



ALLA MAGNIFICA RETTRICE  
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID: 7017

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il Dipartimento di Medicina Veterinaria e Scienze Animali

Responsabile scientifico: Prof. Alberto Maria Luciano

[Fernanda Fagali Franchi]

## CURRICULUM VITAE

### INFORMAZIONI PERSONALI

Cognome	Fagali Franchi
Nome	Fernanda

### OCCUPAZIONE ATTUALE

Incarico	Struttura
Assegnista di Ricerca	Dipartimento di Medicina Veterinaria e Scienze Animali dell'Università degli Studi di Milano

### ISTRUZIONE E FORMAZIONE (attachment 1)

Titolo	Corso di studi	Università	anno conseguimento titolo
Laurea Magistrale o equivalente	Pharmacology and Biotechnology	São Paulo State University (UNESP)	2016 (attachment 1.1)
Specializzazione			
Dottorato Di Ricerca	Pharmacology and Biotechnology	São Paulo State University (UNESP)	2020 (attachment 1.2)
Master			
Diploma Di Specializzazione Medica			
Diploma Di Specializzazione Europea			
Altro			

### ISCRIZIONE AD ORDINI PROFESSIONALI

Data iscrizione	Ordine	Città



UNIVERSITÀ DEGLI STUDI DI MILANO



## LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
English	B2
Italiano	B2

## PREMI, RICONOSCIMENTI E BORSE DI STUDIO (attachments 2)

anno	Descrizione premio
2012-2013	Internship Scholarship - São Paulo Research Foundation (FAPESP), São Paulo State University (UNESP), Botucatu - Brazil (attachment 2.1)
2014-2016	Master Scholarship - Coordination of Superior Level Staff Improvement (CAPES), São Paulo State University (UNESP), Botucatu - Brazil (attachment 2.2)
2017-2020	PhD Scholarship - Coordination of Superior Level Staff Improvement (CAPES), São Paulo State University (UNESP), Botucatu - Brazil (attachment 2.3)
2017	Award, 3 <sup>rd</sup> place in XIX Pharmaceutical Congress of São Paulo and XI international seminar on pharmaceutical sciences for the presentation of the study entitled "Toxic effect of A-L-Fucosidase added during in vitro fertilization of bovine embryos" in XIX Pharmaceutical Congress of São Paulo, São Paulo - Brazil (attachment 2.4)
2021-2022	Post-doctoral fellowship - PROGETTI DI RICERCA DI RILEVANTE INTERESSE NAZIONALE - Bando 2017 (Prot. 20172N2WL3), University of Milan, Milan - Italy (attachment 2.5)
2022	Award, A distinction in the competition for best oral presentation of the study entitled "Extracellular vesicles from superstimulated cows carry differential molecular signatures and drives gene expression of oocytes and blastocysts", IX International Symposium on Animal Biology of Reproduction (ISABR), Bento Gonçalves - Brazil. (attachment 2.6)
2024	3 <sup>rd</sup> place in the post-doctoral student's competition at the 57 <sup>th</sup> Society for the Study of Reproduction (SSR) Annual Meeting, Dublin - Ireland for the work: "Differential Transcript Usage in Bovine Blastocysts Exposed to Varying Concentrations of Energy Substrates". <b>Fernanda Fagali Franchi</b> , Giulia Musmeci, Pritha Dey, Valentina Lodde, Alberto Maria Luciano, Francesca Mossa, Federica Franciosi (attachment 2.7)
2024	USDA-NIFA-AFRI Merit Award at the 57 <sup>th</sup> Society for the Study of Reproduction (SSR) Annual Meeting, Dublin - Ireland for the work: "Differential Transcript Usage in Bovine Blastocysts Exposed to Varying Concentrations of Energy Substrates". <b>Fernanda Fagali Franchi</b> , Giulia Musmeci, Pritha Dey, Valentina Lodde, Alberto Maria Luciano, Francesca Mossa, Federica Franciosi (attachment 2.8)
2024	USDA-NIFA-AFRI Merit Award at the 57 <sup>th</sup> Society for the Study of Reproduction (SSR) Annual Meeting, Dublin - Ireland for the work: "Developmental Patterns and Gene Expression of Bovine Blastocysts Exposed to Imbalanced Energetic Levels". Giulia Musmeci, <b>Fernanda Fagali Franchi</b> , Pritha Dey, Valentina Lodde, Alberto Maria Luciano, Francesca Mossa, Federica Franciosi (attachment 2.9)
2023-2025	Post-doctoral fellowship - PROGETTI DI RICERCA DI RILEVANTE INTERESSE NAZIONALE PRIN 2020, No. 20209L8BN4 (InfinitEGG), University of Milan, Milan - Italy (attachment 2.10)

## ATTIVITÀ DI FORMAZIONE O DI RICERCA (attachment 3)

- Bachelor degree in Biological Sciences by São Paulo State University (UNESP), from Feb 09<sup>th</sup> 2009 to Aug 20<sup>th</sup> 2014 (attachment 3.1)



- Course: “RNA Seq Data Analysis”; held by The Babraham Institute on May 10<sup>th</sup>, 2023; (attachment 3.2)
- Course: “Cryobiology for conservation and therapy”; held by Professor Amir Arav on 16<sup>th</sup>, 19<sup>th</sup> and 23<sup>rd</sup>, 2023; (attachment 3.3)
- Training course: “Fundamentals in real-time quantitative PCR (qPCR): a theoretical and practical approach on the QuantStudio 7<sup>TM</sup> Flex system platform”; held by Thermofisher Scientific on October 18<sup>th</sup> and 19<sup>th</sup>, 2016; (attachment 3.4)

**Research skills:**

- Media preparation and cell culture maintenance;
- Gametes manipulation: follicular aspiration, oocyte selection and classification, semen preparation;
- Bovine in vitro production of embryos: in vitro fertilization (unsorted and X-sorted semen), zygote denudation, embryo culture, morphological classification;
- Embryo cryopreservation;
- Exosomes recovery and identification: Ultracentrifugation, electron microscopy;
- Fluorescence microscopy: nuclear maturation, DNA fragmentation, reactive oxygen species, and mitochondrial analysis;
- Molecular Biology: nucleic acid extraction, quantification, and electrophoresis, cDNA synthesis, PCR and qPCR;
- Data analysis and presentation
- Bioinformatics, beginner level
- Proficient user of Ms. Office
- Independent user of JMP® and Prism (statistical program)
- Independent user of Leica Application Suite (LAS Imaging software);
- Management of trainees and students in the laboratory;
- Laboratory management, from sample handling to waste management;
- Laboratory equipment maintenance

**ATTIVITÀ PROGETTUALE (attachment 4)**

Anno	Progetto
2011-2013	TITLE: The FGF2, FGF10 and BMP-15 effects on nuclear maturation of bovine oocytes during in vitro maturation FUNDING AGENCY: São Paulo Research Foundation (FAPESP) PI: Prof. Jose Buratini Junior; São Paulo State University (UNESP) ROLE: Researcher, bachelor internship (attachment 4.1)
2014-2016	TITLE: Ovarian superstimulation effects on oocyte and embryonic competence in cattle: possible participation of exosomes from follicular fluid FUNDING AGENCY: Coordination of Superior Level Staff Improvement (CAPES) PI: Prof. Anthony César de Souza Castilho; São Paulo State University (UNESP) ROLE: Master researcher (attachment 4.2)



2016-2020	<p><b>TITLE:</b> Effects of IGF-1 and PAPP-A on lipid metabolism and oxidative stress of bovine oocytes and embryos</p> <p><b>FUNDING AGENCY:</b> Coordination of Superior Level Staff Improvement (CAPES)</p> <p><b>PI:</b> Prof. Anthony César de Souza Castilho; São Paulo State University (UNESP)</p> <p><b>ROLE:</b> PhD researcher (attachment 4.3)</p>
2021-2023	<p><b>TITLE:</b> Developmental Origins of Health and Disease - Does health start in the womb? Impact of maternal nutrient restriction or excess on ovarian, cardiovascular and gastro-intestinal function in cattle female progeny</p> <p><b>FUNDING AGENCY:</b> Ministero Istruzione Università Ricerca MIUR, Programma di ricerca di Interesse Nazionale, PRIN 2017, linea b</p> <p><b>PI:</b> Prof. Federica Franciosi; University of Milan</p> <p><b>ROLE:</b> post-doctoral researcher (attachment 4.4)</p>
2023- currently	<p><b>TITLE:</b> New perspectives for the exploitation of female reproductive potential in mammals: from the recovery of the untapped natural ovarian reserve to the generation of oocytes and granulosa cells from mesenchymal stem cells (InfiniTEGG)</p> <p><b>FUNDING AGENCY:</b> Ministero Istruzione Università Ricerca MIUR, Programma di ricerca di Interesse Nazionale, PRIN 2020</p> <p><b>PI:</b> Alberto Maria Luciano</p> <p><b>ROLE:</b> post-doctoral researcher (attachment 4.5)</p>
2024- currently	<p><b>TITLE:</b> Testing of a newly developed and proprietary sperm capacitation system for the In vitro production of bovine embryos</p> <p>Research activity within the research contract between Department of Veterinary Medicine and Animal Science, Università degli Studi di Milano, and the company Fecundis Lab SL, Sant Cugat del Valles, Spain.</p> <p><b>RESPONSIBLE FOR THE CONTRACT:</b> Prof. Valentina Lodde</p> <p><b>ROLE:</b> member of the research team (attachment 4.6)</p>
2024- currently	<p><b>TITLE:</b> Servizio di produzione in vitro di embrioni bovini per lo studio degli effetti della spettrometria di risonanza magnetica</p> <p>Embryology laboratory activities for the service contract between the company Annaida technologies SA con sede legale in Svizzera, EPFL Innovation Park Building C, 1015. Lausanne and Department of Veterinary Medicine and Animal Science, Università degli Studi di Milano</p> <p><b>MAIN RESPONSIBLE:</b> Prof. Valentina Lodde</p> <p><b>ROLE:</b> embryology lab staff (attachment 4.7)</p>

## TITOLARITÀ DI BREVETTI

<b>Brevetto</b>



## CONGRESSI, CONVEGNI E SEMINARI (attachment 5)

Data	Titolo	Sede
Jul, 15-19, 2024	57 <sup>th</sup> Society for the Study of Reproduction (SSR) Annual Meeting and DADE Workshop. <b>Poster and oral presentation:</b> Differential Transcript Usage in Bovine Blastocysts Exposed to Varying Concentrations of Energy Substrates (attachment 5.1)	Dublin - Ireland
Jun, 26-30, 2022	19 <sup>th</sup> International Congress on Animal Reproduction. <b>Poster presentation:</b> Development of an in vitro model to study the exposure to nutrient imbalance in female blastocysts (attachment 5.2)	Bologna, Italy
Apr, 18-21, 2022	EMBO Workshop - Awakening of the genome: The maternal-to-zygotic transition. <b>Attendee</b> (attachment 5.3)	Vienna (online)
Mar, 12, 2022	3 <sup>rd</sup> INTERNATIONAL WORKSHOP within APM NAWA project ScienceNet: Assisted reproduction: Comparative aspects between Large and Small Animals. <b>Attendee</b> (attachment 5.4)	Italy (online)
Mar, 9-11, 2022	The 4 <sup>th</sup> International EBART Congress. <b>Attendee</b> (attachment 5.5)	Barcelona, Spain (online)
Nov, 6, 2021	2 <sup>nd</sup> INTERNATIONAL WORKSHOP within APM NAWA project ScienceNet: CRYOBANKING a life insurance for biodiversity. <b>Attendee</b> (attachment 5.6)	Italy (online)
Oct, 12-13, 2021	1 <sup>st</sup> international congress on Domestic Animal DOHAD and epigenetics (DADE). <b>Attendee</b> (attachment 5.7)	Quebec, Canada (online)
Feb, 18-19, 2021	The 3 <sup>rd</sup> International EBART Congress. <b>Attendee</b> (attachment 5.8)	Barcelona, Spain (online)
May 14 and 16, 2019	General notions of assisted human reproduction biotechnologies. <b>Workshop conductor</b> (attachment 5.9)	Bauru, São Paulo, Brazil
May 7 and 14, 2018	Biotechnics applied to human reproduction assisted. <b>Workshop conductor</b> (attachment 5.10)	Bauru, São Paulo, Brazil
May 10, 2018	1 <sup>o</sup> Workshop Pharmabiotch: In vitro embryo production. <b>Attendee</b> (attachment 5.11)	Botucatu, São Paulo, Brazil
September 16-20, 2018	10 <sup>th</sup> International Ruminant Reproduction Symposium (IRRS). <b>Poster presentation and STAFF:</b> Equine chorionic gonadotropin (eCG) impacts the transcriptional profile of genes involved with competence of cumulus-oocyte complexes and embryo quality in superstimulated Nelore cows. (attachment 5.12)	Foz do Iguaçu, Paraná, Brazil
April 10-11, 2017	How to do a blastocyst? <b>Speaker:</b> Extracellular vesicles of follicular fluid from superstimulated cows and its effects on in vitro embryo production (attachment 5.13)	Botucatu, São Paulo, Brazil



April 27, 2018	We need to talk about gender and sexuality. <b>Speaker:</b> The “biological” sex (attachment 5.14)	Bauru, São Paulo, Brazil
May 15 and 22, 2017	Human Reproduction Assisted. <b>Workshop conductor</b> (attachment 5.15)	Bauru, São Paulo, Brazil
August 17-19, 2017	XXXI Brazilian society of embryo technology (SBTE). <b>Poster presentation:</b> Pregnancy-associated plasma protein-A (PAPP-A) added during in vitro maturation: effects on meiosis progression, oocyte DNA fragmentation and gene expression in bovine cumulus-oocyte complexes. (attachment 5.16)	Cabo de Santo Agostinho, Pernambuco, Brazil
August 29, 2017	Introduction to the in vitro embryo production technique. <b>Workshop conductor</b> (attachment 5.17)	Bauru, São Paulo, Brazil
October 6, 2017	Graduation lesson. <b>Lecture:</b> Oogenesis and oocyte maturation. (attachment 5.18)	Presidente Prudente, São Paulo, Brazil
August 25-27, 2016	XXX Brazilian society of embryo technology (SBTE): <b>Poster presentation:</b> Exossomos do fluido folicular de vacas Nelore modulam a expressão gênica em células do cumulus e blastocistos bovinos (attachment 5.19)	Foz do Iguaçu, Paraná, Brazil
August 20-23, 2015	XXX Brazilian society of embryo technology (SBTE): <b>Poster presentation:</b> Efeitos moleculares e celulares de exossomos do fluido folicular de vacas Nelore submetidas à superestimulação ovariana (attachment 5.20)	Gramado, Rio Grande do Sul, Brazil

## PUBBLICAZIONI (attachment 6)

La produzione scientifica è composta da: 17 articoli in riviste internazionali peer-reviewed, 2 capitoli in volumi e 43 contributi a congressi nazionali e internazionali, per un complessivo numero di citazioni 141 e H-index 7 (fonte scopus, dati aggiornati al 30/12/2024)

<b>Libri</b> (attachment 6.1)
Reversible histone acetylation during preimplantation embryo development in mammals. Giulia Musmeci, <b>Fernanda Fagali Franchi</b> , Francesca Mossa, Alberto Maria Luciano, Valentina Lodde, Federica Franciosi. Submitted to: Springer Nature; book series: Results and Problems in Cell Differentiation; volume: Reversible Acetylation in Development, Aging, and Diseases. (attachment 6.1_1)
Renin-Angiotensin System On Reproductive Biology. In: Renin-Angiotensin System - Past, Present and Future. Castilho, Anthony C.S.; Fontes, Patricia K.; <b>Franchi, Fernanda F.</b> ; Santos, Priscila H. ; Razza, Eduardo M. 1ed.: InTech, 2017, p. 71-81. doi: 10.5772/66997 (attachment 6.1_2)
<b>Articoli su riviste</b> (attachment 6.2)
<b>Fagali Franchi, F.</b> ; Dos Santos, P.H.; Kubo Fontes, P.; Valencise Quaglio, A.E.; Gomes Nunes, S.; Zocal Mingoti, G.; de Souza Castilho, A.C. PAPP-A enhances the antioxidative effects of IGF-1 during bovine in vitro embryo production. Theriogenology 2024, 229, 191-201, doi:10.1016/j.theriogenology.2024.07.016. (attachment 6.2_1)





Manssur, T.S.B.; Sebastiao, T.R.C.; <b>Franchi, F.F.</b> ; Dos Santos, P.H.; Razza, E.M.; Nunes, S.G.; Castilho, A.C.S.; Fontes, P.K. Pre-fertilization approach using alpha-l-fucosidase modulates zona pellucida hardening during bovine in vitro embryo production. <i>Vet Res Commun</i> <b>2024</b> , 48, 1135-1147, doi:10.1007/s11259-023-10291-y. (attachment 6.2_2)
Santos, P.H.; <b>Franchi, F.F.</b> ; Nunes, S.G.; Fontes, P.K.; Giroto, A.B.; Mani, F.; Castilho, A.C.S. Is FSH combined with equine chorionic gonadotropin able to modify lipid metabolism in bovine superstimulated antral follicles? <i>Anim Reprod</i> <b>2024</b> , 21, e20230063, doi:10.1590/1984-3143-AR2023-0063. (attachment 6.2_3)
Dellaqua, T.T. <sup>#</sup> ; <b>Franchi, F.F.<sup>#</sup></b> ; dos Santos, P.H.; Giroto, A.B.; Nunes, S.G.; de Lima, V.A.V.; Guilherme, V.B.; Fontes, P.K.; Sudano, M.J.; de Souza Castilho, A.C. Molecular phenotypes of bovine blastocyst derived from in vitro-matured oocyte supplemented with PAPP-A. <i>Veterinary Research Communications</i> <b>2023</b> , doi:10.1007/s11259-023-10072-7. (attachment 6.2_4)
Luciano, A.M.; Franciosi, F.; Dey, P.; Ladron De Guevara, M.; Monferini, N.; Bonumallu, S.K.N.; Musmeci, G.; <b>Fagali Franchi, F.</b> ; Garcia Barros, R.; Colombo, M.; et al. Progress toward species-tailored prematuration approaches in carnivores. <i>Theriogenology</i> <b>2023</b> , 196, 202-213, doi:10.1016/j.theriogenology.2022.11.016. (attachment 6.2_5)
Pioltine, E.M.; Costa, C.B.; <b>Franchi, F.F.</b> ; Dos Santos, P.H.; Nogueira, M.F.G. Tauroursodeoxycholic Acid Supplementation in In Vitro Culture of Indicine Bovine Embryos: Molecular and Cellular Effects on the In Vitro Cryotolerance. <i>Int J Mol Sci</i> <b>2023</b> , 24, doi:10.3390/ijms241814060. (attachment 6.2_6)
Santos, P.H.; Nunes, S.G.; <b>Franchi, F.F.</b> ; Giroto, A.B.; Fontes, P.K.; Pinheiro, V.G.; Castilho, A.C.S. Expression of bta-miR-222 and LHCGR in bovine cultured granulosa cells: Impact of follicle deviation and regulation by FSH/insulin in vitro. <i>Theriogenology</i> <b>2022</b> , 182, 71-77, doi:10.1016/j.theriogenology.2022.01.034. (attachment 6.2_7)
Pioltine, E.M.; Costa, C.B.; Barbosa Latorraca, L.; <b>Franchi, F.F.</b> ; Dos Santos, P.H.; Mingoti, G.Z.; de Paula-Lopes, F.F.; Nogueira, M.F.G. Treatment of in vitro-Matured Bovine Oocytes With Tauroursodeoxycholic Acid Modulates the Oxidative Stress Signaling Pathway. <i>Front Cell Dev Biol</i> <b>2021</b> , 9, 623852, doi:10.3389/fcell.2021.623852. (attachment 6.2_8)
Trevisol, E.; Mogollon Garcia, H.D.; Ackermann, C.L.; Lacerda, W.; Pires, R.M.L.; Laufer-Amorin, R.; Carvalho, R.F.; <b>Franchi, F.F.</b> ; Castilho, A.C.S.; Rizzoto, G.; et al. Partial luteolysis during early diestrus in cattle downregulates VEGFA expression and reduces large luteal cell and corpus luteum sizes and plasma progesterone concentration. <i>Theriogenology</i> <b>2020</b> , 158, 188-195, doi:10.1016/j.theriogenology.2020.09.015. (attachment 6.2_9)
<b>Franchi, F.F.</b> ; Hernandes, M.P.; Coalho Ferreira, A.L.; Vieira de Lima, V.A.; de Oliveira Mendes, L.; Musa de Aquino, A.; Scarano, W.R.; Cesar de Souza Castilho, A. Fractal analysis and histomolecular phenotyping provides insights into extracellular matrix remodeling in the developing bovine fetal ovary. <i>Biochem Biophys Res Commun</i> <b>2020</b> , 523, 823-828, doi:10.1016/j.bbrc.2020.01.025. (attachment 6.2_10)
<b>Franchi, F.F.</b> ; Satrapa, R.A.; Fontes, P.K.; Santos, P.H.; Razza, E.M.; Emanuelli, I.P.; Ereno, R.L.; Mareco, E.A.; Nogueira, M.F.G.; Barros, C.M.; et al. Equine chorionic gonadotropin drives the transcriptional profile of immature cumulus-oocyte complexes and in vitro-produced blastocysts of superstimulated Nelore cows. <i>Mol Reprod Dev</i> <b>2019</b> , 86, 1639-1651, doi:10.1002/mrd.23251. (attachment 6.2_11)
Giroto, A.B.; Fontes, P.K.; <b>Franchi, F.F.</b> ; Dos Santos, P.H.; Razza, E.M.; Nogueira, M.F.G.; Maioli, M.A.; Nogueira, G.P.; Nunes, G.B.; Mingoti, G.Z.; et al. Use of pregnancy-associated plasma protein-A during oocyte in vitro maturation increases IGF-1 and affects the transcriptional profile of cumulus cells and embryos from Nelore cows. <i>Mol Reprod Dev</i> <b>2019</b> , doi:10.1002/mrd.23259. (attachment 6.2_12)
Castilho, A.C.S.; Dalanezi, F.M.; <b>Franchi, F.F.</b> ; Price, C.A.; Ferreira, J.C.P.; Trevisol, E.; Buratini, J. Expression of fibroblast growth factor 22 (FGF22) and its receptor, FGFR1B, during development and regression of bovine corpus luteum. <i>Theriogenology</i> <b>2019</b> , 125, 1-5, doi:10.1016/j.theriogenology.2018.09.024. (attachment 6.2_13)
Morales Dalanezi, F.; Mogollon Garcia, H.D.; de Andrade Ferrazza, R.; <b>Fagali Franchi, F.</b> ; Kubo Fontes, P.; de Souza Castilho, A.C.; Gouveia Nogueira, M.F.; Dos Santos Schmidt, E.M.; Sartori, R.; Pinheiro Ferreira, J.C. Extracellular vesicles of follicular fluid from heat-stressed cows modify the gene expression of in vitro-matured oocytes. <i>Anim Reprod Sci</i> <b>2019</b> , 205, 94-104, doi:10.1016/j.anireprosci.2019.04.008. (attachment 6.2_14)





6.2_14)
Razza, E.M.; Sudano, M.J.; Fontes, P.K.; <b>Franchi, F.F.</b> ; Belaz, K.R.A.; Santos, P.H.; Castilho, A.C.S.; Rocha, D.F.O.; Eberlin, M.N.; Machado, M.F.; et al. Treatment with cyclic adenosine monophosphate modulators prior to in vitro maturation alters the lipid composition and transcript profile of bovine cumulus-oocyte complexes and blastocysts. <i>Reprod Fertil Dev</i> <b>2018</b> , 30, 1314-1328, doi:10.1071/RD17335. (attachment 6.2_15)
Santos, P.H.; Satrapa, R.A.; Fontes, P.K.; <b>Franchi, F.F.</b> ; Razza, E.M.; Mani, F.; Nogueira, M.F.G.; Barros, C.M.; Castilho, A.C.S. Effect of superstimulation on the expression of microRNAs and genes involved in steroidogenesis and ovulation in Nelore cows. <i>Theriogenology</i> <b>2018</b> , 110, 192-200, doi:10.1016/j.theriogenology.2017.12.045. (attachment 6.2_16)
Santos, P.H.; Fontes, P.K.; <b>Franchi, F.F.</b> ; Nogueira, M.F.; Belaz, K.R.; Tata, A.; Eberlin, M.N.; Sudano, M.J.; Barros, C.M.; Castilho, A.C. Lipid profiles of follicular fluid from cows submitted to ovarian superstimulation. <i>Theriogenology</i> <b>2017</b> , 94, 64-70, doi:10.1016/j.theriogenology.2017.02.002. (attachment 6.2_17)

<b>Atti di convegni</b>
Resilience of preimplantation bovine embryos to the availability of energy substrates. FEDERICA FRANCIOSI, GIULIA MUSMECI, PRITHA DEY, VALENTINA LODDE, ALBERTO MARIA LUCIANO, FRANCESCA MOSSA, <b>FERNANDA FAGALI FRANCHI</b> . In: 40 <sup>th</sup> Association of Embryo Technology in Europe (AETE) Annual Meeting, 2024, Brescia, Italy.
Differential Transcript Usage in Bovine Blastocysts Exposed to Varying Concentrations of Energy Substrates. <b>FERNANDA FAGALI FRANCHI</b> , GIULIA MUSMECI, PRITHA DEY, VALENTINA LODDE, ALBERTO MARIA LUCIANO, FRANCESCA MOSSA, FEDERICA FRANCIOSI. In: proceedings 57 <sup>th</sup> of Study of Reproduction (SSR) Annual Meeting, 2024, Dublin - Ireland.
Developmental Patterns and Gene Expression of Bovine Blastocysts Exposed to Imbalanced Energetic Levels. GIULIA MUSMECI, <b>FERNANDA FAGALI FRANCHI</b> , PRITHA DEY, VALENTINA LODDE, ALBERTO MARIA LUCIANO, FRANCESCA MOSSA, FEDERICA FRANCIOSI. In: proceedings 57 <sup>th</sup> of Study of Reproduction (SSR) Annual Meeting, 2024, Dublin - Ireland.
Zinc Supplementation Influences 8-cell Stage Global Transcriptional Activity and Improves Preimplantation Embryo Development in Cattle. VALENTINA LODDE, RODRIGO GARCIA BARROS, <b>FERNANDA FAGALI FRANCHI</b> , FEDERICA FRANCIOSI, ALBERTO MARIA LUCIANO. In: proceedings 57 <sup>th</sup> of Study of Reproduction (SSR) Annual Meeting, 2024, Dublin - Ireland.
Rescue of Preantral Follicles from Ovaries of Endangered Cattle Breeds Undergoing Genetic Salvage. LUDOVICA DONADINI, NOEMI MONFERINI, PRITHA DEY, <b>FERNANDA FAGALI FRANCHI</b> , ISA MOHAMMED ALKALI, MARTINA COLOMBO, FEDERICA FRANCIOSI, VALENTINA LODDE, ALBERTO MARIA LUCIANO. In: proceedings 57 <sup>th</sup> of Study of Reproduction (SSR) Annual Meeting, 2024, Dublin - Ireland.
The effect of prematuration culture using C-type natriuretic peptide and extracellular vesicles recovered from follicles at different stages of development on oocyte chromatin compaction and embryonic development in bovine species. G. M. MINGOTI, G. B. NUNES, C. R. SILVA, J. C. P. FERREIRA, R. A. FERRAZZA, <b>F. F. FRANCHI</b> , N. M. BASTOS, P. M. S. ROSA AND J. C. SILVEIRA. In the 50 Annual Conference of the International Embryo Technology Society (IETS), 2024, Denver, USA.
Development of an in vitro model to study the exposure to nutrient imbalance in female blastocysts. <b>F. FAGALI FRANCHI</b> , R. GARCIA BARROS, G. MUSMECI, A.M. LUCIANO, F. FRANCIOSI. In: 19 <sup>th</sup> International Congress on Animal Reproduction (ICAR), 2022, Bologna, Italy.
Extracellular vesicles from superstimulated cows carry differential molecular signatures and drives gene expression of oocytes and blastocysts. <b>FERNANDA FAGALI FRANCHI</b> , PRISCILA HELENA DOS SANTOS, SARAH GOMES NUNES, PATRICIA KUBO FONTES, JULIANO COELHO DA SILVEIRA, MARCELO FÁBIO GOUVEIA NOGUEIRA, ANTHONY CÉSAR DE SOUZA CASTILHO. IX International Symposium on Animal Biology of Reproduction (ISABR), 2022, Bento Gonçalves - RS, Brazil.
Impairment on development and gene expression of bovine embryos derived from oocytes exposed to



genistein. ALAN BRUNHOLI GIROTO, <b>FERNANDA FAGALI FRANCHI</b> , SARAH GOMES NUNES, BARBARA GOMES RODRIGUES NOGUEIRA BISCOLA, ANTHONY CÉSAR DE SOUZA CASTILHO. In: 35 Annual Meeting of the Brazilian Embryo Technology Society (SBTE), 2022, Foz do Iguaçu - PR, Brazil. Anim Reprod, vol.19, e22134.
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Effect of Heat Shock Protein A5 (HSPA5) on maturation oocyte during bovine in vitro embryo production. Sarah Gomes Nunes, Priscila Helena dos Santos, <b>Fernanda Fagali Franchi</b> , Patricia Kubo Fontes, Anthony César de Souza Castilho. In: XXIV Congresso Brasileiro de Reprodução Animal and VIII International Symposium on Animal Biology of Reproduction, 2021. Thematic section: VIII International Symposium on Animal Biology of Reproduction (ISABR 2020/2021), Anim Reprod, vol.19, n1, p.0, 2022.
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## ALTRE INFORMAZIONI (attachment 7)

### Referee

- Springer Nature; nov 2024 - currently (attachment 7.1)
- Frontiers Cell and Developmental Biology. Published on 15 February 2022 (doi: 10.3389/fcell.2022.762228) (attachment 7.2)

### Examination board member

- Scientific 11° Prize of University of Western São Paulo in Biological and Health Science field in National Meeting of Teaching, Research and Extension. Universidade do Oeste Paulista (UNOESTE); October 2022, Presidente Prudente, SP - Brazil (online); (attachment 7.3)
- Qualification exam; Title: Impact of ovarian superstimulation on the stereology and remodeling of the bovine oviduct extracellular matrix. Universidade do Oeste Paulista (UNOESTE); May 2022, Presidente Prudente, SP - Brazil (online); (attachment 7.4)
- X Symposium of Pharmacology and Biotechnology. September 2022, São Paulo State University (UNESP), Botucatu, SP - Brazil (online) (attachment 7.5)
- Undergraduate thesis; Title: In vitro three-dimensional culture of bovine ovarian fragments in different systems: magnetic levitation associated with nanoparticles, alginate matrix and alginate-fibrin matrix. Instituto Sapientae ; April 2021, São Paulo, Brazil (online); (attachment 7.6)
- Undergraduate thesis; Title: Effects of PAPP-A addition on molecular and cellular aspects of the bovine oocyte's in vitro maturation. Universidade Paulista (UNIP); August 2017, Bauru, Brazil; (attachment 7.7)
- Undergraduate thesis; Title: Effects of PAPP-A addition on molecular and cellular aspects of the bovine oocyte's in vitro maturation. Universidade Paulista (UNIP); August 2017, Bauru, Brazil. (attachment 7.8)

### Moderator and co-chair activities

- Moderator and co-chair of the Focus Session 16 – Trophoblast, chaired by the Prof. Troy Ott - Penn State University at the 57th Society for the Study of Reproduction (SSR) Annual Meeting, 2024; Dublin - Irland. (attachment 7.9);
- Moderator and chair of the session: "Embryology and Reproduction" in the "VAS Days", a 3-day scientific meeting of the PhD Students of the Veterinary and Animal Science (VAS) PhD School of the University of Milan, Department of Veterinary Medicine and Animal Science, Università degli Studi di Milano. (attachment 7.10)

### Organization of scientific meetings

- Volunteer Staff member at at the 57th Society for the Study of Reproduction (SSR) Annual Meeting, 2024; Dublin - Irland (attachment 7.11)
- Organization of IX Symposium of Pharmacology and Biotechnology. March 2020, São Paulo State University



(UNESP), Botucatu, SP - Brazil (attachment 7.12)

- Organization of VIII Symposium of Pharmacology and Biotechnology. March 2019, Sao Paulo State University (UNESP), Botucatu, SP - Brazil. (attachment 7.13)

- Staff in: 10<sup>th</sup> International Ruminant Reproduction Symposium (IRRS). September 2018, Foz do iguaçu - PR - Brazil. (attachment 7.14)

- Organization of: 1<sup>st</sup> Workshop PHARMABIOTECH: "in vitro embryo production". May 2018, Sao Paulo State University (UNESP), Botucatu, SP - Brazil. (attachment 7.15)

- Organization of "VII Symposium of Pharmacology and Biotechnology". March 2018, Sao Paulo State University (UNESP), Botucatu, SP - Brazil. . (attachment 7.16)

- Staff in: XXXI Brazilian society of embryo technology (SBTE). August 2017, Cabo de Santo Agostinho, PE - Brazil. (attachment 7.17)

## Leadership and supervision Skills

- Student Council Representative of Post Graduation Program in Pharmacology and Biotechnology at the Sao Paulo University. May 2018 - Apr 2020. (attachment 7.18)

Main activities:

- Elected to represent the student body, contributing to decisions on university policy and initiatives;
- Advocated for student needs and concerns, including academic, social, and extracurricular issues;
- Worked with a team to organize events such as fundraisers, campaigns, and school celebrations.

- Supervision of 4 internship students

• Raquiel Bueno Rodrigues (2015), Bachelor in Biomedicine, Paulista University (UNIP), Bauru - Brazil

• Andressa Carvalho (2015), Bachelor in Biomedicine, Paulista University (UNIP), Bauru - Brazil

• Thaisy Tino Dellaqua (2017), Bachelor in Biotechnological Engineering, São Paulo State University (UNESP), Assis - Brazil

• Victor Augusto Vieira Lima (2018), Bachelor's in Veterinary Medicine, University of Western São Paulo (UNOESTE), Presidente Prudente - Brazil

- Supervision of 2 master students

• Priscila Helena dos Santos (2015-2016), Master in Pharmacology and Biotechnology, São Paulo State University (UNESP), Botucatu - Brazil

• Alan Brunholi Giroto (2016 - 2017), Master in Animal Science, University of Western São Paulo (UNOESTE), Presidente Prudente - Brazil

- Supervision of 2 PhD students

• Sarah Gomes Nunes (2019-2021) PhD student in Pharmacology and Biotechnology, São Paulo State University (UNESP), Botucatu - Brazil.

• Giulia Musmeci (2021-2024) PhD student at Department of Veterinary and Animal Science, University of Milan, Italy.

## Teaching activities

- Instructor of the teaching course: Elementi di tecnologie riproduttive per la salvaguardia della biodiversità nelle specie da compagnia, bachelor degree in Allevamento e benessere degli animali d'affezione (ABAA) - 16h of practical class. (attachment 7.19)





- Cultore della materia approved by the "Collegio Didattico in STPA" on June 20th 2023, Department of Veterinary Medicine and Animal Science, Università degli Studi di Milano, for the courses:

- Anatomia degli Animali d'Affezione - CdL ABAA
- Unità didattica di Biologia e Agroecologia del modulo di Genetica, Biologia Generale e Agroecologia del corso integrato di Chimica e Principi di Biologia - CdL SPA
- Unità didattica di Biologia Generale e Zoologia del modulo di Genetica, Biologia Generale e Zoologia del corso integrato di Chimica, Biologia e Genetica - CdL ABAA
- Elementi di Tecnologie Riproduttive per la Salvaguardia della Biodiversità nelle Specie da Compagnia
- CdL ABAA e SPA (opzionale)

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

**RICORDIAMO** che i curricula **SARANNO RESI PUBBLICI sul sito di Ateneo** e pertanto si prega di non inserire dati sensibili e personali. Il presente modello è già precostruito per soddisfare la necessità di pubblicazione senza dati sensibili.

Si prega pertanto di **NON FIRMARE** il presente modello.

Luogo e data: Lodi, 03/01/2025.