

CURRICULUM VITAE

Name: Diana Liberata 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, Medicine and Surgery, 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

Educational activities and Research Experiences:

2002-present: Assistant Professor, full position, General Pathology, Medicine and Surgery University G. d'Annunzio Chieti-Pescara.

Responsible for teaching: physiopathology of metabolism, training in cellular pathology, general pathology. Tutor for students (thesis and PhD) and examinations.

The focus of her research involves the study of signal transduction pathways regulating physiological and pathological processes, molecular genetics, viral carcinogenesis and microRNA functional studies 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: AIRC 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

Ad-hoc reviewer: Diabetology & Metabolic Syndrome, Journal of Molecular Histology, Journal of Gastroenterology and Hepatology,

Selected Editorial board member: Scientific Journal of Genetics and Gene Therapy

Publications:

- 1) 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
- 2) 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, TASCHIN 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.
- 3) 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.
- 4) 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.
- 5) 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.
- 6) 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
- 7) 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
- 8) 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
- 9) 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
- 10) 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

- 11) 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
- 10) 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
- 12) 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
- 13) 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
- 14) 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
- 15) 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
- 16) 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
- 17) 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
- 18) 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
- 19) 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
- 20) 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
- 21) 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
- 22) 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

- 23) 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
- 24) 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
- 25) 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
- 26) BLAKESLEY VA, SCRIMGEOUR A, ESPOSITO D.L., LEROITH 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
- 27) 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
- 28) 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
- 29) OTTINI L, ESPOSITO D.L., RICHETTA A, CARLESIMO M, PALMIROTTA R, VERI MC, BATTISTA P, FRATI L, CARAMIA FG, CALVIERI S, ET AL. (1995). Alterations of microsatellites in neurofibromas of von Recklinghausen's disease. *CANCER RESEARCH*. vol. 55, pp. 5677-5678
- 30) 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
- 31) 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
- 32) 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
- 33) 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
- 34) CIRAFICI AM, PEPE S, MINCIONE G, ESPOSITO D.L., COLLETTA G. RELATED ARTICLES, LINKS. (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
- 35) 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)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-Nauclér 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).
- 2) Vespa S, Pantalone M.R, Aureli A.V, Verginelli F, Perconti S, Esposito D.L, Valentinuzzi S, Angelini A, De Fabritiis S, Piras G, Vlad D, Paties C.T, Söderberg-Nauclér 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).
- 3) 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-Nauclér, 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).
- 4) S. Valentinuzzi, M.R. Pantalone, F. Verginelli, S. Vespa, S. De Fabritiis, D.L. Esposito, A. Angelini, F. Schiavi, A. Veronese, E. Pasanisi, R. Visone, H.L. Cui, D. Vlad, S. Perconti, A. Rahbar, M. Sanna, C. Söderberg-Nauclér, L.V. Lotti, R. Mariani-Costantini. CMV non-coding beta2.7 rna

promotes mitochondrial complex I dysfunction in paraganglioma via overexpression of NDUFA412. PATHOBIOLOGY: FROM MOLECULAR DISEASE TO CLINICAL APPLICATION. SIPMeT Young Meeting 13th-14th September 2019, Florence (Poster presentation).

5) S. Vespa, M.R. Pantalone, A.V. Aureli, F. Verginelli, S. Perconti, D.L. Esposito, S. Valentinuzzi, A. Angelini, S. De Fabritiis, E. Pasanisi, D. Vlad, C.T. Paties, C. Söderberg-Naucler, M. Sanna, R. Mariani-Costantini, L.V. Lotti. Ultrastructural and immunomorphological characterization of CMV infection in paragangliomas and derived xenografts. PATHOBIOLOGY: FROM MOLECULAR DISEASE TO CLINICAL APPLICATION. SIPMeT Young Meeting 13th-14th September 2019, Florence (Poster presentation).

6) Diana Liberata Esposito, Fabio Verginelli, Mattia Russel Pantalone, Silvia Perconti, Vittoria Tarantini, Silvia Valentinuzzi, Alice Ramassone, Simone De Fabritiis, Simone Vespa, Angelo Veronese, Mario Sanna, Rosa Visone, Cecilia Söderberg Nauclér, Lavinia Vittoria Lotti, Renato Mariani-Costantini. Hsa-miR-200 and hsa-miR34 miRNA family members target cellular and viral genes regulating HCMV infection in head and neck paraganglioma. Cancer And Metabolism Conference, 25-27 Jun 2018, Fitzwilliam College University of Cambridge, Cambridge, UK, pg 56

7) Diana Liberata Esposito, Michele Vacca, Fabio Verginelli, Francesco Napolitano, Silvia Valentinuzzi, Gitana Aceto, Carmelo Moscatello, Rossano Lattanzio, Mattia Russel Pantalone, Silvia Perconti, Simone Vespa, Francesca Schiavi, Mario Sanna, Cecilia Söderberg Nauclér, Lavinia Vittoria Lotti, Renato Mariani-Costantini. Molecular expression profiling shows overlapping pseudohypoxia phenotype and mitochondrial dysfunction in head and neck paragangliomas. Mechanisms to Therapies: Innovations in Cancer Metabolism. Bilbao, Spain: 9 - 11 October 2018, pg 78

8) Verginelli, F.; Esposito, D. L.; Pantalone, M. R.; Perconti, S.; Vespa, S.; Schiavi, F.; Soliman, S.; De Fabritiis, S.; Tarantini, V.; Valentinuzzi, S.; Di Marco, M.; Ramassone, A.; Florio, R.; De Lellis, L.; Sheu, A.; Serluca, M.; Cama, A.; Prasad, S. C.; Veronese, A.; Visone, R.; Paties, C.; Söderberg-Nauclér, C.; Lotti, L. V.; Sanna, M.; Mariani-Costantini, R. A possible role of a CMV-like virus in head and neck paraganglioma pathogenesis. 34th SIPMET national congress, Catania 23-25 Ottobre 2018 Journal Of Biological Regulators & Homeostatic Agents 2018 Vol 32: 137-138 ISSN 0393-974X/2017

9) Pantalone, M. R.; Verginelli, F.; Perconti, S.; Arzenani, M. K.; Esposito, D. L.; Vespa, S.; Schiavi, F.; Sheu, A.; Valentinuzzi, S.; De Fabritiis, S.; Taschin, E.; Tarantini, V.; Soliman, S.; Ramassone, A.; Di Marco, M.; Serluca, M.; Vlad, D.; Veronese, A.; Visone, R.; Zangrandi, A.; Opocher, G.; Paties, C. T.; Rahbar, A.; Sanna, M.; Söderberg Nauclér, C.; Lotti, L. V.; Mariani-Costantini, R. Possible role of a CMV-like virus in paragangliomas. 17th ENS@T Scientific Meeting 22-23 November 2018, Florence, Italy pg 29-30

10) Mariani-Costantini, R.; Perconti, S.; Verginelli, F.; Vespa, S.; Pantalone, M. R.; Schiavi, F.; Valentinuzzi, S.; Napolitano, F.; Vlad, D.; Vacca, M.; De Fabritiis, S.; Raiconi, G.; Tagliaferri, R.; Lanuti, P.; Cama, A.; Esposito, D. L.; Guarnieri, S.; Sheu, A.; Florio, R.; Morgano, A.; Rossi, C.; Bologna, G.; Marchisio, M.; Taschin, E.; Visone, R.; Veronese, A.; Opocher, G.; Zangrandi, A.; Paties, C. T.; Sanna, M.; Söderberg Nauclér, C.; Lotti, L. V. A developmental model of paragangliar tumorigenesis highlights therapeutic targets. 17th ENS@T Scientific Meeting 22-23 November 2018, Florence, Italy pg 89-90

11) Esposito, D. L.; Verginelli, F.; Pantalone, M. R.; Failli, M.; Schiavi, F.; Perconti, S.; Valentinuzzi, S.; Vacca, M.; Napolitano, F.; Vespa, S.; Aceto, G. M.; Moscatello, C.; Lattanzio, R.; Zangrandi, A.; Rahbar, A.; Vlad, D.; Paties, C. T.; Sanna, M.; Opocher, G.; Lotti, L. V.; Söderberg Nauclér, C.; Mariani-Costantini, R. Molecular expression profiling shows pseudohypoxia phenotype, vasculogenesis and mitochondrial dysfunction in head and neck paragangliomas. 17th ENS@T Scientific Meeting 22-23 November 2018, Florence, Italy pg 107-108

- 12) Esposito DL, Verginelli F, Perconti S, Visone R, Veronese A, D'Argenio A, Morgano A, Liberatoscioli ML, Schiavi F, Opocher G, Cama A, Florio R, Romagnoli M, Di Monte J, Paties CT, sanna M, Martino S, Lotti LV and Mariani-Costantini R. PDGFRA is controlled by miRNAs in head and neck paraganglioma cells: in vitro and in vivo treatment with imatinib mesylate. Cancer and metabolism 2015. Robinson College Cambridge, UK September 28-30, 2015 Abstract N. 35
- 13) Esposito DL, Aru F, Morgano A, Lattanzio R, Modica S, Piantelli M, Lotti L.V., Russo A, Moschetta A, Mariani-Costantini R. Modulation of insulin receptor substrate-1 expression is related to differentiation in human colorectal epithelium and colorectal cancer. EJC supplements, 20th Meeting of the European Association for Cancer Research (EACR 20), (ISSN 1359-6349), Lyon, France, 5-8 July 2008 Abstract pg 93.
- 14) Montagnani M, Esposito DL, Quon MJ. Insulin-stimulated activation of eNOS requires IRS-1 to couple signaling from the insulin receptor to PI 3-kinase pathways. 61st scientific sessions June 22- 26 2001, Philadelphia, Pennsylvania, USA, Diabetes June 2001, volume 50, supplement 2 ISSN 012-1797 Abstract N. 1238P
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