CURRICULUM VIATE

AGATA GRAZIA D'AMICO

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Professor of Human Anatomy (SSD/BIO 16)

Born in Catania, Italy

August 12, 1986

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CURRENT POSITION

Associate Professor of Human Anatomy

University of Catania, Italy

Department of Drug and Health Sciences

EDUCATION

- *July 2018*. MEDICAL UNIVERSITY OF GDAŃSK. Certificate of attendance for School of Anatomical Dissection (150 hours).
- *October 2010 - October 2013:* PhD in International program in Neuropharmacology. Thesis entitled "Role of Dopamine D_3 receptor in the regulation of memory-related genes". University of Catania.
- *October 2010:* Pharmacy degree. Experimental Thesis in pharmaceutical technology entitled "Preparation, characterization and biological efficacy studies of PLGA nanospheres carrier Docetaxel". University of Catania.

WORK EXPERIENCE

- 11/2023 – to date: Associate Professor of Human Anatomy at the Department of Drug and Health Sciences University of Catania, Italy.
- 2018 - 11/2023: Professor of Human Anatomy (Undergraduate program Motor Science and Undergraduate program Motor Science - Football), Anatomy and Adapted Physiology (Graduate Program Motor Science), Fundamentals of Physiology and Anatomy (Undergraduate program Nutrition and Gastronomy), Department of Human Science and Promotion of Quality of Life, San Raffaele Telematic University of Rome, Italy.
- 09/2013 - 12/2013. Pre-doctoral experience in the Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, Semmelweis University, Budapest, to acquire whole cell voltage clamp method and Clampfit 10.2 software to analyze the data.
- 2014/2015. Post-doctoral fellow (SSD BIO/16) in the context of the realization of the industrial research project "HIPPOCRATES - PON02_00355 named "Identification of biological markers of retinopathies: development of experimental protocols and validation" - Sicilian Micro Technology District and Nano Sistemi S.c.a.r.l. ACADEMIC POSITIONS
- 2016-2017. Lecturer of Human Anatomy for the Graduate Program in Applied Pharmaceutical Sciences. University of Catania.
- 2016-2017. Lecturer of Human Anatomy for the Graduate Program in Chemical and Pharmaceutical Technology. University of Catania.
- 05/05/2017- 05/10/2017. Professor of Human Anatomy (Graduate program in Pharmacy). University of Catania.
- 12/2013 to 12/ 2015. Adjunct Professor for the integrative course of "Microscopic investigations".

EDITORIAL ACTIVITY

- Editorial Board Member for Journal of Functional Morphology and Kinesiology (ISSN 2411-5142), an Open Access Journal by MDPI.
- Section Board Member for Brain Sciences (ISSN 2076-3425)– MDPI.
- Section Board Member for Biomedicines (ISSN 2227-9059) – MDPI.
- Editor Board Member Annals of Anatomy and Research – MEDDOCS
- Guest Editors for Journal of Oncology, Special Issue "Role of Molecular Chaperones in Carcinogenesis: Mechanism, Diagnosis, and Treatment".
- Co-Guest Editor for Journal of Functional Morphology and Kinesiology, Special Issue "Physical Activity Improves Muscle-Cognitive Performance: Impact in Quality of Life".
- Guest Editor for Biomedicines, Special Issue "Biomarkers and New Therapeutical Strategies for Cancer Diagnosis and Treatment".
- Guest Editor for Biomedicines, Special Issue "Biomarkers and New Therapeutical Strategies for Cancer Diagnosis and Treatment (Volume II)".
- Guest Associate Editor for Ophthalmology in Frontiers in Medicine, Research Topic "Uveal Melanoma: From Lab Bench to Clinic - New Therapeutic Advances".
- Guest Editor for Brain Sciences, Special Issue "Identification of Molecular Targets and Anti-cancer Agents in Glioblastoma Multiforme: New Perspectives for Cancer Therapy".

PEER REVIEWER FOR THE FOLLOWING SCIENTIFIC JOURNALS

Cell Stress and chaperon; Brain Science; Biomedicine; Computational Biology and Chemistry; International Journal of Molecular Sciences; Journal Archives of Medical Research; Journal of functional morphology and kinesiology; Neuropeptides; Neuroscience; PLOSone; Cancers; Reproductive Biology; Stem cell international; International Journal of Peptide Research and Therapeutics; Cancer Biology & Therapy; Biomedical Journal; Critical Reviews In Biochemistry & Molecular Biology.

AWARDS

- **2021.** Awarded Best Young Researcher for the quality of scientific activity SSD BIO/16, conferred at the 74th National Congress of the Italian Society of Anatomy and Histology

- **2018.** Awarded National Scientific Habilitation (ASN) to Associate Professor in Human Anatomy SSD BIO/16
- **2014–2015.** Awarded a Post-doctoral fellow (SSD BIO/16) for the industrial research project "HIPPOCRATES-PON02_00355", University of Catania
- **2010.** Awarded a scholarship to attend the Ph.D. International Program in Neuropharmacology, University of Catania

PROFESSIONAL ASSOCIATIONS

- Member of the Italian Society of Anatomy and Histology (SIAI)
- Member of Italian Group Neuromorphology (GISN)
- Member of Italian Society of Experimental Biology (SIBS)

SPEAKING AT ACADEMIC CONFERENCES

- **XXXII National Conference of the Italian Group for the Study of Neuromorphology** (GISN). Title: "Pituitary adenylyl cyclase-activating peptide (PACAP) counteracts glioblastoma progression by interfering with hypoxic signaling pathway". Naples, November 26-27, 2022.
- **International Conference VIP/PACAP and Related Peptides joint symposium** (VPAC ISBAP 2022). Title: "PACAP neuroprotective effects: focus on antiinvasive role exerts in Glioblastoma multiforme". Osaka, Japan, Osaka International Convention Center October 30 - November 2, 2022.
- **94° National Conference of Italian Society of Experimental Biology (SIBS)**. Title: "Glioblastoma multiforme: identification of a new pharmacological target interfering with uncontrolled neoangiogenesis" Turin, April 6 -9, 2022.
- **93° National Conference of Italian Society of Experimental Biology (SIBS).** Title: "PACAP neuroprotective effects: focus on anti-invasive role exerted in glioblastoma multiforme". Palermo, April 22-25, 2021.
- **XXXI National Conference of the Italian Group for the Study of Neuromorphology** (GISN). Title: "*Activity-dependent neuroprotective protein (ADNP) involvement in GBM*". Milan, Novembre 26-27, 2021.
- **Virtual National Conference of Neuron Disease: understanding the pathogenic mechanism to develop therapies.** Title: "PACAP *counteracts motorneurons degeneration*

by modulating autophagy process in an in vitro model of Amyotrophic Lateral Sclerosis". Torino, November 6-7, 2020.

- **XXX National Conference of the Italian Group for the Study of Neuromorphology** (GISN). Title: "*PACAP and VIP counteract glioblastoma and neuroblastoma progression*". Turin, November 12-14,2020.
- **73° National Congress of the Italian Society of Anatomy and Histology** (SIAI). Title: "*PACAP counteracts motorneuron degeneration via downregulation of autophagy process in an in vitro model of amyotrophic lateral sclerosis*". Naples, September 22-24,2019.
- **National Congress of Mind in Motion, motor activity and neuroscience**. Title: "Hippocampal *neurogenesis induced by physical exercise*". Catania, June 12, 2019.
- **Convegno Update In Neuroscienze Di Base: Morfologia E Dintorni.** Title: "*Asse PACAP-ADNP: effetto protettivo svolto nella retinopatia diabetica*". Palermo, January 21-22, 2019.
- **XXVIII National Conference of the Italian Group for the Study of Neuromorphology** (GISN). Title: "*Involvement of PACAP-ADNP axis in diabetic retinopathy*". Florence, November 30, 2018.
- **72° National Congress of the Italian Society of Anatomy and Histology** (SIAI). Title:"*NAP modulates inflammatory cytokines release and counteracts outer blood-retinal barrier breakdown in diabetic rat retina*". Parma, September 20-22, 2018.
- **71° National Congress of the Italian Society of Anatomy and Histology** (SIAI). Title: "*Effect of NAP in diabetic retinopathy*". Messina, Taormina, September 20-22, 2017.
- **70° National Congress of the Italian Society of Anatomy and Histology** (SIAI). Title: "*Ameliorative effect of VIP family members on blood-retinal barrier breakdown in diabetic macular edema*". Rome, September 15-17, 2016.
- **36° Congresso Nazionale della Società Italiana di Istochimica.** Title: "*PACAP modulates expression of Hypoxia Inducible Factors in the early phase of diabetic retinopathy*". PISA, June 7-10, 2015.

GRANTS

- Member of the research unit for the project: Research and Innovation - Area of specialization: Health - ARS01_01163. Project Title: "PerMedNet - Personalized Medicine for Innovative Strategies in Neuro-Psychiatric and Vascular Diseases"
- Collaborator for the industrial reaserch grant:" HIPPOCRATES - PON02_00355 - Distretto Tecnologico Sicilia Micro e Nano Sistemi S.c.a.r.l."

- Principal Investigator of 3 "Starting Grant" (D.R. del 11.02.2020 n. 1208) entitled "Effetto regolatorio dell'asse PACAP-ADNP e sua modulazione nel GlioblastomA MultiformE"

RESEARCH INTERESTS

MY research of interest is in the field of Neuroscience within specific research focuses (1) Study of the molecular and cellular processes underlying tumor progression aiming to identify carcinogenic biomarkers and new therapeutic targets. (2) Investigate the morphological and molecular aspects characterizing neurodegenerative diseases including amyotrophic lateral sclerosis (ALS) and diabetic retinopathy DR). (3) Characterize the physiological role of the vasoactive intestinal polypeptide (VIP) and pituitary adenylate cyclase-activating polypeptide (PACAP) and their involvement in neurodegenerative diseases (ALS and DR).

LIST OF SCIENTIFIC CONTRIBUTIONS

https://www.scopus.com/authid/detail.uri?authorId=57194379682

1. Zingale E., Bonaccorso A., D'Amico A.G., Lombardo R., D'Agata V., Rautio J., and Pignatello R., *Formulating Resveratrol and Melatonin Self-Nanoemulsifying Drug Delivery Systems (SNEDDS) for Ocular Administration Using Design of Experiments.* Pharmaceutics, 2024. 16(1). 10.3390/pharmaceutics16010125
2. Magrì B., D'Amico A.G., Maugeri G., Morello G., La Cognata V., Saccone S., Federico C., Cavallaro S., and D'Agata V., *Neuroprotective effect of the PACAP-ADNP axis on SOD1G93A mutant motor neuron death induced by trophic factors deprivation.* Neuropeptides, 2023. 102: p. 102386. 10.1016/j.npep.2023.102386
3. Maugeri G., D'Amico A.G., Magrì B., Giunta S., Saccone S., Federico C., Bucolo C., Musumeci G., and D'Agata V., *Protective effect of pituitary adenylate cyclase activating polypeptide in diabetic keratopathy.* Peptides, 2023. 170: p. 171107. 10.1016/j.peptides.2023.171107
4. D'Amico A.G., Maugeri G., Magrì B., Lombardo C., Saccone S., Federico C., Cavallaro P., Giunta S., Bucolo C., and D'Agata V., *PACAP-ADNP axis prevents outer retinal barrier breakdown and choroidal neovascularization by interfering with VEGF secreted from retinal pigmented epitelium cells.* Peptides, 2023. 168: p. 171065. 10.1016/j.peptides.2023.171065
5. Sturiale V., Bruno F., Brancato D., D'Amico A.G., Maugeri G., D'Agata V., Saccone S., and Federico C., *Cell Cycle Reactivation, at the Start of Neurodegeneration, Induced by Forskolin and Aniline in Differentiated Neuroblastoma Cells.* Int J Mol Sci, 2023. 24(18). 10.3390/ijms241814373
6. La Cognata V., D'Amico A.G., Maugeri G., Morello G., Guarnaccia M., Magrì B., Aronica E., Alkon D.L., D'Agata V., and Cavallaro S., *The ε-Isozyme of Protein Kinase C (PKCε) Is Impaired in ALS Motor Cortex and Its Pulse Activation by Bryostatin-1 Produces Long Term*

Survival in Degenerating SOD1-G93A Motor Neuron-like Cells. Int J Mol Sci, 2023. 24(16). 10.3390/ijms241612825

7. D'Amico A.G., Caruso Bavisotto C., and Virtuoso A., *Identification of Molecular Targets and Anti-Cancer Agents in GBM: New Perspectives for Cancer Therapy.* Brain Sci, 2023. 13(7). 10.3390/brainsci13071078
8. La Cognata V., D'Amico A.G., Maugeri G., Morello G., Guarnaccia M., Magrì B., Aronica E., D'Agata V., and Cavallaro S., *CXCR2 Is Deregulated in ALS Spinal Cord and Its Activation Triggers Apoptosis in Motor Neuron-Like Cells Overexpressing hSOD1-G93A.* Cells, 2023. 12(14). 10.3390/cells12141813
9. Giunta S., D'Amico A.G., Maugeri G., Bucolo C., Romano G.L., Rossi S., Eandi C.M., Pricoco E., and D'Agata V., *Drug-Repurposing Strategy for Dimethyl Fumarate.* Pharmaceuticals (Basel), 2023. 16(7). 10.3390/ph16070974
10. Consoli V., Burò I., Gulisano M., Castellano A., D'Amico A.G., D'Agata V., Vanella L., and Sorrenti V., *Evaluation of the Antioxidant and Antiangiogenic Activity of a Pomegranate Extract in BPH-1 Prostate Epithelial Cells.* Int J Mol Sci, 2023. 24(13). 10.3390/ijms241310719
11. D'Amico A.G., Maugeri G., D'Agata V., and Stålhammar G., *Editorial: Uveal melanoma: from lab bench to clinic - new therapeutic advances.* Front Med (Lausanne), 2023. 10: p. 1233214. 10.3389/fmed.2023.1233214
12. Maugeri G., D'Amico A.G., Magrì B., Giunta S., Musumeci G., Saccone S., Federico C., Scollo D., Longo A., Avitabile T., and D'Agata V., *Regulation of UV-B-Induced Inflammatory Mediators by Activity-Dependent Neuroprotective Protein (ADNP)-Derived Peptide (NAP) in Corneal Epithelium.* Int J Mol Sci, 2023. 24(8). 10.3390/ijms24086895
13. D'Amico A.G., Maugeri G., Magrì B., Giunta S., Saccone S., Federico C., Pricoco E., Broggi G., Caltabiano R., Musumeci G., Reglodi D., and D'Agata V., *Modulatory activity of ADNP on the hypoxia-induced angiogenic process in glioblastoma.* Int J Oncol, 2023. 62(1). 10.3892/ijo.2022.5462
14. Maugeri G., D'Amico A.G., Magrì B., Musumeci G., and D'Agata V., *Activity-Dependent Neuroprotective Protein (ADNP): An Overview of Its Role in the Eye.* Int J Mol Sci, 2022. 23(21). 10.3390/ijms232113654
15. D'Agata V., D'Amico A.G., Maugeri G., Bucolo C., Rossi S., and Giunta S., *Carnosol attenuates high glucose damage in human retinal endothelial cells through regulation of ERK/Nrf2/HO-1 pathway.* J Asian Nat Prod Res, 2022: p. 1-13. 10.1080/10286020.2022.2137022
16. Barone R, **D'Amico AG (co-first)**, Di Lorenzo N, Di Grado G, Matranga E, Spinoso G, Bavuso L, Marino Gammazza A, Rappa F, Bucchieri F, Cappello F, Piotrowska W, Spodnik JH, Spodnik E and Wójcik S. Anastomosis between Median and Musculocutaneous Nerve: Presentation of a Very Rare Anatomical Variation in Comparison to Classical Divisions. Anatomia 2022, 1(1), 68-74; https://doi.org/10.3390/anatomia1010007.
17. Consoli V., Sorrenti V., Pittalà V., Greish K., D'Amico A.G., Romeo G., Intagliata S., Salerno L., and Vanella L., *Heme Oxygenase Modulation Drives Ferroptosis in TNBC Cells.* Int J Mol Sci, 2022. 23(10). 10.3390/ijms23105709
18. Ravalli S., Roggio F., Lauretta G., Di Rosa M., D'Amico A.G., D'Agata V., Maugeri G., and Musumeci G., *Exploiting real-world data to monitor physical activity in patients with osteoarthritis: the opportunity of digital epidemiology.* Heliyon, 2022. 8(2): p. e08991. 10.1016/j.heliyon.2022.e08991
19. Maugeri G., D'Amico A.G., Giunta S., Giallongo C., Tibullo D., Bucolo C., Saccone S., Federico C., Scollo D., Longo A., Avitabile T., Musumeci G., and D'Agata V., *Activity-Dependent Neuroprotective Protein (ADNP)-Derived Peptide (NAP) Counteracts UV-B*

Radiation-Induced ROS Formation in Corneal Epithelium. Antioxidants (Basel), 2022. 11(1). 10.3390/antiox11010128
20. Maugeri G., D'Amico A.G., and D'Agata V., *Emerging Roles of the Neurotrophic Peptides IGF-1 and PACAP in Amyotrophic Lateral Sclerosis.* Curr Protein Pept Sci, 2022. 23(9): p. 571-573. 10.2174/1389203723666220805123251
21. D'Amico A.G., Maugeri G., Rasà D.M., Reitano R., Saccone S., Federico C., Magro G., and D'Agata V., *Modulatory role of PACAP and VIP on HIFs expression in lung adenocarcinoma.* Peptides, 2021. 146: p. 170672. 10.1016/j.peptides.2021.170672
22. Fallica A.N., Sorrenti V., D'Amico A.G., Salerno L., Romeo G., Intagliata S., Consoli V., Floresta G., Rescifina A., D'Agata V., Vanella L., and Pittalà V., *Discovery of Novel Acetamide-Based Heme Oxygenase-1 Inhibitors with Potent In Vitro Antiproliferative Activity.* J Med Chem, 2021. 64(18): p. 13373-13393. 10.1021/acs.jmedchem.1c00633
23. Maugeri G., D'Amico A.G., Saccone S., Federico C., Rasà D.M., Caltabiano R., Broggi G., Giunta S., Musumeci G., and D'Agata V., *Effect of PACAP on Hypoxia-Induced Angiogenesis and Epithelial-Mesenchymal Transition in Glioblastoma.* Biomedicines, 2021. 9(8). 10.3390/biomedicines9080965
24. D'Amico A.G., Maugeri G., Musumeci G., Reglodi D., and D'Agata V., *PACAP and NAP: Effect of Two Functionally Related Peptides in Diabetic Retinopathy.* J Mol Neurosci, 2021. 71(8): p. 1525-1535. 10.1007/s12031-020-01769-4
25. D'Amico A.G., Maugeri G., Vanella L., Pittalà V., Reglodi D., and D'Agata V., *Multimodal Role of PACAP in Glioblastoma.* Brain Sci, 2021. 11(8). 10.3390/brainsci11080994
26. Romeo G., Ciaffaglione V., Amata E., Dichiara M., Calabrese L., Vanella L., Sorrenti V., Grosso S., D'Amico A.G., D'Agata V., Intagliata S., and Salerno L., *Combination of Heme Oxygenase-1 Inhibition and Sigma Receptor Modulation for Anticancer Activity.* Molecules, 2021. 26(13). 10.3390/molecules26133860
27. Sorrenti V., D'Amico A.G., Barbagallo I., Consoli V., Grosso S., and Vanella L., *Tin Mesoporphyrin Selectively Reduces Non-Small-Cell Lung Cancer Cell Line A549 Proliferation by Interfering with Heme Oxygenase and Glutathione Systems.* Biomolecules, 2021. 11(6). 10.3390/biom11060917
28. Vizzi L., Padua E., D'Amico A.G., Tancredi V., D'Arcangelo G., Cariati I., Scimeca M., Maugeri G., D'Agata V., and Montorsi M., *Beneficial Effects of Physical Activity on Subjects with Neurodegenerative Disease.* J Funct Morphol Kinesiol, 2020. 5(4). 10.3390/jfmk5040094
29. Maugeri G., D'Amico A.G., Musumeci G., Reglodi D., and D'Agata V., *Effects of Pacap on Schwann Cells: Focus on Nerve Injury.* Int J Mol Sci, 2020. 21(21). 10.3390/ijms21218233
30. Maugeri G., D'Amico A.G., Morello G., Reglodi D., Cavallaro S., and D'Agata V., *Differential Vulnerability of Oculomotor Versus Hypoglossal Nucleus During ALS: Involvement of PACAP.* Front Neurosci, 2020. 14: p. 805. 10.3389/fnins.2020.00805
31. Cariati I., Scimeca M., Tancredi V., D'Amico A.G., Pallone G., Palmieri M., Frank C., and D'Arcangelo G., *Effects of Different Continuous Aerobic Training Protocols in a Heterozygous Mouse Model of Niemann-Pick Type C Disease.* J Funct Morphol Kinesiol, 2020. 5(3). 10.3390/jfmk5030053
32. Lauretta G., Ravalli S., Szychlinska M.A., Castorina A., Maugeri G., D'Amico A.G., D'Agata V., and Musumeci G., *Current knowledge of pituitary adenylate cyclase activating polypeptide (PACAP) in articular cartilage.* Histol Histopathol, 2020. 35(11): p. 1251-1262. 10.14670/hh-18-233
33. Toth D., Szabo E., Tamas A., Juhasz T., Horvath G., Fabian E., Opper B., Szabo D., Maugeri G., D'Amico A.G., D'Agata V., Vicena V., and Reglodi D., *Protective Effects of PACAP in Peripheral Organs.* Front Endocrinol (Lausanne), 2020. 11: p. 377. 10.3389/fendo.2020.00377

34. D'Amico A.G., Maugeri G., Saccone S., Federico C., Cavallaro S., Reglodi D., and D'Agata V., *PACAP Modulates the Autophagy Process in an In Vitro Model of Amyotrophic Lateral Sclerosis.* Int J Mol Sci, 2020. 21(8). 10.3390/ijms21082943
35. Conway de Macario E., Pitruzzella A., and D'Amico A.G., *Role of Molecular Chaperones in Carcinogenesis: Mechanism, Diagnosis, and Treatment.* J Oncol, 2020. 2020: p. 7437629. 10.1155/2020/7437629
36. Gasbarro L., Padua E., Tancredi V., Annino G., Montorsi M., Maugeri G., and D'Amico A.G., *Joint Mobility Protection during the Developmental Age among Free Climbing Practitioners: A Pilot Study.* J Funct Morphol Kinesiol, 2020. 5(1). 10.3390/jfmk5010014
37. Maugeri G., D'Amico A.G., Amenta A., Saccone S., Federico C., Reibaldi M., Russo A., Bonfiglio V., Avitabile T., Longo A., and D'Agata V., *Protective effect of PACAP against ultraviolet B radiation-induced human corneal endothelial cell injury.* Neuropeptides, 2020. 79: p. 101978. 10.1016/j.npep.2019.101978
38. Padua E., D'Amico A.G., Alashram A., Campoli F., Romagnoli C., Lombardo M., Quarantelli M., Di Pinti E., Tonanzi C., and Annino G., *Effectiveness of Warm-Up Routine on the Ankle Injuries Prevention in Young Female Basketball Players: A Randomized Controlled Trial.* Medicina (Kaunas), 2019. 55(10). 10.3390/medicina55100690
39. Bianco A., Ravalli S., Maugeri G., D'Agata V., Vecchio M., D'Amico A.G., Pavone V., Lucenti L., Amato A., Gentile A., Giustino V., Feka K., Thomas E., and Musumeci G., *The "Journal of Functional Morphology and Kinesiology" Journal Club Series: Highlights on Recent Papers in Overtraining and Exercise Addiction.* J Funct Morphol Kinesiol, 2019. 4(4). 10.3390/jfmk4040068
40. Maugeri G., D'Amico A.G., Bucolo C., and D'Agata V., *Protective effect of PACAP-38 on retinal pigmented epithelium in an in vitro and in vivo model of diabetic retinopathy through EGFR-dependent mechanism.* Peptides, 2019. 119: p. 170108. 10.1016/j.peptides.2019.170108
41. Maugeri G., D'Amico A.G., Federico C., Saccone S., Giunta S., Cavallaro S., and D'Agata V., *Involvement of A(3) Adenosine Receptor in Neuroblastoma Progression via Modulation of the Hypoxic/Angiogenic Pathway.* J Mol Neurosci, 2019. 69(1): p. 166-176. 10.1007/s12031-019-01346-4
42. Maugeri G., D'Amico A.G., Castrogiovanni P., Saccone S., Federico C., Reibaldi M., Russo A., Bonfiglio V., Avitabile T., Longo A., and D'Agata V., *PACAP through EGFR transactivation preserves human corneal endothelial integrity.* J Cell Biochem, 2019. 120(6): p. 10097-10105. 10.1002/jcb.28293
43. D'Amico A.G., Maugeri G., Rasà D., Federico C., Saccone S., Lazzara F., Fidilio A., Drago F., Bucolo C., and D'Agata V., *NAP modulates hyperglycemic-inflammatory event of diabetic retina by counteracting outer blood retinal barrier damage.* J Cell Physiol, 2019. 234(4): p. 5230-5240. 10.1002/jcp.27331
44. Maugeri G., D'Amico A.G., Rasà D.M., Federico C., Saccone S., Morello G., La Cognata V., Cavallaro S., and D'Agata V., *Molecular mechanisms involved in the protective effect of pituitary adenylate cyclase-activating polypeptide in an in vitro model of amyotrophic lateral sclerosis.* J Cell Physiol, 2019. 234(4): p. 5203-5214. 10.1002/jcp.27328
45. Federico C., Gil L., Bruno F., D'Amico A.G., D'Agata V., and Saccone S., *Phosphorylated nucleolar Tau protein is related to the neuronal in vitro differentiation.* Gene, 2018. 664: p. 1-11. 10.1016/j.gene.2018.04.051
46. Maugeri G., D'Amico A.G., Rasà D.M., Saccone S., Federico C., Cavallaro S., and D'Agata V., *PACAP and VIP regulate hypoxia-inducible factors in neuroblastoma cells exposed to hypoxia.* Neuropeptides, 2018. 69: p. 84-91. 10.1016/j.npep.2018.04.009
47. Bonaventura G., Iemmolo R., D'Amico A.G., La Cognata V., Costanzo E., Zappia M., D'Agata V., Conforti F.L., Aronica E., and Cavallaro S., *PACAP and PAC1R are differentially*

expressed in motor cortex of amyotrophic lateral sclerosis patients and support survival of iPSC-derived motor neurons. J Cell Physiol, 2018. 233(4): p. 3343-3351. 10.1002/jcp.26182
48. D'Amico A.G., Maugeri G., Rasà D.M., La Cognata V., Saccone S., Federico C., Cavallaro S., and D'Agata V., *NAP counteracts hyperglycemia/hypoxia induced retinal pigment epithelial barrier breakdown through modulation of HIFs and VEGF expression.* J Cell Physiol, 2018. 233(2): p. 1120-1128. 10.1002/jcp.25971
49. Maugeri G., D'Amico A.G., Rasà D.M., Saccone S., Federico C., Magro G., Cavallaro S., and D'Agata V., *Caffeine Effect on HIFs/VEGF Pathway in Human Glioblastoma Cells Exposed to Hypoxia.* Anticancer Agents Med Chem, 2018. 18(10): p. 1432-1439. 10.2174/1871520618666180209151750
50. Maugeri G., Longo A., D'Amico A.G., Rasà D.M., Reibaldi M., Russo A., Bonfiglio V., Avitabile T., and D'Agata V., *Trophic effect of PACAP on human corneal endothelium.* Peptides, 2018. 99: p. 20-26. 10.1016/j.peptides.2017.11.003
51. La Cognata V., Maugeri G., D'Amico A.G., Saccone S., Federico C., Cavallaro S., and D'Agata V., *Differential expression of PARK2 splice isoforms in an in vitro model of dopaminergic-like neurons exposed to toxic insults mimicking Parkinson's disease.* J Cell Biochem, 2018. 119(1): p. 1062-1073. 10.1002/jcb.26274
52. D'Amico A.G., Maugeri G., Rasà D.M., Bucolo C., Saccone S., Federico C., Cavallaro S., and D'Agata V., *Modulation of IL-1β and VEGF expression in rat diabetic retinopathy after PACAP administration.* Peptides, 2017. 97: p. 64-69. 10.1016/j.peptides.2017.09.014
53. Maugeri G., D'Amico A.G., Rasà D.M., La Cognata V., Saccone S., Federico C., Cavallaro S., and D'Agata V., *Nicotine promotes blood retinal barrier damage in a model of human diabetic macular edema.* Toxicol In Vitro, 2017. 44: p. 182-189. 10.1016/j.tiv.2017.07.003
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