

ALESSANDRA PELAGALLI

CURRICULUM VITAE

Personal data

Name: Alessandra Pelagalli

Date of birth: 10/03/1970

Place of birth: Napoli

e-mail: alpelaga@unina.it

Istitution

1999-2012 Università degli Studi di Napoli “Federico II”

Facoltà di Medicina Veterinaria

Dipartimento di Strutture, Funzioni e Tecnologie Biologiche

Via F. Delpino 1 80137 Napoli –ITALY

2012 up to now Università degli Studi di Napoli “Federico II”

Dipartimento di Scienze Biomediche avanzate

Via Pansini 5

80131 Napoli

Actual Position

Confirmed researcher in Veterinary Physiology (SSD VET/02)

Education

1993 Pharmacy Degree – Università degli Studi di Napoli Federico II

1993-1997 Veterinary Pharmacology and Toxicology PhD

1997-1999 Post-doctoral research bursary

Academic

Appointment

1999 up to now Researcher in Veterinary Physiology at School of Veterinary Medicine, University of Naples, ITALY

2013 up to now Researcher in Veterinary Physiology at the Department of Advanced Biomedical Sciences, University of Naples, ITALY

2013 up to now Associate Researcher at Institute of Biostructures and Bioimages of National Research Council (CNR), Naples, ITALY

Teaching Experience

1999-2000 Professor of Veterinary Physiology I (School of Biotechnology)

2000 up to now Professor of Physiologic Methodologies and Biotechnology applied to Reproduction (School of Biotechnology)

2001-2002 Professor of Endocrinology of Domestic Animals

2003-up to 2010 Professor of Physiology of Fish species

2008 up to now Professor of Physiology and animal welfare (Postgraduate course in food inspection)

2010 up to now Professor of Physiology In Veterinary Biotechnology Course

Fields of Research

Main current field of research:

1999-2012 Characterization of platelet function in animals of veterinary interest (aggregometry, adhesion assay, flow cytometry); secondary fields of interest: i) role of enzymes activity in colostrum and in milk of buffalo, goat and ewe, ii) activity of enzymes in seminal plasma of stallion and their correlations with fertility, evaluation of stress marker in buffalo (cortisol in hair, feces, saliva) in relation to animal welfare

2012 up to now

- Characterization of ovine and human mesenchymal stem cell; Analysis of expression of CXCR4 and aquaporin 1 (AQP1) in ovine mesenchymal stem cell; Role of AQP1 in migration and homing of mesenchymal stem cell; Study on leptin effect on mesenchymal stem cells.
- Characterization of neuropeptides in gastrointestinal tract of different animal species.
- Studies on AQPs distribution and function in the gut of human and animal species; Study on AQPs function in animal models of hepatic steatosis; Biology of mesenchymal stem cells (MSCs).

Research Assignments

- 2000-2001** Scientific responsible for a project for young researcher entitled “Aggregation and adhesion studies in different animal species and evaluation of the effects of natural peptides containing the RGD sequence” financed by University of Napoli with 6.200 euros
- 2001-2003** Scientific responsible for a project for young researcher entitled “Characterization of physiologic, biochemical and pharmacological aspects of platelet function in different animal species” financed by National Research Council (CNR) with 7.800 euros
- 2012-2015** Component of PON Project - Smart Health Cluster OSDH Smart FSE –Staywell
- 2018 up to now** - Component of PRIN (Research Projects of National Relevance) Project

Prizes

- June 1997** - Winner of a prize for the scientific contents of the poster entitled "Structural changes and functional fibrinogen induced by free radical generating systems," presented at the Scientific Days of the Faculty of Medicine, Pharmacy and Veterinary Medicine
- July 1997** - Winner of a travel bursary of £ 200 for participation in the "7th International Congress of the European Association for Veterinary Pharmacology and Toxicology, Madrid" assigned by the Veterinary Pharmacology Trust

Academic and Society Membership

- 1995 up to now** - Member of Italian Society of Veterinary Sciences (SISVET)
- 2001 up to now** - Member of the Italian Society of Veterinary physiologists (SOFIVET)
- 2013 up to now** Membership in the Italian Association of Cell Culture

Editor and reviewer activity

- 2016- up to now** Editorial Board component for:
 - African Journal of Biotechnology,
 - Annals of Stem Cell Research & Therapy;
 - Buffalo Science,
 - Frontiers in Veterinary Science;
 - International Journal of Veterinary and Dairy Sciences,
 - Open Access Journal of Veterinary Science & Research (OAJVSR),
 - Symbiosis Journal of Veterinary Sciences,
 - Journal of Animal Research and Nutrition.
 - Journal of Veterinary Medicine and Allied Science
 - Asian Journal of Research in Animal and Veterinary Sciences

- Philippine Journal of Veterinary Medicine
 - Integrative Journal of Veterinary Biosciences

2018- Component of Advisory board of Journal of Veterinary Research and Current Regenerative Medicine

2012- up to now Reviewer of Journal of Dairy Science

2016- up to now Reviewer of Journal of Veterinary Sciences

2016- up to now Reviewer of Global Journals Inc. (US)

2016- up to now Reviewer of International Journal of Molecular Medicine

2016- up to now Reviewer of BMC Veterinary Sciences

2016- up to now Reviewer of Molecules

2017- up to now Reviewer of Acta Veterinaria Hungarica

2017- up to now Reviewer of Frontiers in Veterinary Sciences

2017- up to now Reviewer of Frontiers in Nutrition

2018 Reviewer of Veterinarni Medicina

2018 Reviewer of Czech Journal of Animal Science

2018 Reviewer of Veterinary and Animal Science

2018 Reviewer of Animal Science

2018 Reviewer of Journal of the Hellenic Veterinary Medical Society

2018 Reviewer of Journal of Medical Biomedical and Applied Sciences

2018 Reviewer of Journal of Dairy Science, Veterinary and Animal Husbandry

2017- Guest Editor for a Special Issue entitled "Emerging Roles in Animal Socio-Cognition in Relation to Ethics, Behavior and Welfare" in Behavioural Sciences, MDPI Journals.

2019 - Guest Editor for a Special Issue entitled "Novel MSC Perspectives: From Cell Regulation to Tissue Regeneration"

**Papers in
 Conferences (last 5
 years)**

1. EXPRESSION OF AQUAPORIN-1 AND CXCR4 IN OVINE MESENCHYMAL STEM CELL. **Pelagalli A.**, Zannetti A., Nardelli A., Lucarelli E., Scala S., Alfano B., Brunetti A., Salvatore M. *Journal of Regenerative Medicine*, 2014, 42, <http://dx.doi.org/10.4172/2325-9620.S1-001>
2. BONE MARROW-DERIVED MESENCHYMAL STEM CELLS PROMOTE GROWTH AND MIGRATION OF OSTEOSARCOMA AND HEPATOCARCINOMA CELLS THROUGH CXCR4 AND AQP1. Zannetti A, **Pelagalli A.**, Nardelli A, Lucarelli E, Scala S, Alfano B, Brunetti A, Salvatore M *Journal of Regenerative Medicine*, 2014, 32, <http://dx.doi.org/10.4172/2325-9620.S1-001>
3. F18 FDG-PET/CT PARAMETERS AS PREDICTORS OF OUTCOME IN NON SURGICAL NSCLC PATIENTS. Capicchiaro D., Nappi A., Gallicchio R., Giacomobono S., Nardelli A., **Pelagalli A.**, Della Morte A., Marasco D., D'Errico N., Volpicelli F., Storto G. Proceedings of National Congress AINM (Italian Association of Nuclear Medicine and Molecular Imaging, Rimini ITALY) 2015, P0024.
4. ASSESSMENT OF RESIDUAL RADIOACTIVITY BY A COMPREHENSIVE WIRELESS, WEARABLE DEVICE IN PATIENTS UNDERGOING RADIONUCLIDE THERAPY HOSPITALIZED IN RESTRICTED AREAS: COMPARISON WITH THE RESULTS OF A HOME DEVICE. Gallicchio R., Giacomobono S., Capicchiaro D., Venetucci A., Nappi A., Scapicchio D., Nardelli A., **Pelagalli A.**, Martino R., Plaitano M., Tempone A., Leggiado F., Rifino P., Larotonda D., Pedicini P., Storto G. Proceedings of National Congress AINM (Italian Association of Nuclear Medicine and Molecular Imaging, Rimini ITALY)

2015, P0025.

5. BONE MARROW-DERIVED MESENCHYMAL STEM CELLS DRIVE EPITHELIAL-MESENCHYMAL TRANSITION IN OSTEOSARCOMA CELLS THROUGH CXCL12/CXCR4. Fontanella R., **Pelagalli A.**, Scala S., Auletta L., Palumbo R., Zannetti A. Proceedings of Special Conference entitled "from Cancer Biology to the Clinic" of the Italian Cancerology Society, Florence 20-22 JUNE 2015 poster n.347.
6. LEPTIN REGULATES THE EXPRESSION OF AQP1 IN H₂O₂-INDUCED HUMAN MSCS: PRELIMINARY DATA. **Pelagalli A.**, Mattace Raso G., Zannetti A., Brunetti A., Meli R. 2015 GISM Annual Meeting, Brescia 8-9 ottobre 2015
7. Arcamone N., D'Angelo L., de Girolamo P., Lucini C., **Pelagalli A.**, Castaldo L. Orexin and orexin receptor like peptides in the gastroenteric tract of Gallus domesticus: an immunohistochemical survey on presence and distribution. **Research in Veterinary Sciences**, 2014, **96(2):234-40. (IF 1.511)**
8. De Luca A., Vassalotti G., **Pelagalli A.**, Pero M. E., Squillacioti C., Mirabella N., Lombardi P., Avallone L. Expression and localization of aquaporin 1 along the intestine of colostrum suckling buffalo calves. **Anat Histol Embryol**. 2015, **44(5):391-400. (IF 0.742)**
9. Squillacioti C., De Luca A., Pero M. E., Lombardi P., Vassalotti G., Avallone L., Mirabella N., **Pelagalli A.** Effect of colostrum and milk on small intestine expression of AQP4 and AQP5 in newborn buffalo calves. **Res Vet Sci**. 2015, **103, 149-155. (IF 1.409)**
10. **Pelagalli A.**, Squillacioti C., De Luca A., Pero M. E., Lombardi P., Vassalotti G., Avallone L., Mirabella N. Expression and localization of aquaporin 4 and aquaporin 5 along the large intestine of colostrum-suckling buffalo calves. **Anat Histol Embryol**. 2015 Oct 2. doi: **10.1111/ah.12210. (IF 0.742)**
11. **Pelagalli A.** La salvaguardia delle specie ittiche di allevamento attraverso la conoscenza del loro benessere. **Rivista Scienze e Ricerche**, ottobre 2015
12. Nappi A., Gallicchio R., Simeon V., Nardelli A., Pelagalli A., Zupa A., Vita G., Venetucci A., Di Cosola M., Barbato F., Storto G. [F-18] FDG-PET/CT parameters as predictors of outcome in inoperable NSCLC patients. **Radiol Oncol**. 2015, **27;49(4), 320-326. (IF 1.912)**
13. Fontanella R, **Pelagalli A**, Nardelli A, D'Alterio C, Ieranò C, Cerchia L, Lucarelli E, Scala S, Zannetti A. A novel antagonist of CXCR4 prevents bone marrow-derived mesenchymal stem cell-mediated osteosarcoma and hepatocellular carcinoma cell migration and invasion. **Cancer Lett**. 2016 Jan 1;**370(1), 100-107. (IF 5.621)**
14. D'Angelo L., Castaldo L., de Girolamo P., Lucini C., Paolucci M., **Pelagalli A.**, Varricchio E., Arcamone N. Orexins and the receptor OX2R in the gastroenteric apparatus of two teleostean species: *Dicentrarchus labrax* and *Carassius auratus*. **Anat Rec**. 2016 Aug;**299(8):1121-1129. (IF. 1.343)**
15. **Pelagalli A.**, Squillacioti C., Mirabella N., Meli R. Aquaporins in Health and Disease: An Overview Focusing on the Gut of Different Species (Review) **Int J Mol Sci**. 2016 Jul **27;17(8). Review. (IF 3.8)**
16. **Pelagalli A**, Nardelli A, Fontanella R, Zannetti A. Inhibition of AQP1

Papers in Journals

(last 5 years)

Hampers Osteosarcoma and Hepatocellular Carcinoma Progression Mediated by Bone Marrow-Derived Mesenchymal Stem Cells. **Int J Mol Sci.** 2016 Jul 11;17(7). pii: E1102. (IF 3.8)

17. Gallicchio R, Nardelli A, Venetucci A, Capacchione D, **Pelagalli A**, Sirignano C, Mainenti P, Pedicini P, Guglielmi G, Storto G. F-18 FDG PET/CT metabolic tumor volume predicts overall survival in patients with disseminated epithelial ovarian cancer. **Eur J Radiol.** 2017 Aug; **93**:107-113. (IF 2,46)
18. Hill BS, **Pelagalli A**, Passaro N, Zannetti A. Tumor-educated mesenchymal stem cells promote pro-metastatic phenotype. **Oncotarget.** 2017 Aug 14;8(42):73296-73311. (IF 5.16)
19. Salzano, A., Spagnuolo, M. S., Lombardi, P., Vecchio, D., Limone, A., Bolletti Censi, S., Balestrieri, A., **Pelagalli, A.**, Neglia G. Influences of different space allowance on reproductive performances in buffalo. **Anim. Reprod.**, 2017, **14**, 429-436. (IF 0.906)
20. Esposito, L., Auletta, L., Ciani, F., **Pelagalli, A.**, Pasolini, M. P., Lamagna, B., Piscopo, N., Amici A. Hair cortisol levels in captive brown hare (*lepus europaeus*):potential effect of sex, age, and breeding technology. **Eur J Wildl Res** (2017) **63**: 62. (IF 1.264)
21. Meli R., Pirozzi C., Pelagalli A. New perspectives on the potential role of aquaporins (aqps) in the physiology of inflammation. **Front. Physiol.** **9**, 101, (2018) DOI: doi: 10.3389/fphys.2018.00101. (IF 4.134)
22. **Pelagalli, A.**, Nardelli, A., Lucarelli, E., Zannetti, A., Brunetti, A. Autocrine signals increase ovine mesenchymal stem cells migration through aquaporin-1 and cxcr4 overexpression. **J. Cell. Physiol.** 233(8):6241-6249 (2018) (IF 4.080)
23. Liguori G., Squillacioti C., Assisi L., **Pelagalli A.**, Costagliola A., Mirabella N. Potential role of orexin a binding the receptor 1 for orexins in normal and cryptorchid dogs. **BMC Veterinary Research**, 2018, 14(1):55. DOI: 10.1186/s12917-018-1375-6. (IF 1.750)
24. Liguori G, **Pelagalli A**, Assisi L, Squillacioti C, Costagliola A, Mirabella N. Effects of orexins on 17 β -estradiol synthesis and P450 aromatase modulation in the testis of alpaca (*Vicugna pacos*). **Anim Reprod Sci.** 2018 192:313-320. DOI: 10.1016/j.anireprosci.2018.03.032. (IF 1.605)
25. **Pelagalli A**, Squillacioti C, Ali' S, Liguori G, Mirabella N. Cellular distribution of aquaporins in testes of normal and cryptorchid dogs: A preliminary study on dynamic roles. **Anim Reprod Sci.** 2019, 204:22-30. DOI: 10.1016/j.anireprosci.2019.03.001. (IF 1.605)
26. Lama A, Annunziata C, Coretti L, Pirozzi C, Di Guida F, Nitrato Izzo A, Cristiano C, Mollica MP, Chiariotti L, **Pelagalli A**, Lembo F, Meli R, Mattace Raso G. N-(1-carbamoyl-2-phenylethyl) butyramide reduces antibiotic-induced intestinal injury, innate immune activation and modulates microbiota composition. **Sci Rep.** 2019, **9**(1):4832. DOI: 10.1038/s41598-019-41295-x (IF 4.122)
27. Squillacioti, C, **Pelagalli, A**, De Luca, A, Liguori, G, Ali, S, Mirabella, N. Urocortinergetic system in the epididymis of the normal and cryptorchid dogs. **Reproduction in Domestic Animals**, accepted (IF 1.422)