Curriculum Vitae

Personal information	
First name / Surname	**Marco Vincenzo Patruno**
E-mail	marco.pat@unipd.it
Nationality	Italian
Date of birth	12 / 11 / 1969
Gender	Male
Occupational field	**Associate Professor in Veterinary Anatomy and Embryology, University of Padova**
Work experience and education	
Date	2001 - Present
Occupation or position held	Research assistant and from 2011 Associate Professor, Dept. Comparative Biomedicine & Food Science (BCA)
Main activities and responsibilities	Teaching: Professor of Veterinary Anatomy, for the Veterinary and Biotechnology courses; Professor of Comparative Anatomy for the Animal Care course. - Responsible/Coordinator of the Internationalization Committee of BCA Department. - Teaching commission of BCA - EAEVE commission of BCA - International commission of Padua University (delegate of the BCA Director) - Responsible Microscopic Laboratories for BCA/MAPS Depts. - iMOVES coordinator for BCA/MAPS Depts. (international mobility of veterinary students, Summer School) - Member of the Editorial Board of BMC Veterinary Science - Associate Editor for the journal Frontiers in Veterinary Science - EMA (European Medicines Agency) expert on Stem Cells in the veterinary field. - Coordinator and participating in projects involving the animal experimentation in sheep and rodents (see below)
Research topics:	- Since 2004 Myostatin expression and muscle development in the pig (*Sus scrofa*) - Since 2006 Expression of myosin isoforms and myogenic factors during the

involution of the proximal sesamoidean ligament of sheep (*Ovis aries*)
- Since 2010 Characterization and clinical applications of adult stem cells isolated from sheep, horses and dogs.
- Study the effects of cryopreservation on mesenchymal stem cells isolated from adipose tissue of sheep, dog and peripheral blood of horse/sheep.
- In vivo study on sheep/horse tendon/skin regeneration
- Production of biomaterials and development of a biocompatible tendon scaffold cellularized with adipose derived stem cells.

- Responsible for the BCA Service named: Vet Stem Cells Services

- Prof. Patruno has gained the national scientific "abilitation" (ASN) for the Veterinary sector 07/H1 on the 3-12-2013 and 24-10-2018

Scientific publications and miscellaneous

- **h-index**: **28** (scopus) **31** (google scholar) 2673 citations

- Author of more than 150 international publications of which 70 full papers, 9 chapters in books of international interest, 61 international congress (14 times speaker), 38 national congress (9 times speaker); in collaboration with other colleagues, a text book of Embryology.
- National winner as "young researcher" at the 4° National Congress of Veterinary Morphology (2004, University of Torino).
- Supervisor of fellowship projects of many Italian postdocs in foreign institutions;
- Reviewer of projects for national and international agencies (ISF, ALW, Italian MIUR, and The French National Research Agency);
- Reviewer for ARTI, Agenzia Regionale per la Tecnologia e l'Innovazione, Regione Puglia ("FutureInResearch").
- Reviewer of scientific papers for a number of peer reviewed international journals (Animal Genomics; Cell and Tissue research; The Anatomical Record; Journal of Histochemistry and Cytochemistry; European Journal of Histochemistry; Comparative Biochemistry and Physiology; Genes development and evolution; Histochemistry and Cell Biology; Stem Cells; Tissue Engineering; Equine Veterinary Journal)
- Review Editor, Frontiers in Veterinary Science journal, Veterinary Regenerative Medicine
- Part of the Editorial Board for BMC Veterinary Research
- Member associate of the Society for Experimental Biology (UK), Italian Association Veterinary Morphology, Group ABCD-Regulation of Development and the International Veterinary Regenerative Medicine Society (IVRMS).
- Divulgative paper in the Vet. Journal. (2012): http://www.vetjournal.it/approfondimento.php?codnotizia=5259
- Ecm journal, Divulgative paper about the research of Prof Patruno. Successful Recellularization of Human Tendon Scaffolds Using Adipose-Derived Mesenchymal Stem Cells and Collagen Gel, by Martinello et al. http://connexoncreative.com/publications/archives/ECM324.aspx
- -JEB journal; Divulgative paper about the research of Prof. Patruno. Out of place isoform: http://jeb.biologists.org/content/207/11/ii
- - Coordinator of iMOVES, International Mobility Of VEterinary Students (2014-18): thanks to regular funding, each year, 10 Italian

	and 10 American students join the summer school program involving Food Safety & Veterinary Clinical Rotations. - Participating in the organization of the European Journal of Translational Myology,: Functional Rejuvenation in Aging and Neuromuscular Disorders. Villa Emy B&B, Stra, Venice & Padova (Italy), September 29&30, 2015 - Participating in the organization of the 2016 Spring Padua Muscle Days: Muscle Decline in Aging and Neuromuscular Disorders Mechanisms and Countermeasures. Terme Euganee, Padova (Italy), April 13 - 16, 2016
Date	2000 – 2001
Occupation or position held	Post-Doc position
Main activities and responsibilities	One year of laboratory research aimed to clone genes important during regenerative processes.
Institution	Neural Development Group, Kings College, University of London, UK. Supervisor: Prof. A. Graham
Date	2000
Occupation or position held	PhD in embryology obtained at the Royal Holloway, University of London
Main activities and responsibilities	PhD student: investigation of molecules involved in tissue regeneration
Institution	School of Biological Sciences, Royal Holloway, University of London Supervisor: Prof. M. Thorndyke
Date	1996 -1997
Occupation or position held	Post graduate researcher
Main activities and responsibilities	Research topic: study the satellite stem cells during the muscle growth of *S. aurata*. In 1996 I won a grant (named “perfezionamento all’estero”) used to work at the laboratory of Prof. M. Thorndyke, University of London. In the latter University I obtained, in 1997, another grant as an “outstanding” student, which allowed the payment of fees for the three year PhD course.
Institution	University of Milan, Dept. of Biology. Supervisor: Prof. MD Candia Carnevali
Date	1995 - 1996
Qualification	Student work placement in the laboratory of Prof. A. Rowlerson.
Main activities and responsibilities	Immunohistochemistry on myogenic factors during the development of different animal species.
Institution	University of London, Division of Physiology, United Medical and Dental Schools (UMDS) of Guy's and St. Thomas's Hospital. Supervisor: Prof. A. Rowlerson
Date	1995
Qualification	Master degree in Animal Sciences (110/110 cum laude)
Institution	University of Veterinary Medicine, Milan

Invited speaker

- August 2002, Royal Swedish Academy of Sciences, Kristineberg Marine Research Station
- March 2003, invited speaker at SEB, Southampton (UK).
- October 2013, Invited speaker at Sau Paolo Hospital, Brasil: public lecture by Prof. Patruno at the Department of Orthopedics and Traumatology, UNESP, School of Medicine, Sau Paolo, Brasil to discuss the use of PRP and MSC in Human and Veterinary Medicine.
- in 2013 Invited speaker at Cairo University (Egypt), Veterinary Faculty
- in 2015 Invited speaker at TERMIS international conference in 2015, Genova (Italy) and 2016, Uppsala (Sweden)
- July 2015, 2017 Invited speaker at Texas A&M, USA. Scientific seminars for Vet students
- May 2017, Invited speaker at Sydney University, AU. Scientific seminars for Vet students
- July 2016, 2017, Invited speaker at Colorado State University, USA. Scientific seminars for Vet students
- July 2017, Invited speaker at Kansas State University, USA. Scientific seminars for Vet students
- 2019, may, Visiting scientist invited by Prof. Thomas Lutz, Università di Zurigo, Institute of Veterinary Physiology, Svizzera
- 2019, august, Visiting researcher at Malta , Prof. JM Delalande (Queen Mary University of London, Malta Ltd. Triq L-Arċisqof Pietru Pace, Victoria, VCT 2570).
- 2020, march, Visiting scientist: “Long-Term Elasmobranch Conservation At The Ocean Cay MSC Marine Reserve” finanziato dalla Fondazione MSC presso CORE (The Centre for Ocean Research and Education), Gregory Town, Eleuthera, The Bahamas. www.coresciences.org
- 2021 august, seminars and lectures at University of Kwazulu Natal for the ErasmusKA107 program (Durban, South Africa)
- 24/28 October 2022, invited at Biotechmeet22 2ND INTERNATIONAL MEET ON BIOTECHNOLOGY AND BIOENGINEERING at Dubai (Emirates)
- 9/11 December 2022, invited at the 4th World Congress on Veterinary Medicine & Animal Care Veterinary at Dubai (Emirates)

Grants

1997, winner of a grant, named “perfezionamento all’estero” from the University of Milan used to work at the laboratory of Prof. M. Thorndyke, University of London.

- 1998 winner of a grant as an “outstanding” student, which allowed the payment of fees for the three years doctoral course.
- Responsible of the European project which promoted exchange between European scientists (ARI Project, http://www.cordis.lu/improving/).
- MIUR national grant (2002) in collaboration with prof. Carlo Reggiani and Vincenzo Lombardi (University of Florence).
- MIUR national grant (2004) in collaboration with prof. Carlo Reggiani (University of Padova).
- MIUR national grant (2006) in collaboration with prof. Carlo Reggiani and Stefano Schiaffino (University of Padova).
- Responsible of a research national grant regarding the effects of electrostimulation on muscle biology (2007-2009).
- Participant of a national research grant named “Special muscles in dog and human: study of muscle differentiation and remodelling” (2011-2013)
- Responsible of a local research grant regarding the use of Stem Cells in the Veterinary Field, from the University of Padova (2010-2012).
- Responsible for the project: “Stem cell-based treatments and biomimetic approaches for improving tendon regeneration." Progetto di Ateneo 2013.
- ASA s.r.l. Company (Italy); 2014 Grant: use of Laser Technologies to treat tendon disorders.
- 2016, BIRD161823/16 "Assegno di Ricerca: Skin regeneration: a comparative

study among conventional vs innovative therapies in Veterinary Medicine."
- 2016, BIRD161771 Participating to the project: “Exploring extracellular vesicles in mammary cancer of dogs and cats: identification and preliminary investigation of their potential role as intercellular “shuttles” of signals with clinical relevance”.
- 2016-2017, GST – ANACURA (BELGIUM): granted for the project: “Induction of horses mesenchymal stem cells towards the tenogenic fate.”
- 2017, BIRD179241/17, "Assegno di Ricerca: “Induction of mesenchymal stem cells towards the tenogenic fate: an in vitro study”
- 2017, BIRD179751, Participating to the project: L’applicazione del cross-linking per il trattamento di lesioni corneali collagenolitiche sperimentalmente indotte in un modello porcino ex-vivo: valutazioni istologiche ed immunoistochimiche del processo riparativo."
- 2017: winner of the basic research grant (MIUR)
- 2017 PI / National Coordinator of the PRIN 2017. BRITEs project. BRITEs: Byproduct Recycling: Innovative TEchnology from the Sea

- 2019 Local PI “Circular” Chain for Innovative ReCycling (Fondazione CARIPARO)

- Horizon H2020: Participation as Coordinator of the European Project EMOTION: nEw Marine biOmaTerIals fOr skiN restoration: optimal yield solutions (Not Funded) Score:8/10

- 2020: project “Long-Term Elasmobranch Conservation At The Ocean Cay MSC Marine Reserve” supported by **(MSC Foundation)** and directed by Dr. O. O’Shea at CORE (The Centre for Ocean Research and Education), Gregory Town, Eleuthera, The Bahamas. www.coresciences.org

2020-2021, **Boehringer Ingelheim (Belgium)**: **Principal investigator** of service named: ELISA and PCR methodologies for protein and genetic analyses of equine mesenchymal stem cells (eMSCs)”
2022-23 Boehringer Ingelheim, Veterinary medicine (Belgium): Principal investigator of the contract named: “activity of In vitro and in vivo assessment of the efficacy and mode of action of equine mesenchymal stem cells”.
2022-25 Boehringer Ingelheim, Veterinary Medicine (Belgium): Supervisor of the Industrial PhD program sponsorship by BI Ing.

TEACHING GRANTS
- iMOVES (International Mobility of Veterinary Students) project: 2008, 2012, 2014 and 2016. Ateneo of Padova, Shaping a world class-University, grants obtained in 2020, 2021 and 2022 for the summer schools held in Legnaro and in USA.
- 2013, grant from the Ateneo of Padova for the mobility of researchers, named Cooperazione Universitaria
- 2019 and 2020 Erasmus KA107 with South Africa (University of Kwazulu Natal, Durban, ZA)

Personal skills and competences

Mother tongue: Italian

Other languages

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

(*) Common European Framework of Reference for Languages

Technical skills and competences

Animal Model

Coordinator and participating of the following projects involving sheep and rodents:

- Sheep:CEASA, Ministero della Salute Italiana per l'uso di animali sperimentali, codice: DM no. 97/2010-B.
- Sheep: approval by The Body for the Protection of Animals (OPBA), by ministerial decree n° 51/2015-PR released by the Health Department of Italy.
- Mice: approval of the institutional animal care committee (CIRSAL — Interdepartmental Center for Experimental Research with Laboratory Animals of the University of Verona; protocol n 18 tit VII/5, December 20, 2006) and the Italian Ministry of Health, following the National Institute of Health Guide for the Use and Care of Laboratory Animals and in accordance with European Communities Council Directives (86/609/EEC).
- Rats: Approval n° 57/2022-PR (Risposta a prot. C35DE.10)
- Sheep: 2022-23, under evaluation

Molecular biology

Blood sample processing, RNA and DNA extraction from various types of tissues, RNA quality control (Agilent Bioanalyzer 2100), PCR, qRT-PCR, Sanger sequencing,primer design, protein extraction,Western Blot 454 Sequencing,Sanger Sequencing, Gene expression Profiling, RNA DNA extraction. PCR and real time PCR.

Gene expression profiling

Sample processing
Data analysis: Partek Genomic Suite Software, OneChannel GUI - R Bioconductor, Gene Ontology Analysis,GSEA.

Next Generation Sequencing

Library preparation
Data analysis of 454 Amplicon Ultra deep sequencing and Linux software

Cellular biology

In vitro culture of suspension and adherent cells, differentiation and identification of mesenchymal stem cells. Stem cells isolation from adipose tissue and from peripheral blood of sheep, dog and horse. Cellular transfection. In vitro explants of cartilage tissue. Isolation of adult stem cells by magnetic beads sorting (MACS).

Biochemical Analysis

Immunofluorescence and Immunohistochemical procedures.

Histological Analysis

Tissue processing and embedding, section of different tissue with microtome and cryostat, classical, immunochemical and enzymatic staining.

Organisational skills and competences

Ability to teamwork and research initiative, attitude for organization, to learn new techniques and to acquire new competences.

Computer skills and competences

Suites Office, (Microsoft Word, Excel, Access and Powerpoint), Adobe Acrobat. General browsers.

Driving licence

Yes (AM B)

Recent Publications (from 2013)

* = in the following papers, Prof. Patruno is *corresponding author*

FRANINI et al Patruno* Case Report: Flexor carpi ulnaris tendinopathy in a lure-coursing dog treated with three platelet-rich-plasma and platelet lysate injections. Front Vet Sci (in press)

Elshazly et al Patruno* Nanoscale Borate-based Bioactive Glass for regenerative therapy of full-thickness skin defects in healthy and diabetic rabbits Frontiers in Bioengineering and Biotechnology (submitted)

LIEN GYSENS, EVA DEPUYDT, MARCO PATRUNO, MAARTEN HASPESLAGH, JAN H. SPAAS, ANN MARTENS. Immunogenicity analysis of BPV-1 in vivo transformed equine fibroblasts (submitted)

-) MELOTTI L, CAROLO A, ELSHAZLY N, BOESSO F, DA DALT L. GABAI G, PERAZZI A, IACOPETTI I, PATRUNO M*. Case Report: Repeated Intralesional Injections of Autologous Mesenchymal Stem Cells Combined With Platelet-Rich Plasma for Superficial Digital Flexor Tendon Healing in a Show Jumping Horse. Front Vet Sci. 2022 Feb 18;9:843131. doi: 10.3389/fvets.2022.843131. eCollection 2022.PMID: 35252428

-) EVA DEPUYDT, SARAH Y BROECKX, KOEN CHIERS, MARCO PATRUNO, LAURA DA DALT, LUC DUCHATEAU, JIMMY SAUNDERS, FREDERIK PILLE, ANN MARTENS, LORE VAN HECKE AND JAN H. SPAAS 2022. "Cellular and humoral immunogenicity investigation of single and repeated allogeneic tenogenic primed mesenchymal stem cell treatments in horses suffering from tendon injuries" Front Vet Sci. 2022 Feb 24;8:789293. doi: 10.3389/fvets.2021.789293. eCollection 2021.PMID: 35281431

-) LORE VAN HECKE, CARMELO MAGRI, LUC DUCHATEAU, CHARLOTTE BEERTS, FLORIAN GEBUREK, MARC SULS, LAURA DA DALT, MARCO PATRUNO, SARAH Y. BROECKX, EVA DEPUYDT, JAN H. SPAAS. Repeated intra-articular administration of equine allogeneic peripheral blood-derived mesenchymal stem cells on cellular and humoral immune response. Veterinary Immunology and Immunopathology. 2021 *Sep 239:110306. doi: 10.1016/j.vetimm.2021.110306.)*

-) MELOTTI L, MARTINELLO T, PERAZZI A, IACOPETTI I, FERRARIO C, SUGNI M, SACCHETTO R, PATRUNO* M A prototype skin substitute, made of recycled marine collagen, improves the skin regeneration of sheep. Animals (Basel) 2021 Apr 23;11(5):1219. doi: 10.3390/ani11051219.

-) MELOTTI L, MARTINELLO T, PERAZZI A , MARTINES E , ZUIN M , MODENESE D, CORDARO L , FERRO S, LISA MACCATROZZO L, IACOPETTI I, PATRUNO M*. Could cold plasma act synergistically with allogeneic mesenchymal stem cells to improve wound skin regeneration in a large size animal model? Res Vet Sci. 2021, 28;136:97-110. doi: 10.1016/j.rvsc.2021.01.019.

-) IACOPETTI I, PATRUNO* M, MELOTTI L, MARTINELLO T, BEDIN S, BADON T, RIGHETTO E, PERAZZI A. Autologous platelet-rich plasma enhances the healing of large cutaneous wounds in dogs. Frontiers in Veterinary Science. 2020 doi: https://doi.org/10.3389/fvets.2020.575449

-) E. MARTINES, P. BRUN, R. CAVAZZANA, L. CORDARO, M. ZUIN, T. MARTINELLO, C. GOMIERO, A. PERAZZI, L. MELOTTI, L. MACCATROZZO, M. PATRUNO*, I. IACOPETTI "Wound healing improvement in large animals using an indirect helium plasma treatment" Clinical Plasma Medicine 17–18 (2020) 100095

-) FERRARIO C, RUSCONI F, PULAJ A, MACCHI R, LANDINI P, PARONI M, COLOMBO G, MARTINELLO T, MELOTTI L, GOMIERO C, CANDIA CARNEVALI MD, BONASORO F, PATRUNO* M, SUGNI M. From Food Waste to Innovative Biomaterial: Sea Urchin-Derived Collagen for Applications in Skin Regenerative Medicine. Mar Drugs. 2020 Aug 6;18(8):E414. doi: 10.3390/md18080414.

-) ELSHAZLY N, KHALIL A, SAAD M, PATRUNO* M, CHAKRABORTY J, MAREI M. Efficacy of Bioactive Glass Nanofibers Tested for Oral Mucosal Regeneration in Rabbits with Induced Diabetes. Materials (Basel). 2020 Jun 7;13(11):2603. doi: 10.3390/ma13112603.

-) SAMMARCO A, GOMIERO C, SACCHETTO R, BEFFAGNA G, MICHIELETTO S, ORVIETO E, CAVICCHIOLI L, GELAIN ME, FERRO S, PATRUNO M, ZAPPULLI V. Wnt/β-Catenin and Hippo Pathway Deregulation in Mammary Tumors of Humans, Dogs, and Cats. Vet Pathol. 2020 Aug 18:300985820948823. doi: 10.1177/0300985820948823. Online ahead of print.

-) PERAZZI A, GOMIERO C, CORAIN L, IACOPETTI I, GRISAN E, LOMBARDO M, LOMBARDO G, SALVALAIO G, CONTIN R, PATRUNO M, MARTINELLO T, PERUFFO A. An Assay System to Evaluate Riboflavin/UV-A Corneal Phototherapy Efficacy in a Porcine Corneal Organ Culture Model. Animals (Basel). 2020 Apr 23;10(4):E730. doi: 10.3390/ani10040730.

-) IRIS RIBITSCH, PEDRO M. BAPTISTA, ANNA LANGE-CONSIGLIO, LUCA MELOTTI, MARCO PATRUNO, FLORIEN JENNER, EVA SCHNABL-FEICHTER, Luke C. Dutton, David J. Connolly, Frank G. van Steenbeek, Jayesh Dudhia and Louis C. Penning. Large Animal Models in Regenerative Medicine and Tissue Engineering: To Do or Not to Do. Front. Bioeng. Biotechnol., 13 August 2020 | https://doi.org/10.3389/fbioe.2020.00972

-) IACOPETTI I, PERAZZI A, MARTINELLO T, GEMIGNANI F, PATRUNO* M. Hyaluronic acid, Manuka honey and Acemannan gel: Wound-specific applications for skin lesions. Res Vet Sci. 2020 Jan 11;129:82-89. doi: 10.1016/j.rvsc.2020.01.009.

-) CANCELLARA L, QUARTESAN S, TONIOLO L, REGGIANI C, MELOTTI L, FRANCOLINI M, MASCARELLO F, MACCATROZZO L, PATRUNO* M. Age-dependent variations in the expression of myosin isoforms and myogenic factors during the involution of the proximal sesamoidean ligament of sheep. Res Vet Sci. 2019, 124:270-279.

-) MELOTTI L, VEZZOLI E, MASCARELLO F, MACCATROZZO L, PATRUNO* M. The natural involution of the sheep proximal sesamoidean ligament is due to depletion of satellite cells and simultaneous proliferation of fibroblasts: Ultrastructural evidence. Res Vet Sci. 2019, 8;124:106-111. doi: 10.1016/j.rvsc.2019.03.005

-) MARTINELLO T, GOMIERO C, PERAZZI A, IACOPETTI I, GEMIGNANI F, DEBENEDICTIS GM, FERRO S, ZUIN M, MARTINES E, BRUN P, MACCATROZZO L, CHIERS K, SPAAS JH, PATRUNO* M. Allogeneic mesenchymal stem cells improve the wound healing process of sheep skin. BMC Vet Res. 2018;14:202. doi: 10.1186/s12917-018-1527-8.

-) PATRUNO* M, PERAZZI A, MARTINELLO T, GOMIERO C, MACCATROZZO L, IACOPETTI I. Investigations of the corneal epithelium in Veterinary Medicine: State of the art on corneal stem cells found in different mammalian species and their putative application. Res Vet Sci. 2018;118:502-507. doi: 10.1016/j.rvsc.2018.05.006.

-) RAVARA B, GOBBO V, INCENDI D, PORZIONATO A, MACCHI V, CARO R, COLETTI D, MARTINELLO T, PATRUNO* M. Revisiting the peculiar regional distribution of muscle fiber types in rat Sternomastoid Muscle. Eur J Transl Myol. 2018 Mar 1;28(1):7302. doi: 10.4081/ejtm.2018.7302. PMID: 29686819

-) GIURIATI W, RAVARA B, PORZIONATO A, ALBERTIN G, STECCO C, MACCHI V, CARO R, MARTINELLO T, GOMIERO C, PATRUNO M, COLETTI D, ZAMPIERI S, NORI A. Muscle spindles of the rat sternomastoid muscle. Eur J Transl Myol. 2018, 13;28(4):7904.

-) PATRUNO* M, MELOTTI L, GOMIERO C, SACCHETTO R, TOPEL O, MARTINELLO T. A mini-review of TAT-MyoD fused proteins: state of the art and problems to solve (2017) Eur J Transl Myol 27: 234-238. doi: 10.4081/ejtm.2017.6039

-) PATRUNO* M, GOMIERO C, SACCHETTO R, TOPEL O, NEGRO A, MARTINELLO T. Tat-MyoD fused proteins, together with C2c12 conditioned medium, are able to induce equine adult mesenchimal stem cells towards the myogenic fate. Vet Res Commun. 2017. Vol 41:211-217. doi: 10.1007/s11259-017-9692-y.

-) MAGRO M, MARTINELLO T, BONAIUTO E, GOMIERO C, BARATELLA D, ZOPPELLARO G, COZZA G, PATRUNO M, ZBORIL R, VIANELLO F. Covalently bound DNA on naked iron oxide nanoparticles: Intelligent colloidal nano-vector for cell transfection. 2017. 1861(11PtA):2802-2810.

-) PERAZZI ANNA, BONSEMBIANTE FEDERICO, GELAIN MARIA ELENA, PATRUNO MARCO, ENZO DI IORIO, MIGLIORATI ANGELO, IACOPETTI ILARIA (2017). Cytology of the healthy canine and feline ocular surface: comparison between cytobrush and impression technique. VETERINARY CLINICAL PATHOLOGY, Vol. 46:164-171. ISSN: 0275-6382, doi: 10.1111/vcp.12450

-) PATRUNO* M, PERAZZI A., MARTINELLO T., BLASEOTTO A., DI IORIO E., IACOPETTI I. (2017). Morphological description of limbal epithelium: searching for stem cells crypts in the dog, cat, pig, cow, sheep and horse. VETERINARY RESEARCH COMMUNICATIONS, Vol. 41: 1694-173, ISSN: 0165-7380, doi: 10.1007/s11259-017-9676-y

-) SPAAS JAN H., GOMIERO CHIARA, BROECKX SARAH Y., VAN HECKE LORE, MACCATROZZO LISA, MARTENS ANN, MARTINELLO TIZIANA, PATRUNO* MARCO (2016). Wound-healing markers after autologous and allogeneic epithelial-like stem cell treatment. CYTOTHERAPY, vol. 18, ISSN: 1465-3249, doi: 10.1016/j.jcyt.2016.01.008

-) GOMIERO CHIARA, BERTOLUTTI GIULIA, MARTINELLO TIZIANA, VAN BRUAENE NATHALIE, BROECKX SARAH Y., PATRUNO* MARCO, SPAAS JAN H. (2016). Tenogenic induction of equine mesenchymal stem cells by means of growth factors and low-level laser technology. VETERINARY RESEARCH COMMUNICATIONS, vol. 40, ISSN: 0165-7380, doi: 10.1007/s11259-016-9652-y

-) ILARIA IACOPETTI, ANNA PERAZZI, VALENTINA MANIERO, TIZIANA MARTINELLO, MARCO PATRUNO, MILJANA GLAZAR, ROBERTO BUSETTO (2015). Effect of MLS®Laser Therapy with Different Dose Regimes for the Treatment of Experimentally Induced Tendinopathy in Sheep: Pilot Study. PHOTOMEDICINE AND LASER SURGERY, vol. 33, p. 154-163, ISSN: 1549-5418, doi: 10.1089/pho.2014.3775

-) PERAZZI A., PATRUNO M., MARTINELLO T., GLAZAR M., IACOPETTI I (2015). Effect of MLS® laser therapy for the treatment of experimentally induced acute tendinopathy in sheep – a preliminary study. ENERGY FOR HEALTH, vol. 14, p. 4-7, ISSN: 2281-3268

-) MARTINELLO T, PASCOLI F, CAPORALE G, PERAZZI A, IACOPETTI I, PATRUNO* M (2015). Might the masson trichrome stain considereda useful method for categorizing experimental tendon lesions? HISTOLOGY AND HISTOPATHOLOGY, ISSN: 0213-3911, doi:10.16470/HH-11-601

-) PATRUNO* M, MARTINELLO T (2014). Treatments of the injured tendon in Veterinary Medicine: from scaffolds to adult stem cells. HISTOLOGY AND HISTOPATHOLOGY, vol. 29, p. 417-422, ISSN: 0213-3911

-) BENEDETTO CD, BARBAGLIO A, MARTINELLO T, ALONGI V, FASSINI D, CULLORÀ E, PATRUNO M, BONASORO F, BARBOSA MA, CARNEVALI MD, SUGNI M (2014). Production,characterization and biocompatibility of marine collagen matrices from an alternative and sustainable source: the sea urchin Paracentrotus lividus.. MARINE DRUGS, vol. 12, p. 4912- 4933, ISSN: 1660-3397, doi: 10.3390/md12094912

-) GALGANO M, SPALLA I, CALLEGARI C, PATRUNO M, AURIEMMA E, ZANNA G, FERRO S, ZINI E. (2014). Primary Hypothyroidism and Thyroid Goiter in an Adult Cat.. JOURNAL OF VETERINARY INTERNAL MEDICINE, vol. 28, p. 682-686, ISSN: 0891-6640, doi:10.1111/jvim.12283. -Impact Factor 1.879

-) BROECKX SY, MAES S, MARTINELLO T, AERTS D, CHIERS K, MARIËN T, PATRUNO M,FRANCO-OBREGON A, SPAAS JH. (2014). Equine epidermis: a source of epithelial-like stem/progenitor cells with in vitro and in vivo regenerative capacities. STEM CELLS AND DEVELOPMENT, vol. 23, p. 1134-1148, ISSN: 1547-3287, doi: 10.1089/scd.2013.0203.

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