

CURRICULUM VIATE
AGATA GRAZIA D'AMICO



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Researcher SSD/BIO 16.

Professor of Human Anatomy

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Born in Catania, Italy

August 12, 1986

CURRENT POSITION

Professor of Human Anatomy

University of Catania, Italy

Department of Drug and Health Sciences

EDUCATION

- Qualified to Associate Professor in Human Anatomy (National Scientific Abilitation) for the 05 (Biology) scientific area, SSD BIO/16, SC 05-H1, Human Anatomy. 2018
- MEDICAL UNIVERSITY OF GDANSK. Certificate of attendance for School of Anatomical Dissection (150 hours).
- PhD in International program in Neuropharmacology. Thesis entitled "Role of Dopamine D₃ receptor in the regulation of memory related genes". 02/2014 University of Catania.
- Pharmacy degree. Experimental Thesis in pharmaceutical technology entitled "Preparation, characterization and biological efficacy studies of PLGA nanospheres carrier Docetaxel". 10/2010 University of Catania.

WORK EXPERIENCE

- 09/2013 - 12/2013. Pre-doctoral experience in Department of Pharmacology and Pharmacotherapy, Faculty of Medicine, Semmelweis University, Budapest, to acquire of whole cell voltage clamp method and Clampfit 10.2 software for analyses 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
- 2015/now. 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.
- 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 integrative course of "Microscopic investigations".

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"

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

RESEARCH INTERESTS

Anatomy; Neuromorphology; Neurodegenerative disease; Diabetic retinopathy; Neuropeptides; Molecular biology; Cell Signaling; Neural stem cells; iPS cells; Identification of carcinogenic biomarkers; Study of the molecular mechanisms involved in GBM progression.

PROFESSIONAL ASSOCIATIONS

- Member of Italian Society of Anatomy and Histology (SIAI)
- Member of Italian Group Neuromorphology (GISN)
- Member of Italian Society of experimental biology (SIBS)

EDITORIAL ACIVITY

- **Editor** for Journal of Functional Morphology and Kinesiology (ISSN 2411-5142) – MDPI
- **Editor** for Brain Sciences (ISSN 2076-3425)– MDPI
- **Editor** for Biomedicines (ISSN 2227-9059) – MDPI
- **Guest Editor** for Journal of Oncology, Special Issue on Role of Molecular Chaperones in Carcinogenesis: Mechanism, Diagnosis, and Treatment
- **Guest Editor** for Journal of Functional Morphology and Kinesiology – MDPI, Special Issue "Physical Activity Improves Muscle-Cognitive Performance: Impact in Quality of Life"
- **Guest Editor** for Biomedicines – MDPI, Special Issue "Biomarkers and New Therapeutical Strategies for Cancer Diagnosis and Treatment". (2021)
- **Guest Editor** for Biomedicines – MDPI, Special Issue "Biomarkers and New Therapeutical Strategies for Cancer Diagnosis and Treatment Volume II". (2022)
- **Guest Editor** for Brain Sciences – MDPI, Special Issue " Identification of molecular targets and anti-cancer agents in GBM: new perspectives for cancer therapy". (2022)
- **Guest Associate Editor for Ophthalmology** for Frontiers in Medicine, Research Topics Uveal melanoma: from lab bench to clinic new therapeutic advances” (2022)

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.

LIST OF SCIENTIFIC CONTRIBUTIONS

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

H index (SCOPUS): 21

1. Scuderi S, **D'Amico AG**, Castorina A, Imbesi R, Carnazza ML, D'Agata V. Ameliorative effect of PACAP and VIP against increased permeability in a model of outer blood retinal barrier dysfunction. *Peptides*. 2013 Jan;39:119-24. doi: 10.1016/j.peptides.2012.11.015.
2. **D'Amico AG**, Scuderi S, Saccone S, Castorina A, Drago F, D'Agata V. Antiproliferative effects of PACAP and VIP in serum-starved glioma cells. *J Mol Neurosci*. 2013 Oct;51(2):503-13. doi: 10.1007/s12031-013-0076-7.
3. **D'Amico AG**, Castorina A, Leggio GM, Drago F, D'Agata V. Hippocampal neurofibromin and amyloid precursor protein expression in dopamine D3 receptor knockout mice following passive avoidance conditioning. *Neurochem Res*. 2013 Mar;38(3):564-72. doi: 10.1007/s11064-012-0949-0.
4. Castorina A, **D'Amico AG**, Scuderi S, Leggio GM, Drago F, D'Agata V. Dopamine D3 receptor deletion increases tissue plasminogen activator (tPA) activity in prefrontal cortex and hippocampus. *Neuroscience*. 2013 Oct 10;250:546-56. doi:10.1016/j.neuroscience.2013.07.053
5. **D'Amico AG**, Scuderi S, Leggio GM, Castorina A, Drago F, D'Agata V. Increased hippocampal CREB phosphorylation in dopamine D3 receptor knockout mice following passive avoidance conditioning. *Neurochem Res*. 2013 Dec;38(12):2516-23. doi: 10.1007/s11064-013-1164-3.
6. Castorina A, Scuderi S, **D'Amico AG**, Drago F, D'Agata V. PACAP and VIP increase the expression of myelin-related proteins in rat schwannoma cells: involvement of PAC1/VPAC2 receptor-mediated activation of PI3K/Akt signaling pathways. *Exp Cell Res*. 2014 Mar 10;322(1):108-21. doi:10.1016/j.yexcr.2013.11.003.
7. Scuderi S, **D'Amico AG**, Castorina A, Federico C, Marrazzo G, Drago F, Bucolo C, D'Agata V. Davunetide (NAP) protects the retina against early diabetic injury by reducing apoptotic death. *J Mol Neurosci*. 2014 Nov;54(3):395-404. doi: 10.1007/s12031-014-0244-4.
8. **D'Amico AG**, Scuderi S, Maugeri G, Cavallaro S, Drago F, D'Agata V. NAP reduces murine microvascular endothelial cells proliferation induced by hyperglycemia. *J Mol Neurosci*. 2014 Nov;54(3):405-13. doi: 10.1007/s12031-014-0335-2.
9. Scuderi S, **D'Amico AG**, Federico C, Saccone S, Magro G, Bucolo C, Drago F, D'Agata V. Different Retinal Expression Patterns of IL-1 α , IL-1 β , and Their Receptors in a Rat Model of Type 1 STZ-Induced Diabetes. *J Mol Neurosci*. 2015 Jun;56(2):431-9. doi: 10.1007/s12031-015-0505-x.
10. Maugeri G, **D'Amico AG**, Magro G, Salvatorelli L, Barbagallo GM, Saccone S, Drago F, Cavallaro S, D'Agata V. Expression profile of parkin isoforms in human gliomas. *Int J Oncol*. 2015 Oct;47(4):1282-92. doi: 10.3892/ijo.2015.3105
11. **D'Amico AG**, Maugeri G, Reitano R, Bucolo C, Saccone S, Drago F, D'Agata V. PACAP Modulates Expression of Hypoxia-Inducible Factors in Streptozotocin-Induced Diabetic Rat Retina. *J Mol Neurosci*. 2015 Dec;57(4):501-9. doi: 10.1007/s12031-015-0621-7.
12. **D'Amico AG**, Maugeri G, Magro G, Salvatorelli L, Drago F, D'Agata V. Expression pattern of parkin isoforms in lung adenocarcinomas. *Tumour Biol*. 2015 Jul;36(7):5133-41. doi: 10.1007/s13277-015-3166-z.
13. Maugeri G, La Cognata V, Scuderi S, **D'Amico AG**, Cavallaro S, D'Agata V. Expression Profile of Human PARK2 Splicing Isoforms in Peripheral Blood Cells and Isolated Lymphomonocytes. *ARC Journal of Neuroscience* Volume 1, Issue 3, 2016, PP 1-9 ISSN No. DOI: <http://dx.doi.org/10.20431/2456-057X.0103001>

14. Maugeri G, **D'Amico AG**, Reitano R, Saccone S, Federico C, Cavallaro S, D'Agata V. Parkin modulates expression of HIF-1 α and HIF-3 α during hypoxia in glioblastoma-derived cell lines in vitro. *Cell Tissue Res.* 2016 Jun;364(3):465-74. doi: 10.1007/s00441-015-2340-3.
15. Maugeri G, **D'Amico AG**, Rasà DM, Reitano R, Saccone S, Federico C, Parenti R, Magro G, D'Agata V. Expression profile of Wilms Tumor 1 (WT1) isoforms in undifferentiated and all-trans retinoic acid differentiated neuroblastoma cells. *Genes Cancer.* 2016 Jan;7(1-2):47-58. doi: 10.18632/genesandcancer.94
16. **D'Amico AG**, Maugeri G, Reitano R, Cavallaro S, D'Agata V. Proteomic Analysis of Parkin Isoforms Expression in Different Rat Brain Areas. *Protein J.* 2016 Oct;35(5):354-362. doi: 10.1007/s10930-016-9679-5
17. Amadio M, Pascale A, Cupri S, Pignatello R, Osera C, D'Agata V, **D'Amico AG**, Leggio GM, Ruozi B, Govoni S, Drago F, Bucolo C. Nanosystems based on siRNA silencing HuR expression counteract diabetic retinopathy in rat. *Pharmacol Res.* 2016 Sep;111:713-720. doi: 10.1016/j.phrs.2016.07.042.
18. Maugeri G, **D'Amico AG**, Reitano R, Magro G, Cavallaro S, Salomone S, D'Agata V. PACAP and VIP Inhibit the Invasiveness of Glioblastoma Cells Exposed to Hypoxia through the Regulation of HIFs and EGFR Expression. *Front Pharmacol.* 2016 May 31;7:139. doi: 10.3389/fphar.2016.00139
19. Maugeri G, **D'Amico AG**, Gagliano C, Saccone S, Federico C, Cavallaro S, D'Agata V. VIP Family Members Prevent Outer Blood Retinal Barrier Damage in a Model of Diabetic Macular Edema *J Cell Physiol.* 2017 May;232(5):1079-1085. doi: 10.1002/jcp.25510.
20. Maugeri G, **D'Amico AG**, Saccone S, Federico C, Cavallaro S, D'Agata V. PACAP and VIP Inhibit HIF-1 α -Mediated VEGF Expression in a Model of Diabetic Macular Edema. *J Cell Physiol.* 2017 May;232(5):1209-1215. doi: 10.1002/jcp.25616.
21. **D'Amico AG**, Maugeri G, Bucolo C, Saccone S, Federico C, Cavallaro S, D'Agata V. NAP Interferes with Hypoxia-Inducible Factors and VEGF Expression in Retina of Diabetic Rats. *J Mol Neurosci.* 2017 Feb;61(2):256-266. doi: 10.1007/s12031-016-0869-6.
22. Maugeri G, **D'Amico AG**, Rasà DM, La Cognata V, Saccone S, Federico C, Cavallaro S, D'Agata V. Caffeine Prevents Blood Retinal Barrier Damage in a Model, In Vitro, of Diabetic Macular Edema *J Cell Biochem.* 2017 Aug;118(8):2371-2379. doi: 10.1002/jcb.25899.
23. La Cognata V, Maugeri G, **D'Amico AG**, Saccone S, Federico C, Cavallaro S, 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 Jan;119(1):1062-1073. doi: 10.1002/jcb.26274.
24. **D'Amico AG**, Maugeri G, Rasà DM, La Cognata V, Saccone S, Federico C, Cavallaro S, D'Agata V. NAP counteracts hyperglycemia/hypoxia induced retinal pigment epithelial barrier breakdown through modulation of HIFs and VEGF expression. *J Cell Physiol.* 2018 Feb;233(2):1120-1128. doi: 10.1002/jcp.25971.
25. Rasà DM, **D'Amico AG**, Maugeri G, Cavallaro S, D'Agata V. WT1 Alternative Splicing: Role of Its Isoforms in Neuroblastoma. *J Mol Neurosci.* 2017 Jun;62(2):131-141. doi: 10.1007/s12031-017-0930-0.
26. Maugeri G, **D'Amico AG**, Rasà DM, La Cognata V, Saccone S, Federico C, Cavallaro S, D'Agata V. Nicotine promotes blood retinal barrier damage in a model of human diabetic macular edema. *Toxicol In Vitro.* 2017 Oct;44:182-189. doi: 10.1016/j.tiv.2017.07.003.
27. Bonaventura G, Iemmolo R, **D'Amico AG**, La Cognata V, Costanzo E, Zappia M, D'Agata V, Conforti FL, Aronica E, 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 Apr;233(4):3343-3351. doi: 10.1002/jcp.26182.

28. **D'Amico AG**, Maugeri G, Rasà DM, Bucolo C, Saccone S, Federico C, Cavallaro S, D'Agata V. Modulation of IL-1 β and VEGF expression in rat diabetic retinopathy after PACAP administration. *Peptides*. 2017 Nov;97:64-69. doi: 10.1016/j.peptides.2017.09.014.
29. Maugeri G, Longo A, **D'Amico AG**, Rasà DM, Reibaldi M, Russo A, Bonfiglio V, Avitabile T, D'Agata V. Trophic effect of PACAP on human corneal endothelium. *Peptides*. 2018 Jan;99:20-26. doi: 10.1016/j.peptides.2017.
30. Maugeri G, Longo A, **D'Amico AG**, Rasà DM, Reibaldi M, Russo A, Bonfiglio V, Avitabile T, D'Agata V. Caffeine inhibits angiogenesis in human glioblastoma cells via HIFs modulation. *Anticancer Agents Med Chem*. 2018;18(10):1432-1439. doi: 10.2174/1871520618666180209151750.
31. Federico C, Gil L, Bruno F, **D'Amico AG**, D'Agata V, Saccone S. Phosphorylated nucleolar Tau protein is related to the neuronal in vitro differentiation. *Gene*. 2018 Jul 20;664:1-11. doi: 10.1016/j.gene.2018.04.051.
32. Maugeri G, **D'Amico AG**, Rasà DM, Saccone S, Federico C, Cavallaro S, D'Agata V. PACAP and VIP regulate hypoxia-inducible factors in neuroblastoma cells exposed to hypoxia. *Neuropeptides*. 2018 Jun;69:84-91. doi: 10.1016/j.npep.2018.04.009.
33. Maugeri G, **D'Amico AG**, Rasà DM, Federico C, Saccone S, Morello G, La Cognata V, Cavallaro S, D'Agata V. Molecular mechanisms involved in the protective effect of pituitary adenylylate cyclase-activating polypeptide in an in vitro model of amyotrophic lateral sclerosis. *J Cell Physiol*. 2018 Sep 21. doi: 10.1002/jcp.27328.
34. Maugeri G, **D'Amico AG**, Castrogiovanni P, Saccone S, Federico C, Reibaldi M, Russo A, Bonfiglio V, Avitabile T, Longo A, D'Agata V. PACAP through EGFR transactivation preserves human corneal endothelial integrity. *J Cell Biochem*. 2018 Dec 11. doi: 10.1002/jcb.28293.
35. Maugeri G, **D'Amico AG**, Federico C, Saccone S, Giunta S, Cavallaro S, D'Agata V. Involvement of A3 Adenosine Receptor in Neuroblastoma Progression via Modulation of the Hypoxic/Angiogenic Pathway. *J Mol Neurosci*. 2019 Jun 5. doi: 10.1007/s12031-019-01346-4.
36. **D'Amico AG**, Maugeri G, Rasà D, Federico C, Saccone S, Lazzara F, Fidilio A, Drago F, Bucolo C, D'Agata V. NAP modulates hyperglycemic-inflammatory event of diabetic retina by counteracting outer blood retinal barrier damage. *J Cell Physiol*. 2019 Apr;234(4):5230-5240. doi: 10.1002/jcp.27331.
37. Maugeri G, **D'Amico AG**, Amenta A, Saccone S, Federico C, Reibaldi M, Russo A, Bonfiglio V, Avitabile T, Longo A, D'Agata V. Protective Effect of PACAP Against Ultraviolet B Radiation-Induced Human Corneal Endothelial Cell Injury. *Neuropeptides*. 2020 79:101978. doi: 10.1016/j.npep.2019.101978.
38. Bianco A, (...), **D'Amico AG**, Thomas E, Musumeci G. The "journal of Functional Morphology and Kinesiology" Journal club series: Highlights on recent papers in overtraining and exercise addiction. *Journal of Functional Morphology and Kinesiology*. 2019. 4,68.
39. L Gasbarro, E Padua, V Tancredi, G Annino, M Montorsi, G Maugeri and **Agata Grazia D'Amico**. Joint Mobility Protection during the Developmental Age among Free Climbing Practitioners: A Pilot Study. *Journal of Functional Morphology and Kinesiology* 2020. 5 (1), 14.
40. Conway de Macario E, Pitruzzella A, **D'Amico AG**. Role of Molecular Chaperones in Carcinogenesis: Mechanism, Diagnosis, and Treatment. *J Oncol*. 2020:7437629. doi: 10.1155/2020/7437629.
41. Padua E, **D'Amico AG**, Alashram A, Campoli F, Romagnoli C, Lombardo M, Quarantelli M, Di Pinti E, Tonanzi C, Annino G. Effectiveness of Warm-Up Routine on the Ankle Injuries Prevention in Young Female Basketball Players: A Randomized Controlled Trial. *Medicina (Kaunas)*. 2019 Oct 16;55(10):690. doi: 10.3390/medicina55100690.

42. **D'Amico AG**, 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), 2943; doi.org/10.3390/ijms21082943.
43. **D'Amico AG**, Maugeri G, Saccone S, Federico C, Cavallaro S, Reglodi D and D'Agata V. Differential Vulnerability of Oculomotor Versus Hypoglossal Nucleus During ALS: Involvement of PACAP. *Front Neurosci.* 2020; 14: 805. doi: 10.3389/fnins.2020.00805.
44. Toth D, Szabo E, Tamas A, Juhasz T, Horvath G, Fabian E, Opper B, Szabo D, Maugeri G, **D'Amico AG**, D'Agata V, Vicena V, Reglodi D. Protective Effects of PACAP in Peripheral Organs. *Front Endocrinol (Lausanne).* 2020 Jul 14;11:377. doi: 10.3389/fendo.2020.00377.
45. Maugeri G, **D'Amico AG**, Musumeci G, Reglodi D, D'Agata V. Effects of PACAP on Schwann Cells: Focus on Nerve Injury. *Int J Mol Sci.* 2020 Nov 3;21(21):8233. doi: 10.3390/ijms21218233.
46. Lauretta G, Ravalli S, Szychlinska MA, Castorina A, Maugeri G, **D'Amico AG**, D'Agata V, Musumeci G. Current knowledge of pituitary adenylate cyclase activating polypeptide (PACAP) in articular cartilage. *Histol Histopathol.* 2020 Jun 16:18233. doi: 10.14670/HH-18-233.
47. Cariatì I, Scimeca M, Tancredi V, **D'Amico AG**, Pallone G, Palmieri M, Frank C, 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), 53; <https://doi.org/10.3390/jfmk5030053>.
48. Vizzi L, Padua E, **D'Amico AG**, Tancredi V, D'Arcangelo G, Cariatì I, Scimeca M, Maugeri G, D'Agata V, Montorsi M. Beneficial Effects of Physical Activity on Subjects with Neurodegenerative Disease. *J Funct Morphol Kinesiol.* 2020 Dec 16;5(4):94. doi: 10.3390/jfmk5040094.
49. **D'Amico AG**, Maugeri G, Musumeci G, Reglodi D, D'Agata V. PACAP and NAP: Effect of Two Functionally Related Peptides in Diabetic Retinopathy. *J Mol Neurosci.* 2021 Jan 5. doi: 10.1007/s12031-020-01769-4.
50. **D'Amico AG**, Maugeri G, Vanella L, Pittalà V, Reglodi D, D'Agata V. Multimodal Role of PACAP in Glioblastoma. *Brain Sci.* 2021 Jul 28;11(8):994. doi: 10.3390/brainsci11080994.
51. Maugeri G, **D'Amico AG**, Saccone S, Federico C, Rasà DM, Caltabiano R, Broggi G, Giunta S, Musumeci G, D'Agata V. Effect of PACAP on Hypoxia-Induced Angiogenesis and Epithelial-Mesenchymal Transition in Glioblastoma. *Biomedicines.* 2021 Aug 5;9(8):965. doi: 10.3390/biomedicines9080965.
52. Fallica AN, Sorrenti V, **D'Amico AG**, Salerno L, Romeo G, Intagliata S, Consoli V, Floresta G, Rescifina A, D'Agata V, Vanella L, Pittalà V. Discovery of Novel Acetamide-Based Heme Oxygenase-1 Inhibitors with Potent In Vitro Antiproliferative Activity. *J Med Chem.* 2021 Sep 23;64(18):13373-13393. doi: 10.1021/acs.jmedchem.1c00633.
53. **D'Amico AG**, Maugeri G, Rasà DM, Reitano R, Saccone S, Federico C, Magro G, D'Agata V. Modulatory role of PACAP and VIP on HIFs expression in lung adenocarcinoma. *Peptides.* 2021 Dec;146:170672. doi: 10.1016/j.peptides.2021.170672.
54. Romeo G, Ciaffaglione V, Amata E, Dichiarà M, Calabrese L, Vanella L, Sorrenti V, Grosso S, **D'Amico AG**, D'Agata V, Intagliata S, Salerno L. Combination of Heme Oxygenase-1 Inhibition and Sigma Receptor Modulation for Anticancer Activity. *Molecules.* 2021 Jun 24;26(13):3860. doi: 10.3390/molecules26133860.
55. Sorrenti V, **D'Amico AG**, Barbagallo I, Consoli V, Grosso S, 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 Jun 21;11(6):917. doi: 10.3390/biom11060917.
56. Maugeri G, **D'Amico AG**, Giunta S, Giallongo C, Tibullo D, Bucolo C, Saccone S, Federico C, Scollo D, Longo A, Avitabile T, Musumeci G, D'Agata V. Activity-Dependent Neuroprotective Protein (ADNP)-Derived Peptide (NAP) Counteracts UV-B Radiation-

- Induced ROS Formation in Corneal Epithelium. *Antioxidants* (Basel). 2022 Jan 7;11(1):128. doi: 10.3390/antiox11010128.
57. Maugeri G, **D'Amico AG**, D'Agata V. A Broad Overview on Pituitary Adenylate Cyclase-Activating Polypeptide Role in the Eye: Focus on Its Repairing Effect in Cornea. *Applied Sciences* (Switzerland), 2022, 12(2), 760
58. Maugeri G, **D'Amico AG**, D'Agata V. Emerging Roles of the Neurotrophic Peptides IGF-1 and PACAP in Amyotrophic Lateral Sclerosis. *Curr Protein Pept Sci* 2022. doi: 10.2174/1389203723666220805123251.
59. **D'Amico AG**, Maugeri G, Magrì B, Giunta S, Saccone S, Federico C, Pricoco E, Broggi G, Caltabiano R, Musumeci G, Reglodi D and Velia D'Agata. Modulatory activity of ADNP on the hypoxia-induced angiogenic process in glioblastoma. *INTERNATIONAL JOURNAL OF ONCOLOGY* 00: IJO-283857, 0000 *IN PRESS*.

ABSTRACT IN CONGRESS

1. D'Agata V, **D'Amico AG**, Leggio G, Castorina A, Giunta S And Drago F. Dopamine D3 receptor, neurofibromin and amyloid precursor protein expression during passive avoidance conditioning. *Neuroscience*, Washington, DC: Society for Neuroscience, 2011.
2. D'Agata V, **D'Amico AG**, Leggio G, Castorina A, Giunta S, Carnazza M, Drago F. Dopamine D3 receptor, neurofibromin and amyloid precursor protein expression during learning. In *Italian journal of anatomy and embryology* Vol. 116, n. 1. 65° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Padova September 2011.
3. Scuderi S, **D'Amico AG**, Castorina A, Imbesi R, Castrogiovanni P, D'Agata V. Ameliorative effect of PACAP and VIP against increased permeability in a model of outer blood retinal barrier. In *Italian journal of anatomy and embryology* Vol. 117, n. 2 (Supplement): 173. 66° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Pistoia, 20 - 23 September 2012.
4. Castorina A, Leggio G, **D'Amico AG**, Scuderi S, Drago F, Carnazza M, D'Agata V. Dopamine D3 receptor modulates tissue type plasminogen activator (tPA) activity in mouse brain. In *Italian journal of anatomy and embryology (IJAE)* Vol. 117, n. 2. 66° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Pistoia, 20 - 23 September 2012.
5. **D'Amico AG**; Scuderi S; Saccone S; Castorina A; Drago F; D'Agata V. Effects of PACAP and VIP on malignancy of glioma cells. In 35th national congress of the Italian Society of Histochemistry, Cagliari 12-14 June, 2013.
6. **D'Amico AG**, Castorina A, Leggio G, Imbesi R, Drago F, D'Agata V. Dopamine D3 receptor knockout mice exhibit increased hippocampal cAMP response element binding protein (CREB) following acquisition of passive avoidance memory. In *Italian journal of anatomy and embryology (IJAE)* Vol. 118, n. 2. 67° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Brescia, 20 -22 September 2013.
7. Scuderi S; **D'Amico AG**; Saccone S; Castorina A; Castrogiovanni P; Carnazza ML; D'Agata V. Nap Modulates the Expression and Distribution of Cleaved Caspase-3 in Retina of Streptozotocin-Injected Rats. *EJH - Proceedings of the 35° National Congress of the Italian Society of Histochemistry*, Pavia 12-14 Giugno 2013.
8. Scuderi S, **D'Amico AG**, Saccone S, Bucolo C, Drago F, D'Agata V. Interleukin-1 family members in the retina of streptozotocin-injected rats. In *Italian journal of anatomy and*

- embryology (IJAE) VOL. 118. 67° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Brescia, 20 -22 September 2013.
9. Maugeri G, **D'Amico AG**, Magro G, Salvatorelli L, Cavallaro S, Drago F, D'Agata V. Parkin isoforms expression in gliomas. In Italian journal of anatomy and embryology (IJAE) Vol.119, n. 1. 68° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Ancona, 18 - 20 September 2014.
 10. **D'Amico AG**, Maugeri G, Magro G, Salvatorelli L, Drago F, D'Agata V. Parkin isoforms expression in lung adenocarcinoma. In Italian journal of anatomy and embryology (IJAE) Vol.119, n. 1. 68° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Ancona, 18 - 20 September 2014.
 11. Maugeri G, **D'Amico AG**, Magro G, Salvatorelli L, Cavallaro S, Drago F, D'Agata V. Expression profile of Parkin isoforms in glioma. PINK1-Parkin Signalling in Parkinson's disease and beyond. London December 2014.
 12. M. Amadio; C. Bucolo; S. Govoni; F. Drago; V. D'Agata; **A.G. D'Amico**; S. Cupri; Pignatello R; A. Pascale. Interventions against VEGF overexpression, available strategies and future developments ACTA OPHTHALMOLOGICA. - ISSN 1755-375X. - 93:S255 (2015). Intervento presentato al convegno EVER 2015 tenutosi a Nice nel October 7-10, 2015.
 13. Cupri S; Bucolo C; Romano GL; Amadio M; Pascale A; D'Agata V; **D'Amico AG**; Puglisi G; Pignatello R. New nanotechnology formulations for HuR siRNA delivery to the retina. XXIII National Meeting of Medicinal Chemistry and 9th Young Medicinal Chemists Symposium, 6-9 Settembre 2015, Salerno.
 14. Pignatello R; S. Cupri; Bucolo; G.L. Romano; M. Amadio; A. Pascale; V. D'Agata; **A.G. D'Amico**; G. Puglisi. Nanotechnology approaches for intravitreal release of HuR siRNA. pp.169-170. In Thematic Workshop of Controlled Release Society Italy Chapter "Micro and nanotechnologies to overcome biologic barriers" - ISBN:978-88-941404-0-8 12-14 Ottobre 2015 Napoli.
 15. **D'Amico AG**, Maugeri G, Bucolo C, Reitano R, Drago F, D'agata V. PACAP modulates expression of Hypoxia Inducible Factors in the early phase of diabetic retinopathy. 36° NATIONAL CONGRESS Italian Society of Histochemistry University of PISA, 7/10 June 2015.
 16. Maugeri G, **D'Amico AG**, Reitano R and D'Agata V. Parkin interferes with hypoxia-inducible factors expression in glioblastoma cells. In Italian journal of anatomy and embryology (IJAE) Vol.120, n. 1. 69° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Ferrara 17 - 19 September 2015.
 17. Reitano R and **D'Amico AG**. Hypoxia Inducible Factors expression in lung adenocarcinoma cells. In Italian journal of anatomy and embryology (IJAE) Vol.120, n. 1. 69° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Ferrara 17 - 19 September 2015.
 18. **D'Amico AG**, Reitano R, Federico C and Saccone S. Ameliorative effect of VIP family members on blood retinal barrier breakdown in diabetic macular edema. In Italian journal of anatomy and embryology (IJAE) Vol.121, n. 1. 70° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology University of Roma 15-17 September 2016.
 19. D'Agata V, Maugeri G, Reitano R, Saccone S, Rasà D and **D'Amico AG**. Correlation between expression profile of Wilms tumor 1 gene isoforms and neuroblastoma grade malignancy. In Italian journal of anatomy and embryology (IJAE) Vol.121, n. 1. 70° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology. University of Roma 15-17 September 2016.
 20. Maugeri G, **D'Amico AG**, Reitano R, Cavallaro S, D'Agata V. PACAP and VIP counteract glioblastoma cells invasiveness. In Italian journal of anatomy and embryology (IJAE)

- Vol.121, n. 1. 70° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology. University of Roma 15-17 September 2016.
21. **D'Amico AG**, Maugeri G, Rasà D and D'Agata V. (2017) Effect of NAP in diabetic retinopathy. In Italian journal of anatomy and embryology (IJAE) Vol.122, n. 1. 71° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Messina, Taormina 19-21 September 2017.
 22. Maugeri G, **D'Amico AG**, Rasà D and D'Agata V. (2017) Role of Nicotine during diabetic macular edema development. In Italian journal of anatomy and embryology (IJAE) Vol.122, n. 1. 71° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Messina, Taormina, 20-22 September 2017.
 23. **Agata Grazia D'Amico**, Grazia Maugeri, Daniela Rasà, Concetta Federico, Salvatore Saccone, Claudio Bucolo, Velia D'Agata. NAP modulates inflammatory cytokines release and counteracts outer blood retinal barrier breakdown in diabetic rat retina. In Italian journal of anatomy and embryology (IJAE) Vol.123, n. 1. 72° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Parma, 20-22 September 2018.
 24. Maugeri G, D'Amico AG, Rasà DM, Federico C, Saccone S, Cavallaro S and D'Agata V. Molecular mechanism of PACAP-induced EGFR transactivation in an in vitro model of ALS. In Italian journal of anatomy and embryology (IJAE) Vol.123, n. 1. 72° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Parma, 20-22 September 2018.
 25. Bruno F, Federico C, Gil L, Sturiale V, **D'Amico AG**, D'Agata V, Saccone S. Nucleolar tau protein colocalizes with UBTF and is related to neuronal in vitro differentiation XV FISV CONGRESS Sapienza University of Rome, Italy September 18-21, 2018.
 26. Grazia Maugeri, **Agata Grazia D'Amico**, Daniela Maria Rasà, Valentina La Cognata, Giovanna Morello, Salvatore Saccone, Concetta Federico, Sebastiano Cavallaro, Velia D'Agata. Role of PACAP/EGFR/MMP-2 axis in an in vitro model of amyotrophic lateral sclerosis. Society for Neuroscience 2018 Annual Meeting 3–7 November 2018, San Diego, United States.
 27. Maugeri G; D'Agata V; Saccone S; Federico C; **D'Amico AG**; Reibaldi M; Russo A; Bonfiglio V; Avitabile T; Longo A. TROPHIC EFFECT VALIDATION OF PACAP ON HUMAN CORNEAL ENDOTHELIUM BY USING CONFOCAL MICROSCOPY. ARVO Annual Meeting 2018, Honolulu, Hawaii, USA. 29/4-3/5 2018.
 28. **D'Amico AG**, Maugeri G, Saccone S, Federico C and D'Agata V. INVOLVEMENT OF PACAP-ADNP AXIS IN DIABETIC RETINOPATHY. XXVIII Convegno Nazionale Gruppo Italiano Per Lo Studio Della Neuromorfologia (GISN). Firenze 30 November 2018.
 29. **D'Amico AG**, Maugeri G and D'Agata V. PACAP-ADNP axis: neuroprotective effect in diabetic retinopathy. Update In Neuroscience. University of Palermo, Italy.
 30. Maugeri G, **D'Amico AG** and D'Agata V. Involvement of parkin protein in glioblastoma multiforme. Update In Neuroscience. University of Palermo, Italy.
 31. Rasà DM, Maugeri G, **D'Amico AG** and D'Agata V. Wt1 isoforms involvement in neuroblastoma malignancy. Update In Neuroscience. University of Palermo, Italy.
 32. **Agata Grazia D'Amico**, Grazia Maugeri, Velia D'Agata. PACAP counteracts motorneuron degeneration via downregulation of autophagy process in an in vitro model of amyotrophic lateral sclerosis. In Italian journal of anatomy and embryology (IJAE) Vol.123, n. 1. 73° NATIONAL CONGRESS SIAI Italian Society of Human Anatomy and Histology, University of Napoli, 22-24 September 2019.