



# Curriculum Vitae

## Personal information

First name / Surname **Marco Vincenzo Patruno**

E-mail marco.pat@unipd.it

Nationality Italian

Gender Male

**Occupational field Associate Professor in Veterinary Anatomy and Embryology**

## 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, Histology and Embryology for the Veterinary and Biotechnology course; 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 Dept.  
- iMOVES coordinator for BCA/MAPS Dept. (international mobility of veterinary students, Summer School)  
- Member of EMA (European Medicine Agency)  
- Member of the Editorial Board of BMC Veterinary Science  
- Associate Editor for the journal Frontiers in Veterinary Science  
Research topics:  
- Characterization of adult stem cells in veterinary medicine  
- Study the effects of cryopreservation on mesenchymal stem cells isolated from adipose tissue of dog and peripheral blood of horse.

Scientific publications and miscellaneous

- In vivo study on sheep/horse tendon/skin regeneration
- Development of a human biocompatible tendon scaffold re-cellularized with adipose derived stem cells.
- Results obtained during these years allowed to widen, also in the veterinary field, knowledge and potential application of stem cells obtained from peripheral blood or adipose tissue. In particular, we have investigated the potential application of stem cells in tendon and skin regeneration both in sheep and horses.
  
- 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
  
- PI / Coordinator of the National PRIN-MIUR 2017. BRITEs project. BRITEs: Byproduct Recycling: Innovative TEchnology from the Sea
  - H2020: Participation as Coordinator of the European Project EMOTION: nEw Marine biOmaTerlals fOr skiN restoration: optimal yield solutions (submission 12-12-19) Score:8/10
  
- EMA (European Medicines Agency) expert on Stem Cells in the veterinary field.
  
- Local PI of the project "Circular" Chain for Innovative ReCycling: sea Urchin food by-products for zero waste-based muLtipLe Applications. Score: Outstanding Bando: "Economia Circolare: ricerca per un futuro sostenibile", promosso da Fondazione Cariplo nell'anno 2019.
  
  
- h-index: 25
  
  
- Author of more than 150 international publications of which 69 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).
  - The research group led by Prof. Patruno has characterized adult stem cells from blood of the horse and adipose tissue of the dog and showed that cryopreservation does not modify their “stemness” features; recent studies focus on evaluating the regenerative potential of stem cells for the regular dense connective tissue (tendons), in vitro and in vivo. The same research group furnishes a service for Veterinarians named “Stem Cell Services” dedicated to the analysis and cryopreservation of stem cells of several animals.
- 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 <i>S. aurata</i> . 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. Rowleron.
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. Rowleron
Date	1995
Qualification	Master degree in Animal Sciences (110/110 cum laude)
Institution	University of Veterinary Medicine, Milan
<b>Invited speaker</b>	
	- August 2002, Royal Swedish Academy of Sciences, Kristineberg Marine Research Station - March 2003, invited speaker at SEB, Southampton (UK).
Date	- October 2013, Invited speaker at Sao Paulo Hospital, Brasil: public lecture by Prof. Patruno at the Department of Orthopedics and Traumatology, UNESP, School of Medicine, Sao Paulo, 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
<b>Grants</b>	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, <a href="http://www.cordis.lu/improving/">http://www.cordis.lu/improving/</a> ). - 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 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: sea Urchin food by-products for zero waste-based muLtipLe Applications
- H2020: Coordinator of the European Project EMOTION (submission 12-12-19)
- 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](http://www.coresciences.org)

2020-2021, **GST Anacura: Principal investigator** of the project ELISA and PCR methodologies for protein and genetic analyses of equine mesenchymal stem cells (eMSCs)"

#### TEACHING GRANTS

- iMOVES (International Mobility of Veterinary Students) project: 2008, 2012, 2014 and 2016 (50.000€ in 2008, 15.000€ in 2012, 18.000€ in 2014, 16.000€ in 2016, 8.500€ in 2018).
- 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  
European level (\*)

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
C1	C1	C1	C1	C1	

English

(\*) Common European Framework of Reference for Languages

**Technical skills and competences**

**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 human, 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)

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

**Recent Publications (from 2013)**

-) LORE VAN HECKE, CARMELO MAGRI, LUC DUCHATEAU, CHARLOTTE BEERTS, FLORIAN GEBUREK, MARC SULS, LAURA DA DALT, MARCO PATRINO, SARAH Y. BROECKX, EVA DEPUYDT, JAN H. SPAAS. The effect of repeated intra-articular administration of equine allogeneic peripheral blood-derived mesenchymal stem cells on cellular and humoral immune response. *Veterinary Immunology and Immunopathology*. (2021, in press)

-) MELOTTI L, MARTINELLO T, PERAZZI A, IACOPETTI I, FERRARIO C, SUGNI M, SACCHETTO R, PATRINO M\*. A novel skin substitute, made of recycled marine collagen, improves skin regeneration in a sheep model. *Animals (Basel)* 021 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, MICHIELETTI S, ORVIETO E, CAVICCHIOLI L, GELAIN ME, FERRO S, PATRUNO M, ZAPPULLI V. Wnt/ $\beta$ -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. [Epub ahead of print]
- ) 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 mesenchymal 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 considered a 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 -Impact Factor 2.853
- ) 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.  
15) MARTINELLO T, BRONZINI I, VOLPIN A, VINDIGNI V, MACCATROZZO L, CAPORALE G, BASSETTO F, PATRUNO M. (2014). Successful recellularization of human tendon scaffolds using adipose-derived mesenchymal stem cells and collagen gel.. JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol. 8, p. 612-619, ISSN: 1932-6254, doi:10.1002/term.1557 -Impact Factor 5.199  
-) PERAZZI A., BUSETTO R., MARTINELLO T., DRIGO M., PASOTTO D., CIAN F., PATRUNO M., IACOPETTI I. (2013). Description of a double centrifugation tube method for concentrating canine platelets BMC VETERINARY RESEARCH, 146, ISSN: 1746-6148, doi: 10.1186/1746-6148-9-146  
-) RENZI S, RICCÒ S, DOTTI S, SESSO L, GROLLI S, CORNALI M, CARLIN S, PATRUNO M, CINOTTI S, FERRARI M. (2013). Autologous bone marrow mesenchymal stromal cells for regeneration of injured equine ligaments and tendons: A clinical report. RESEARCH IN VETERINARY SCIENCE. 95:272-7. (ISSN:0034-5288) doi: 10.1016/j.rvsc.2013.01.017  
-) MARTINELLO T., BRONZINI I., PERAZZI A., TESTONI S., DE BENEDICTIS G.M, NEGRO A., CAPORALE G., MASCARELLO F., IACOPETTI I., PATRUNO\* M. (2013). Effects of in vivo applications of peripheral blood-derived mesenchymal stromal cells (PB- MSCs) and platelet-rich plasma (PRP) on experimentally injured deep digital flexor tendons of sheep. JOURNAL OF ORTHOPAEDIC RESEARCH (ISSN:0736-0266), 306- 314, 31;

Padova 02-08-2021

Signature