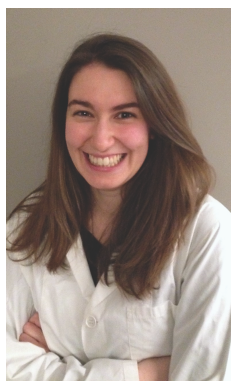


PERSONAL INFORMATION

Marta Bottagisio



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 marta.bottagisio@grupposandonato.it; marta.bottagisio@unimi.it

 Skype marta.bottagisio

Sex Female | Date of birth 01/17/1988 | Nationality Italian

POSITION **Veterinary Biotechnologist**

WORK EXPERIENCE

May 2017–Present **Visiting Researcher**
at Medical Biofilm Laboratory, Center for Biofilm Engineering – Montana State University, USA

Nov 2014–Present **Ph.D. Student in Veterinary and Animal Science**
at Cell and Tissue Engineering Laboratory - Galeazzi Orthopaedic Institute, Milan

Jul 2014–Oct 2014 **Laboratory Attendant**
at Cell and Tissue Engineering Laboratory - Galeazzi Orthopaedic Institute, Milan

Jan 2014–Jul 2014 **Internship**
at Cell and Tissue Engineering Laboratory - Galeazzi Orthopaedic Institute, Milan

1 Oct 2012–20 Feb 2013 **Internship**
at the molecular genetics laboratory of the Department of Health, Animal Science and Food Safety, Faculty of Veterinary Medicine, University of Milan

EDUCATION AND TRAINING

1 Nov 2014–Present **Ph.D. Course in Veterinary and Animal Science**
University of Milan, Milan (Italy)

Mar 2016–May 2016 **Course on Laboratory Animal Welfare and Animal Care – Advanced Level**
University of Milan, Milan (Italy)

Feb 2013–Jul 2014 **Master degree in Veterinary Biotechnology Science**
University of Milan, Milan (Italy)
Graduation Thesis Title: Dynamic culture of ovine bone marrow stem cell loaded-constructs for bone tissue engineering

Final Grades: 110/110 with honors

Oct 2009–Feb 2013 Academic Degree in Veterinary Biotechnology

University of Milan, Milan (Italy)

Graduation Thesis Title: Application of molecular tests to determine the coat color of the Akhal-Teké horse breed.

Final Grades: 101/110

23 Apr 2015 Certificate of attendance

Biomedia

Via Temolo, 4, 20126 Milan (Italy)

Attendance to the course "Systematic reviews: how to use it and how to read a meta-analysis" and consequent issuance of certification.

17 Nov 2014–21 Nov 2014 Certificate of attendance

San Raffaele Hospital, Milan (Italy)

Attendance to the course "Animal experimentation 2014" and consequent issuance of certification.

3 Jul 2014–4 Jul 2014 Certificate of attendance

University of Genoa, Genoa (Italy)

Attendance to the course "Cell culture: alternative methods" and consequent issuance of certification.

2002–2007 Secondary School Diploma

Istituto Magistrale G. Agnesi, Milan (Italy)

Secondary school specializing in modern languages (English, German and Spanish)

Final Grades: 85/100

Mar 2007 Certificate of attendance

Giralda Center (Seville, Spain)

Two weeks of formative apprenticeship in Seville, Spain: attendance to Spanish courses and consequent issuance of certification.

Mar 2006 Certificate of attendance

DID Deutsch institute (Berlin, Germany)

Two weeks of formative apprenticeship in Berlin, Germany: attendance to German courses and consequent issuance of certification.

Mar 2005 Certificate of attendance

Aspect College Edinburgh (Edinburgh, United Kingdom)

Two weeks of formative apprenticeship in Edinburgh, United Kingdom: attendance to English courses and consequent issuance of certification.

Jun 2004 Certificate of attendance

EF - Education First (St. Julians, Malta)

Two weeks of formative apprenticeship in St. Julians, Malta: attendance to English courses and consequent issuance of certification.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Preliminary English test (PET) B1 - GIU/2002					
Spanish	B1	B1	A2	A2	A2
German	A2	A2	A2	A2	A2
French	B1	B1	A2	A2	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Job-related skills

- Isolation of primary cell lines from human and animal tissues such as bone marrow, fat and cartilage;
- Static and dynamic cell culture of primary eukaryotic and prokaryotic cell lines;
- Evaluation of cell proliferation (Alamarblue, CyQuant e Trypan Blue test) and viability (MTT);
- Evaluation of cell osteogenic differentiation (ALP activity assay, Alizarin Red S and von Kossa staining);
- Evaluation of tissue collagen content (Sirius red assay);
- Tissue decellularization (tendon);
- RNA extraction, retrotranscription to cDNA and Real Time PCR (Taqman and SYBR green); PCR (standard and gradient PCR);
- Laboratory animal handling, care and basic surgical procedures;
- Histology and immunohistochemistry of *ex vivo* specimens;
- Bacterial isolation, culture (sessile and planktonic form) and identification;
- Biofilm assessment (spectrophotometric assay);
- Bacterial DNA extraction;
- Protein extraction and quantification,
- One and two-dimensional protein separation (Isoelectrofocusing and SDS-Page electrophoresis);
- Analysis of protein map through the Progenesis SameSpot v4.5 software (Nonlinear Dynamics, UK)

Computer skills

- Good command of office suite (Microsoft Word, PowerPoint, Excel)
- Good command of statistical software (IBM SPSS, PRISM)

ADDITIONAL INFORMATION

Academic Honors & Awards

Awards:

- Progetto Professionalità “Ivano Becchi” – Fondazione Banca del Monte di Lombardia: Fellows Award for Young Excellence

Publications and Abstract

Publications:

- **Bottagisio, M.**, A.B. Lovati, S. Lopa, and M. Moretti. 2015. Osteogenic Differentiation of Human and Ovine Bone Marrow Stromal Cells in response to β -Glycerophosphate and Monosodium Phosphate. *Cellular Reprogramming* 17(4):235-242.
- Lovati, A.B., C.L. Romanò, **M. Bottagisio**, L. Monti, E. De Vecchi, S. Previdi, R. Accetta and L. Drago. 2016. Modeling Staphylococcus epidermidis-Induced Non-Unions: Subclinical and Clinical Evidence in Rats. *PLoS One* 21;11(1):e0147447.
- Lovati, A.B.[§], **M. Bottagisio**[§] and M. Moretti. 2016. Decellularized and Engineered Tendons as Biological Substitutes: A Critical Review. *Stem Cells International* 2016:7276150.
- Lovati, A.B, S. Lopa, C. Recordati, G. Talò, C. Turrisi, **M. Bottagisio**, M. Losa, E. Scanziani and M. Moretti. 2016. In Vivo Bone Formation Within Engineered Hydroxyapatite Scaffolds in a Sheep Model. *Calcified Tissue International* 99(2):209-223.
- **Bottagisio, M.**, A.F. Pellegata, F. Boschetti, M. Ferroni, M. Moretti and A.B. Lovati. 2016. A new strategy for the decellularisation of large equine tendons as biocompatible tendon substitutes. *European Cells & Materials* 8;32:58-73.
- Lovati, A.B., L. Drago, **M. Bottagisio**, M. Bongio, M. Ferrario, S. Perego, V. Sansoni, E. De Vecchi and C.L. Romanò. 2016. Systemic and Local Administration of Antimicrobial and Cell Therapies to Prevent Methicillin-Resistant Staphylococcus epidermidis-Induced Femoral Nonunions in a Rat Model. *Mediators of Inflammation* 2016:9595706.
- De Vecchi, E., **M. Bottagisio**, M. Bortolin, M. Toscano, A.B Lovati and L. Drago. 2016. Improving the Bacterial Recovery by Using Dithiothreitol with Aerobic and Anaerobic Broth in Biofilm-Related Prosthetic and Joint Infections. *Advances in Experimental Medicine and Biology*. DOI 10.1007/5584_2016_51.
- Perucca Orfei, C., A B. Lovati, M. Viganò, D. Stanco, **M. Bottagisio**, A. Di Giancamillo, S. Setti, and L. de Girolamo. 2016. Dose-related and Time-dependent Development of Collagenase-induced Tendinopathy. *PLoS One* 22;11(8):e0161590.
- Lovati, A. B.[§], **M. Bottagisio**[§], E. de Vecchi, E. Gallazzi and L. Drago. 2016. Animal models of implant-related low-grade infections. A twenty-year review. *Advances in Experimental Medicine and Biology*. DOI 10.1007/5584_2016_157.
- Pellegata, A. F.[§], **M. Bottagisio**[§], F. Boschetti, M. Ferroni, M. Bortolin, L. Drago and A.B. Lovati. 2017. Terminal sterilization of equine-derived decellularized tendons for clinical use. *Materials Science & Engineering C*. doi.org/10.1016/j.msec.2017.02.009.
- **Bottagisio, M.** and A.B. Lovati. 2017. A review on animal models and treatments for the reconstruction of Achilles and flexor tendons. *J Mater Sci Mater Med*. Mar;28(3):45.
- **Bottagisio, M.**[§], S. Lopa[§], V. Granata, G. Talò, C. Bazzocchi and A. B. Lovati. 2016. Different combinations of growth factors for the tenogenic differentiation of bone marrow mesenchymal stem cells in monolayer culture and in fibrin-based three-dimensional constructs. *Differentiation*. 95:44-53. doi: 10.1016/j.diff.2017.03.001.
- **Bottagisio, M.**, A. Soggiu, A.B. Lovati, M. Toscano, C. Piras, C.L. Romanò, L. Bonizzi, P. Roncada and L. Drago. 2017. Draft Genome Sequence of Staphylococcus epidermidis Clinical Strain GO1153754-03-14 Isolated from an Infected Knee Prosthesis. *Genome Announc*. 18;5(20). pii: e00378-17. doi: 10.1128/genomeA.00378-17.
- Berzero, G.F., A. Pozzi[§], **M. Bottagisio**[§] and A.B. Lovati. 2016. Pyrocarbon Adaptive Proximal Scaphoid Implant (APSI) in treatment of scaphoid nonunion: an over ten-year retrospective study. *Journal of Hand Surgery AM* [Under Review].

§ equally contributed

Abstracts:

- **Bottagisio, M.**, L. Drago, C. L. Romanò and A. B. Lovati. 2015. Animal models of dose-related methicillin-resistant *Staphylococcus epidermidis* infected non-union after osteosynthesis. European Cells & Materials 30(2):44.eCM XVI Conference: Bone and Implant Infection, 24-26 June 2015, Davos, Switzerland. Poster presentation.
- Cozzi, M.C., **M. Bottagisio**, E. Frigo, M. G. Strillacci, F. Schiavini, R.T. Prinsen and A. Bagnato. 2015. Molecular Tests for Horse Coat Color Determination. ASPA Animal Production for Feeding the Planet, 9-12 June 2015, Milan, Italy. Poster presentation.
- **Bottagisio, M.**, L. Drago, C. L. Romanò, L. Bonizzi and A. B. Lovati. 2016. Animal models of dose-related methicillin-resistant *Staphylococcus epidermidis* infected non-union after osteosynthesis. Veterinary and Animal Science (VAS) Days 2016, 15-17 July 2015, Milan, Italy. Oral presentation.
- **Bottagisio, M.**, L. Drago, C. L. Romanò, L. Bonizzi and A. B. Lovati. 2016. Evaluation of Antibiotic and Cell-based Therapy in Preventing *S. epidermidis*-induced Nonunion in Rats. oral presentation. International Journal of Health, Animal Science and Food Safety DOI: <http://dx.doi.org/10.13130/2283-3927/7061>. Veterinary and Animal Science (VAS) Days 2016, 8-10 June 2016, Milan, Italy. Oral presentation.
- **Bottagisio, M.**, A. F. Pellegata, F. Boschetti, M. Moretti and A. B. Lovati. 2016. Tissue Engineering Approaches to Optimize the Decellularization of Equine Tendons as Biological Grafts for the Replacement of Damaged Tissues. European Cells & Materials 31(1): 76. TERMIS-EU 2016, 28 June – 1 July 2016, Uppsala, Sweden. Poster presentation.
- Lovati, A.B., L. Drago, **M. Bottagisio**, M. Bongio, S. Perego, V. Sansoni, E. De Vecchi and C. L. Romanò. Antibiotic and Cell-based Therapy to Prevent the Development of Methicillin-resistant *Staphylococcus epidermidis*- induced Nonunion in Rats, poster presentation. EBJIS 2016, 1-3 September 2016, Oxford, United Kingdom. Poster presentation.
- Ferroni, M., A. F. Pellegata, **M. Bottagisio**, M. Moretti, A. B. Lovati and F. Boschetti. 2016. Tendon tissue engineering: decellularization protocol for equine-derived tendon matrix. ESB-ITA 2016, 8-9 September 2016, Palermo, Italy. Poster presentation.
- **Bottagisio, M.**, A. Soggiu, A.B. Lovati, M. Toscano, C. Piras, C.L. Romanò, L. Bonizzi, P. Roncada and L. Drago. Phenotypic and genomic identification of *Staphylococcus epidermidis* GOI1153754-03-14 isolated from an infected orthopedic prosthesis. International Journal of Health, Animal Science and Food Safety. Veterinary and Animal Science (VAS) Days 2017, 6-8 June 2017, Milan, Italy.
- Perucca Orfe, C., A. B. Lovati, M. Viganò, **M. Bottagisio**, S. Setti, A. Di Giancamillo and L. de Girolamo. Utilizzo di campi elettromagnetici pulsati (PEMF) per il trattamento della tendinopatia achillea: studio sperimentale in modello animale. SIOT 2017, 20-23 October 2017, Palermo, Italy. Oral presentation.

Disclosure In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.

