National Institutes of Health, Bethesda, Maryland, USA. The research activity included the structure-function relationships of insulin-like growth factor-1 receptor related to cancer (Group Leader: Derek LeRoith)

May-September 1993: Summer student, Diabetes branch, NIDDK, National Institutes of Health, Bethesda, Maryland, USA. The research activity included site-directed mutagenesis of GLUT4 promoter (Mentor: Michael J Quon)

1990-1994: Ph.D student, University "La Sapienza", Rome, Italy. The research activity included the genetics of colon cancer predisposition, viral carcinogenesis studies and development of innovative methods

1988-1990: Postgraduate training, University G. d'Annunzio Chieti-Pescara, Chieti. The research activities included medical microbiology

Referee's activities

Ad HOC Reviewer: **Diabetology & Metabolic Syndrome, Journal of Molecular Histology, Journal of Gastroenterology and Hepatology**

2023 -present- Community Reviewer: **Frontiers in Endocrinology**

2015 -present- Selected Editorial board member: **Scientific Journal of Genetics and Gene Therapy**

2022 – 2023: Guest editor in the **Microorganisms** special issue "Oncogenic Role of Viruses and Bacteria"

Original peer reviewed articles:

1) CATALANO T, SELVAGGI F, ESPOSITO DL, COTELLESE R, ACETO GM. Infectious Agents Induce Wnt/ β -Catenin Pathway Deregulation in Primary Liver Cancers. *Microorganisms*. 2023 Jun 22;11(7):1632.

2) DE FABRITIIS S, VALENTINUZZI S, PIRAS G, CICALINI I, PIERAGOSTINO D, PAGOTTO S, PERCONTI S, ZUCHELLI M, SCHENA A, TASCHEIN E, BERTEȘTEANU GS, ESPOSITO DL, STIGLIANO A, DE LAURENZI V, SCHIAVI F, SANNA M, DEL BOCCIO P, VERGINELLI F, MARIANI-COSTANTINI R. Targeted metabolomics detects a putatively diagnostic signature in plasma and dried blood spots from head and neck paraganglioma patients. *Oncogenesis*. 2023 Feb 25;12(1):10

3) LOTTI LV, VESPA S, PANTALONE MR, PERCONTI S, ESPOSITO DL, VISONE R, VERONESE A, PATIES CT, SANNA M, VERGINELLI F, NAUCLÉR CS, MARIANI-COSTANTINI R. A Developmental Perspective on Paragangliar Tumorigenesis. *CANCERS (BASEL)*. 2019, 11(3). pii: E273

4) VERGINELLI F, PERCONTI S, VESPA S, SCHIAVI F, PRASAD SC, LANUTI P, CAMA A, TRAMONTANA L, ESPOSITO DL, GUARNIERI S, SHEU A, PANTALONE MR, FLORIO R, MORGANO A, ROSSI C, BOLOGNA G, MARCHISIO M, D'ARGENIO A, TASCHEIN E, VISONE R, OPOCHER G, VERONESE A, PATIES CT, RAJASEKHAR VK, SÖDERBERG-NAUCLÉR C, SANNA M, LOTTI LV, MARIANI-COSTANTINI R. Paragangliomas arise through an autonomous vasculo-angio-neurogenic program inhibited by imatinib. *ACTA NEUROPATHOL*. 2018 May;135(5):779-798.

5) ESPOSITO DL, VERGINELLI F, TORACCHIO S, MAMMARELLA S, DE LELLIS L, VANNI C, RUSSO A, MARIANI-COSTANTINI R, CAMA A. Novel insulin receptor substrate 1 and 2 variants in breast and colorectal cancer. *ONCOL REP*. 2013 Oct;30(4):1553-60.

6) ESPOSITO DL, ARU F, LATTANZIO R, MORGANO A, ABBONDANZA M, MALEKZADEH R, BISHEHSARI F, VALANZANO R, RUSSO A, PIANTELLI M, MOSCHETTA A, LOTTI LV, MARIANI-COSTANTINI R. The insulin receptor substrate 1 (IRS1) in intestinal epithelial differentiation and in colorectal cancer. *PLOS ONE*. 2012;7(4):e36190.

7) MODICA S, MORGANO A, SALVATORE L, PETRUZZELLI M, VANIER MT, VALANZANO R, ESPOSITO DL, PALASCIANO G, DULUC I, FREUND JN, MARIANI-COSTANTINI R, MOSCHETTA A. Expression and localisation of insulin receptor substrate 2 in normal intestine and colorectal tumours. Regulation by intestine-specific transcription factor CDX2. *GUT*. 2009 Sep;58(9):1250-9.

8) DI GIOACCHINO M, PETRARCA C, PERRONE A, FARINA M, SABBIONI E, HARTUNG T, MARTINO S, ESPOSITO D.L., LOTTI LV, MARIANI-COSTANTINI R. (2008). Autophagy as an ultrastructural marker of heavy metal toxicity in human cord blood hematopoietic stem cells. *SCIENCE OF THE TOTAL ENVIRONMENT*. vol. 392, pp. 50-58

9) DI GIOACCHINO M, PETRARCA C, PERRONE A, MARTINO S, ESPOSITO D.L., LOTTI LV, MARIANI-COSTANTINI R. (2008). Autophagy in hematopoietic stem/progenitor cells exposed

to heavy metals: biological implications and toxicological relevance. *AUTOPHAGY*. vol. 4, pp. 537-539

10) DI GIOACCHINO, M., PERRONE, A., PETRARCA, C., VERNA, N., ESPOSITO, D., PONTI, J., SABBIONI, E., DI GIAMPAOLO, L., BOSCOLO, P., COSTANTINI, R.M. In vitro cytokine modulation by cobalt nano- and microparticles and solutions. *Giornale Italiano di Medicina del Lavoro ed Ergonomia* Volume 28, Issue 3, July 2006, Pages 316-318

11) BISHEHSARI F, MAHDAVINIA M, MALEKZADEH R, VERGINELLI F, CATALANO T, SOTOUDEH M, BAZAN V, AGNESE V, ESPOSITO D.L., DE LELLIS L, SEMERARO D, COLUCCI G, HORMAZDI M, RAKHSHANI N, CAMA A, PIANTELLI M, IACOBELLI S, RUSSO A, MARIANI-COSTANTINI R. (2006). Patterns of K-ras mutation in colorectal carcinomas from Iran and Italy (a Gruppo Oncologico dell'Italia Meridionale study): influence of microsatellite instability status and country of origin. *ANNALS OF ONCOLOGY*. vol. 17, pp. vii91-vii96

12) ESPOSITO D.L., LI Y, VANNI C, MAMMARELLA S, VESCHI S, DELLA LOGGIA F, MARIANI-COSTANTINI R, BATTISTA P, QUON MJ, CAMA A. (2003). A novel T608R missense mutation in insulin receptor substrate-1 identified in a subject with type 2 diabetes impairs metabolic insulin signaling. *JOURNAL OF CLINICAL ENDOCRINOLOGY AND METABOLISM*. vol. 88, pp. 1468-1475

13) MINCIONE G, ESPOSITO D.L., DI MARCANTONIO MC, PICCIRELLI A, CAMA A, COLLETTA G. (2003). TGF-beta 1 modulation of IGF-I signaling pathway in rat thyroid epithelial cells. *EXPERIMENTAL CELL RESEARCH*. vol. 287, pp. 411-423

14) NISIO CD, BRUNETTI L, ESPOSITO D.L., RECINELLA L, ORLANDO G, MICHELOTTO B, VACCA M. (2003). Desialylated N-CAM and chromatin-derived acidic peptide effects in the hypothalamus. *PEPTIDES*. vol. 24, pp. 1231-1236

15) ARMONI M, QUON MJ, MAOR G, AVIGAD S, SHAPIRO DN, HAREL C, ESPOSITO D.L., GOSHEN Y, YANIV I, KARNIELI E. (2002). PAX3/forkhead homolog in rhabdomyosarcoma oncoprotein activates glucose transporter 4 gene expression in vivo and in vitro. *JOURNAL OF CLINICAL ENDOCRINOLOGY AND METABOLISM*. vol. 87, pp. 5312-5324

16) MONTAGNANI M, RAVICHANDRAN LV, CHEN H, ESPOSITO D.L., QUON MJ. (2002). Insulin receptor substrate-1 and phosphoinositide-dependent kinase-1 are required for insulin-stimulated production of nitric oxide in endothelial cells. *MOLECULAR ENDOCRINOLOGY*. vol. 16, pp. 1931-1942

17) VERGINELLI F, OTTINI L, ESPOSITO D.L., CAMA A, BATTISTA P, CIRANNI R, ZAVAGLIA K, MARIANI-COSTANTINI R, FORNACIARI G. (2002). Ancient DNA studies: from paleopathology to population genetics. *MEDICINA NEI SECOLI*. vol. 14, pp. 587-607

18) ESPOSITO D.L., LI Y, CAMA A, QUON MJ. (2001). Tyr(612) and Tyr(632) in human insulin receptor Tyr(612) and Tyr(632) in human insulin receptor substrate-1 are important for full activation of insulin-stimulated phosphatidylinositol 3-kinase activity and translocation of GLUT4 in adipose cells. *ENDOCRINOLOGY*. vol. 142, pp. 2833-2840

19) RAVICHANDRAN LV, ESPOSITO D.L., CHEN J, QUON MJ. (2001). Protein kinase C-zeta phosphorylates insulin receptor substrate-1 and impairs its ability to activate phosphatidylinositol 3-kinase in response to insulin. *THE JOURNAL OF BIOLOGICAL CHEMISTRY*. vol. 276, pp. 3543-3549

20) ARCURI P, DI SPIRITO P, DI VALERIO A, PALMIROTTA R, CREATI B, MAMMARELLA S, ESPOSITO D.L., CARAMIA FG, MARIANI-COSTANTINI R, CAMA A, BATTISTA P. (2000). Mutational analysis of OB gene in obese and type 2 diabetes affected subjects. *INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE*. vol. 6, pp. 97-99

21) FICARI F, CAMA A, VALANZANO R, CURIA MC, PALMIROTTA R, ACETO G, ESPOSITO D.L., CROGNALE S, LOMBARDI A, MESSERINI L, MARIANI-COSTANTINI R, TONELLI F, BATTISTA P. (2000). APC gene mutations and colorectal adenomatosis in familial adenomatous polyposis. *BRITISH JOURNAL OF CANCER*. vol. 82, pp. 348-353

- 22) MAMMARELLA S, ROMANO F, DI VALERIO A, CREATI B, ESPOSITO D.L., PALMIROTTA R, CAPANI F, VITULLO P, VOLPE G, BATTISTA P, DELLA LOGGIA F, MARIANI-COSTANTINI R, CAMA A. (2000). Interaction between the G1057D variant of IRS-2 and overweight in the pathogenesis of type 2 diabetes. *HUMAN MOLECULAR GENETICS*. vol. 9, pp. 2517-2521
- 23) RAZZINI G, INGROSSO A, BRANCACCIO A, SCIACCHITANO S, ESPOSITO D.L., FALASCA M. (2000). Different subcellular localization and phosphoinositides binding of insulin receptor substrate protein pleckstrin homology domains. *MOLECULAR ENDOCRINOLOGY*. vol. 14, pp. 823-836
- 24) CURIA MC, ESPOSITO D.L., ACETO G, PALMIROTTA R, CROGNALE S, VALANZANO R, FICARI F, TONELLI F, BATTISTA P, MARIANI-COSTANTINI R, CAMA A. (1998). Transcript dosage effect in familial adenomatous polyposis: model offered by two kindreds with exon 9 APC gene mutations. *HUMAN MUTATION*. vol. 11, pp. 197-201
- 25) ESPOSITO D.L., PALMIROTTA R, VERI MC, MAMMARELLA S, D'AMICO F, CURIA MC, ACETO G, CROGNALE S, CREATI B, MARIANI-COSTANTINI R, BATTISTA P, CAMA A. (1998). Optimized PCR labeling in mutational and microsatellite analysis. *CLINICAL CHEMISTRY*. vol. 44, pp. 1381-1387
- 26) MAMMARELLA S, CREATI B, ESPOSITO D.L., ARCURI P, DELLA LOGGIA F, CAPANI F, MARIANI-COSTANTINI R, CARAMIA FG, BATTISTA P, CAMA A. (1998). Novel allele of the insulin receptor substrate-1 bearing two non-conservative amino acid substitutions in a patient with noninsulin-dependent diabetes mellitus. *Mutations in brief* no. 130. Online. *HUMAN MUTATION*. vol. 11, pp. 411
- 27) PALMIROTTA R, VERI MC, CURIA MC, ACETO G, D'AMICO F, ESPOSITO D.L., ARCURI P, MARIANI-COSTANTINI R, MESSERINI L, MORI S, CAMA A, BATTISTA P. (1998). Transcripts with splicings of exons 15 and 16 of the hMLH1 gene in normal lymphocytes: implications in RNA-based mutation screening of hereditary non-polyposis colorectal cancer. *EUROPEAN JOURNAL OF CANCER*. vol. 34, pp. 927-930
- 28) ESPOSITO D.L., BLAKESLEY VA, KOVAL AP, SCRIMGEOUR AG, LEROITH D. (1997). Tyrosine residues in the C-terminal domain of the insulin-like growth factor-I receptor mediate mitogenic and tumorigenic signals. *ENDOCRINOLOGY*. vol. 138, pp. 2979-2988
- 29) BLAKESLEY VA, SCRIMGEOUR A, ESPOSITO D.L., LE ROITH D. (1996). Signaling via the insulin-like growth factor-I receptor: does it differ from insulin receptor signaling? *CYTOKINE & GROWTH FACTOR REVIEWS*. vol. 7, pp. 153-159
- 30) ESPOSITO D.L., MAMMARELLA S, RANIERI A, DELLA LOGGIA F, CAPANI F, CONSOLI A, MARIANI-COSTANTINI R, CARAMIA FG, CAMA A, BATTISTA P. (1996). Deletion of Gly723 in the insulin receptor substrate-1 of a patient with noninsulin-dependent diabetes mellitus. *HUMAN MUTATION*. vol. 7, pp. 364-366
- 31) CAMA A, PALMIROTTA R, CURIA MC, ESPOSITO D.L., RANIERI A, FICARI F, VALANZANO R, BATTISTA P, MODESTI A, TONELLI F, ET AL. (1995). Multiplex PCR analysis and genotype-phenotype correlations of frequent APC mutations. *HUMAN MUTATION*. vol. 5, pp. 144-152
- 32) OTTINI L, ESPOSITO D.L., RICHETTA A, CARLESIMO M, PALMIROTTA R, VERI MC, BATTISTA P, FRATI L, CARAMIA FG, CALVIERI S, ET A. (1995). Alterations of microsatellites in neurofibromas of von Recklinghausen's disease. *CANCER RESEARCH*. vol. 55, pp. 5677-5678
- 33) PALMIROTTA R, CURIA MC, ESPOSITO D.L., VALANZANO R, MESSERINI L, FICARI F, BRANDI ML, TONELLI F, MARIANI-COSTANTINI R, BATTISTA P, ET AL. (1995). Novel mutations and inactivation of both alleles of the APC gene in desmoid tumors. *HUMAN MOLECULAR GENETICS*. vol. 4, pp. 1979-1981
- 34) CAMA A, ESPOSITO D.L., PALMIROTTA R, CURIA MC, RANIERI A, FICARI F, VALANZANO R, MODESTI A, BATTISTA P, TONELLI F, ET AL. (1994). A novel mutation at the splice junction of exon 9 of the APC gene in familial adenomatous polyposis. *HUMAN MUTATION*. vol. 3, pp. 305-308

- 35) CAMA A, PALMIROTTA R, ESPOSITO D.L., CURIA MC, RANIERI A, FICARI F, VALANZANO R, BATTISTA P, FRATI L, TONELLI F, ET AL. (1994). A novel deletion in exon 15 of the adenomatous polyposis coli gene in an italian kindred. HUMAN MUTATION. vol. 3, pp. 301-304
- 36) VECCHIONE A, CERMELE C, GIOVAGNOLI MR, VALLI C, ALIMANDI M, CARICO E, ESPOSITO D.L., MARIANI-COSTANTINI R, FRENCH D. (1994). p53 expression and genetic evidence for viral infection in intraepithelial neoplasia of the uterine ce. GYNECOLOGIC ONCOLOGY. vol. 55, pp. 343-348
- 37) CIRAFICI AM, PEPE S, MINCIONE G, ESPOSITO D.L., COLLETTA G. (1992). TGF beta inhibits rat thyroid cell proliferation without alterations in the expression of TSH-induced cell cycle-related genes. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. vol. 187, pp. 225-233
- 38) CELLINI L, DEL VECCHIO A, ROBUFFO I, ESPOSITO D.L., DI CAMPLI E, PICCOLOMINI R. (1991). Aspetti microbiologici comparativi sulle infezioni del tratto urinario in pazienti ospedalizzati ed ambulatoriali. L'IGIENE MODERNA. vol. 95, pp. 224-238

Chapter in International Books

- 1) Palmirotta R, Esposito DL, Cama A, Battista P, Valanzano R, Ficari F, Tonelli F, Navarra G, Cataldi S, Mariani Costantini R, Frati L. Molecular basis of familial adenomatous polyposis coli. in "Trends in colorectal cancer" (Franchi F., Seminara P., Codacci Pisanelli G., eds.)Teda, Castrovillari. 1994, pp. 29-40
- 2) LeRoith D, Parrizas M, Esposito DL, Werner H, and Blakesley V. The Insulin-like Growth Factor-1 Receptor: Implications for Ovarian physiology In: Proceedings of the International Symposium on the role of Insulin-like Growth Factors in ovarian Physiology. (D. LeRoith, Editor), Ares Serono, 1997
- 3) Prasad SC, Paties CT, Schiavi F, Esposito DL, Lotti LV, Mariani-Costantini R, Sanna M. Tympanojugular Paragangliomas: Surgical Management and Clinicopathological Features. In: Mariani-Costantini R, editor. Paraganglioma: A Multidisciplinary Approach [Internet]. Brisbane (AU): Codon Publications; 2019 Jul 2. Chapter 6.

International Meetings "IN EXTENSO"

- 1) Palmirotta R, Curia MC, Veri MC, Aceto G, **Esposito DL**, Messerini L, Stigliano V, Guadagni F, Fracasso P, Casale V, Valanzano R, Ficari F, Tonelli F, Battista P, Mariani Costantini R., Cama A. Molecular studies of kindreds with hereditary colorectal cancer. Proceedings of European Workshop on: "Organization of networks for genetic counselling and molecular diagnostic of cancer syndromes". Sestri Levante (Genoa)- March 31, 1996. 1-7.
- 2) Blakesley VA, **Esposito DL**, Scrimgeour AG, Koval AP, Stannard BS, and LeRoith D. Roles of the tyrosine residues in the carboxy-terminal domain of the IGF-I receptor. Exp Clin Endocrinol Diabetes, 1996; 104 (suppl.2): 19-21
- 3) Armoni M, Shapiro A, Quon MJ, **Esposito D**, Zipris D and Karnieli E. GLUT4 Promoter is Transactivated by PAX/FKHR Oncoprotein In Vivo and In Vitro. VII International Symposium on Insulin Receptors & Insulin Action: Molecular and Clinical Aspects. Jerusalem, Israel, May 16-20, 1998 p 117-118, 0-68

National and International Meetings

- 1) Pagotto S, De Fabritiis S, Di Camillo C, Del Pizzo F, Perconti S, **Esposito DL**, Sanna M Simeone P, Lanuti P, Iezzi M, Mariani-Costantini R, Verginelli F, Visone R. Tertiary lymphoid structure formation in patient-derived xenograft (PDX) of head and neck paraganglioma: A novel xenogeneic model. CANCER RESEARCH. Volume85 Issue8 Supplement 1 Meeting Abstract 1278 Annual Meeting of the American-Association-for-Cancer-Research (AACR)

Chicago, IL, APR 25-30, 2025 Online ISSN: 1538-7445 Print ISSN: 0008-5472
<https://doi.org/10.1158/1538-7445.AM2025-1278> WOS:001499827502217

2) Alessandra Cossa, Sara Pagotto, Silvia Perconti, Elisa Taschin, Elena Sofia Scialis, Simone De Fabritiis, Maria Elena Aloini, **Diana Liberata Esposito**, Iolanda Matarazzo, Fabio Verginelli, Lavinia Vittoria Lotti, Francesca Schiavi, Renato Mariani Costantini & Antonio Stigliano Advanced ACC stage: Therapeutic approach and biological findings. 26th European Congress of Endocrinology, Stockholm, Sweden. 11 May 2024 - 14 May 2024 Endocrine Abstracts ISSN 1470-3947 (print) | ISSN 1479-6848 (online) Endocrine Abstracts (2024) 99 Poster 504 DOI: 10.1530/endoabs.99.P504

3) D'Amario I, Fancello G, De Fabritiis S, Lattanzio R, Taschin E, Schena A, Perconti S, Paties Ct, Piras G, Lotti Lv, Zangrandi A, Sanna M, Schiavi F, Mariani-Costantini R, Verginelli F and **Esposito DL**. Pathogenic Role of the R200W VHL Mutation in Carotid Body Paraganglioma: A Case Study and Population Implications. SIPMet 2024 Translational Pathophysiology, Udine, September 19 th – 21 th, 2024. (Presentazione poster)

4) De Fabritiis S, Valentinuzzi S, Cicalini I, D'Amario I, Pierleoni E, **Esposito DL**, Pagotto S, Perconti S, Pieragostino D, Piras G, Sanna M, Pantalone Mr, Söderberg-Naucler C, Del Boccio P, Mariani-Costantini R, Verginelli F. Plasma metabolomics of neural crest cancer patients as a diagnostic tool. General Pathology: the trunk of the tree of medicine - SIPMeT Young Scientist Meeting 2023, 22-23 Settembre 2023, Parma, Italia. (Presentazione poster)

5) **Esposito DL**, Verginelli F, Fancello G, Scialis Es, Taschin E, Schena A, Lattanzio R, Fancello V, Pagotto S, Perconti S, De Fabritiis S, D'Amario I, Paties Ct, Piras G, Lotti LV, Zangrandi A, Sanna M, Schiavi F, Mariani-Costantini R. Rare germline SDHAF2 and VHL mutations in a Gruppo Otologico head and neck paraganglioma series. First International congress, 2023 – Update on the management of Head and Neck paragangliomas. 20-22 Settembre 2023, Piacenza, Italia. (Presentazione poster)

6) Mariani-Costantini R. Destabilization of the mitochondrial proton pumps and mitochondrial remodeling distinguish head and neck paraganglioma from cranial parasympathetic nerve. First International congress, 2023 – Update on the management of Head and Neck paragangliomas. 20-22 Settembre 2023, Piacenza, Italia. (Presentazione Orale)

7) **Esposito DL**, Lattanzio R, Vacca M, Perconti S, Schiavi F, Failli M, Napolitano F, Piras G, Paties Ct, Zangrandi A, Aceto G, Moscatello C, Pagotto S, Vespa S, De Fabritiis S, Pantalone Mr, Scialis Es, Sanna M, Söderberg Nauclér C, Lotti LV, Verginelli F, Mariani-Costantini R. Complementary hypoxia molecular phenotypes in head and neck paragangliomas. 6th International Symposium on Pheochromocytoma, 19-22 Ottobre 2022, Praga, Repubblica Ceca. (Presentazione Orale).

8) De Fabritiis S, Valentinuzzi S, Cicalini I, **Esposito DL**, Pagotto S, Perconti S, Pieragostino D, Piras G, Sanna M, Verginelli F, Del Boccio P, Mariani-Costantini R. A plasma metabolomic signature of head and neck paraganglioma, 6th International Symposium on Pheochromocytoma, 19-22 Ottobre 2022, Praga, Repubblica Ceca. (Presentazione Orale)

9) D'Amario I, De Fabritiis S, **Esposito DL**, Pierleoni E, Fucito M, Pagotto S, Perconti S, Del Boccio P, Sanna M, Ammazalorso A, Mariani-Costantini R, Verginelli F. Effects of treatment with ppar-a receptor modulators on preclinical models of HCMV infection. Pathophysiology of Disease - SIPMeT Congress 2022, Ancona 22-24 Settembre 2022. (Presentazione poster)

10) De Fabritiis S, Valentinuzzi S, Cicalini I, **Esposito DL**, Pieragostino D, Piras G, Sanna M, Verginelli F, Del Boccio P, Mariani-Costantini R. A plasma metabolomic signature of head and neck paraganglioma, The 12th European Workshop on Cell Death, 26 Giugno- 01 Luglio 2022, Fiuggi, Italia (Presentazione Orale)

11) De Fabritiis S, Verginelli F, Collesei A, Vespa S, Lanuti P, Pantalone Mr, **Esposito DL**, Perconti S, D'Amario I, Pagotto S, Piras G, Sykopetrites V, Soderberg-Naucler C, Lotti Lv, Sanna M, Schiavi F, Mariani-Costantini R. PGLHV, a putatively new cytomegalovirus-related virus

implicated in paraganglioma. SIPMet Young Scientist Meeting, Perugia, Italy, 10-11 Dicembre 2021- Molecular Pathology: from bench to bedside. (Presentazione poster)

12) Verginelli F; De Fabritiis S; Vespa S, Pantalone, Mr, Soliman S, Lanuti P; Vitaj J; **Esposito DL**; Perconti S, Valentinuzzi S, Angelini A, Talucci I; Schiavi F; Piras G; Sanna M, Lotti LV, Söderberg-Naucler C, Mariani-Costantini R. CMV Infection Modulates HIF Signaling in Paraganglioma. Meeting 2nd AMP Europe Congress on Clinical Genomics - Beyond the Somatic Mutation, Milan, ITALY MAY 11-13, 2020 In Journal Of Molecular Diagnostics 2020 May 1 (Vol. 22, No. 5, Pp. S88-S88). Ste 800, 230 Park Ave, New York, Ny 10169 Usa Elsevier Science Inc. ISSN1525-1578 eISSN1943-7811 WOS:000535952500169

13) De Fabritiis S, Verginelli F, Vespa S, Soliman S, Pantalone MR, Perconti S, **Esposito DL**, Valentinuzzi, Lanuti P, Celenza R, Angelini A, Vitaj J, Talucci I, Schiavi F, Di Marco M, Piras G, Vlad D, Sanna M, Lotti LV, Söderberg-Naucler C, Mariani-Costantini R. CMV infection modulates HIF signaling in paraganglioma. 18th EUROPEAN NETWORK FOR THE STUDY OF ADRENAL TUMOURS, Uppsala, Sweden, 21-22 November 2019 (Poster presentation).

14) Vespa S, Pantalone M.R, Aureli A.V, Verginelli F, Perconti S, **Esposito DL**, Valentinuzzi S, Angelini A, De Fabritiis S, Piras G, Vlad D, Paties C.T, Söderberg-Naucler C, Sanna M, Lotti L.V, Mariani-Costantini R. Ultrastructural and immunomorphological characterization of CMV infection in paragangliomas and derived xenografts. 18th EUROPEAN NETWORK FOR THE STUDY OF ADRENAL TUMOURS, Uppsala, Sweden, 21-22 November 2019 (Poster presentation).

15) S. De Fabritiis, F. Verginelli, S. Vespa, S. Soliman, P. Lanuti, M.R. Pantalone, S. Perconti, **D.L. Esposito**, S. Valentinuzzi, R. Celenza, A. Angelini, J. Vitaj, I. Talucci, F. Schiavi, A.M. Di Marco, S. Pagotto, A. Veronese, E. Pasanisi, R. Visone, D. Vlad, C. Soderberg-Naucler, L.V. Lotti, M. Sanna, R. Mariani-Costantini. CMV infection modulates hif signaling in paraganglioma. PATHOBIOLOGY: FROM MOLECULAR DISEASE TO CLINICAL APPLICATION. SIPMeT Young Meeting 13th-14th September 2019, Florence (Poster presentation).

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Funded research projects

Telethon 1997: (1997-1999, 61.975€) project title "Characterization of Non-Conservative Amino Acid Variants of The Insulin Receptor Substrate-1 Detected in Patients With NIDDM" (P.I. Dott.ssa Esposito Diana Liberata)

AIRC 2009- (2009-2012, 180.000,00 Euro) project title "Probing hypoxia-driven oncogenic progression via pathway dependencies: the paraganglioma paradigm" (P.I. Prof R. Mariani-Costantini; Position in the project: Staff researcher in molecular biology

AIRC 2015- (2016-2018, 263.000,00 Euro) project title "New role of HCMV in head/neck paraganglioma: functional loops controlled by host miRNAs and novel therapeutic targets" Grant protocol: IG16932 (P.I. Prof R. Mariani-Costantini; Position in the project: Staff researcher in molecular biology

AIRC 2020 - (2021-2026, 701,000.00 Euro) project title "Cytomegalovirus infection impacts on neural crest programs to drive paraganglioma development". Grant protocol: IG 2020 ID 24501 (P.I. Prof R. Mariani-Costantini). Position in the project: Staff researcher in molecular biology

Teaching activities

2003 -present: Teacher in Pathophysiology of Metabolism (1 CFU) in the course of General Pathology and Pathophysiology within the Degree Program in Medicine and Surgery, University "G. D'Annunzio" of Chieti-Pescara.

2015-present: Teacher in Cellular Pathology Internship (1 CFU) in the course of General Pathology and Pathophysiology within the Degree Program in Medicine and Surgery, University "G. D'Annunzio" of Chieti-Pescara.

2024 -present: Teacher in General Pathology (4 CFU) in the Integrated Course of General Pathology, Clinical and Pharmacology within the Degree Program in Dietistic, University "G. D'Annunzio" of Chieti-Pescara.;

2024 -present: Teacher in Elective Activities First Year, (2 CFU) within the Degree Program in Dietistic, University "G. D'Annunzio" of Chieti-Pescara.;

2025- Teacher in General Pathology (3 CFU) within the Degree Program in Dentistry and Dental Prosthetics, University "G. D'Annunzio" of Chieti-Pescara.

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

March 17, 2026

Diana Liberata Esposito
