

Personal Information



Surnames/Name Andrade Amorim/Christiani
E-mail Christiani.Amorim@uclouvain.be
Nationality Brazilian/Belgian
Date of Birth 28/06/1971
Gender Female
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Education

Year 2006
Degree Ph.D. in Veterinary Medicine
University Federal University of Santa Maria
Location Santa Maria – RS – Brazil

Year 1998
Degree Master of Science, Production and Reproduction in Small Ruminants
University State University of Ceará
Location Fortaleza – CE – Brazil

Year 1995
Degree Bachelor of Science in Veterinary Medicine
University State University of Ceará
Location Fortaleza – CE – Brazil

Work Experience

Dates Since 2020
Position held Professor
Organization Catholic University of Louvain
Location Brussels – Belgium

Dates Since 2020
Position held Honorary FNRS Research associate
Organization Catholic University of Louvain
Location Brussels – Belgium

Dates Since 2018
Position held Chief Scientific Officer
Organization ProFaM
Location Birmingham – United Kingdom

Dates 2021 – 2024
Position held Adjunct Faculty
Organization Southern Illinois University
Location Carbondale – USA

Dates 2014 – 2020
Position held FNRS Research associate

Organization	Catholic University of Louvain
Location	Brussels – Belgium
Dates	2013 – 2014
Position held	Research associate
Organization	Catholic University of Louvain
Location	Brussels – Belgium
Dates	2010 – 2013
Position held	Research Assistant
Organization	Catholic University of Louvain
Location	Brussels – Belgium
Dates	2007 – 2010
Position held	Postdoctoral researcher
Organization	Catholic University of Louvain
Location	Brussels – Belgium
Dates	2005 – 2007
Position held	Postdoctoral researcher
Organization	University of Brasília
Location	Brasília – DF – Brazil
Dates	2000 – 2001
Position held	Researcher
Organization	Agronomy Faculty, Florence University
Location	Florence – Italy
Teaching	
Dates	Since 2023
Lecture	Système reproducteur (Partie 1)
Organization	Université Catholique de Louvain, Faculty of Medicine and Dentistry
Location	Brussels, Belgium
Dates	Since 2023
Lecture	Histologie des systèmes (Partie 2)
Organization	Université Catholique de Louvain, Faculty of Medicine and Dentistry
Location	Brussels, Belgium
Dates	Since 2023
Lecture	Introduction à la physiopathologie
Organization	Université Catholique de Louvain, Faculty of Pharmacy and Biomedicine Sciences
Location	Brussels, Belgium
Dates	Since 2023
Lecture	Special issues in molecular and cellular physiopathology
Organization	Université Catholique de Louvain, Faculty of Pharmacy and Biomedicine Sciences
Location	Brussels, Belgium
Dates	Since 2020
Lecture	Cellular and molecular pathophysiology of human diseases (Part 2)
Organization	Université Catholique de Louvain, Faculty of Pharmacy and Biomedicine Sciences
Location	Brussels, Belgium
Dates	Since 2019
Lecture	Biomatériaux et ingénierie tissulaire

Organization Location	Université Catholique de Louvain, Faculty of Pharmacy and Biomedicine Sciences Brussels, Belgium
Dates Lectures	2005 - 2007 Veterinary obstetrics; transmission and scanning electron microscopy; special topics in animal biology
Organization Location	University of Brasília Brasília - DF - Brazil
Commission of trust	
Dates Position held Organization	Since 2024 Member of the Conseil Equity, Diversity, Inclusion Université Catholique de Louvain
Dates Position held Organization	Since 2023 Member of the Commission de proximité de recherche expérimentale et clinique Université Catholique de Louvain
Dates Position held Organization	Since 2023 Past president Society of Low Temperature Biology
Dates Position held Organization	Since 2022 Director of the Research Pole in Physiopathology of Reproduction Université Catholique de Louvain
Dates Position held Organization	2022 - 2023 Member of the Ethics Commission for Animal Experimentation Université Catholique de Louvain
Dates Position held Organization	2020 - 2023 President Society of Low Temperature Biology
Dates Position held Organization	2019 - 2024 Basic Scientific Officer (Special Interest Group on Stem Cells) European Society of Human Reproduction and Embryology
Dates Position held Organization	2018 - 2020 Membership/Communication secretary Society of Low Temperature Biology
Event organization	CRYO2024 - 61 st Annual Meeting of the Society for Cryobiology. July 23-25, 2024. Washington, USA. Annual Meeting of the Society of Low Temperature Biology. September 20-22, 2023. Vigo, Spain. Workshop on ovarian tissue cryopreservation. Hospital of Lithuanian University of Health Sciences Kaunas Clinics. November 15-16, 2022. Kaunas, Lithuania. ESHRE Campus course "New approaches for understanding early human development." October 20-21, 2022. Belgrade, Serbia. 2022 BIOREGATE Forum. September 21-23, 2022. Louvain-la-Neuve, Belgium. CRYO2022 - A joint meeting of the Society for Cryobiology and Society of Low Temperature Biology. July, 19-22, 2022. Dublin, Ireland.

Annual Meeting of the Society of Low Temperature Biology. November 3-5, 2021. Brussels, Belgium.

ESHRE Campus symposium "Reproductive tissue engineering and fertility preservation". September, 9-10, 2021. Virtual meeting.

Annual Meeting of the Society of Low Temperature Biology. October 7-9, 2020. Brussels, Belgium.

Annual Meeting of the Society of Low Temperature Biology. October 3-4, 2019. Seville, Spain.

9th Course on Cryopreservation and Transplantation of Human Ovarian Tissue. June 27-28, 2019. Brussels, Belgium.

64th Annual Meeting of the Canadian Fertility and Andrology Society Pre-course: Cryopreservation and transplantation of ovarian tissue. September 12, 2018. Montreal, Canada.

Annual Meeting of the Society of Low Temperature Biology. September 6-7, 2018. Prague, Czech Republic.

8th Course on Cryopreservation and Transplantation of Human Ovarian Tissue. June 28-29, 2018. Brussels, Belgium

Workshop on follicle isolation at Chulalongkorn University. July 5, 2018. Bangkok, Thailand.

5th World Congress of the International Society for Fertility Preservation PC course: Cryopreservation of ovarian tissue, hands on lab and clinics, tissue collection, lab preparation and tissue freezing, methods for MRD, transplantation techniques. November 16, 2017. Vienna, Austria

XXII Congreso COMEGO PC course: ovarian tissue cryopreservation and transplantation. July 27, 2017. Mexico City, Mexico

7th Course on Cryopreservation and Transplantation of Human Ovarian Tissue and Preantral Follicle Isolation and In Vitro Culture. July 6-7, 2017. Brussels, Belgium

25th Annual ESGE Congress PC course: Uterine Transplantation and Ovarian Reimplantation. October 2, 2016. Brussels, Belgium

6th Course on Cryopreservation and Transplantation of Human Ovarian Tissue and Preantral Follicle Isolation and In Vitro Culture. June 29-30, 2016. Brussels, Belgium

10th World Biomaterials Congress' New Frontier Symposium: Reproductive tissue engineering. May 17-22, 2016. Montreal, Canada

1st Course on Cryopreservation and Transplantation of Human Ovarian Tissue. January 27-29, 2016. Hangzhou, China

4th TERMIS World Congress' Symposium: Engineering an artificial ovary: a new tool for fertility preservation in cancer patients. September 8-11, 2015. Boston, USA

5th Course on Cryopreservation and Transplantation of Human Ovarian Tissue and Preantral Follicle Isolation and In Vitro Culture. June 17-18, 2015. Brussels, Belgium

4th Course on Cryopreservation and Transplantation of Human Ovarian Tissue and Preantral Follicle Isolation and In Vitro Culture. July 3-4, 2014. Brussels, Belgium

3rd Course on Cryopreservation and Transplantation of Human Ovarian Tissue and Preantral Follicle Isolation and In Vitro Culture. June 3-4, 2013. Brussels, Belgium

Fertility preservation: from endometriosis to ovarian tissue cryopreservation. September 21-22, 2012. Brussels, Belgium

2nd Course on Cryopreservation and Transplantation of Human Ovarian Tissue and Preantral Follicle Isolation and *In Vitro* Culture. June 25-26, 2012. Brussels, Belgium

1st Course on Cryopreservation and Transplantation of Human Ovarian Tissue and Preantral Follicle Isolation and *In Vitro* Culture. June 14-15, 2012. Brussels, Belgium

Publication date	26/08/2010
Title	Scaffolds for follicle transplantation
Patent application number	20100215713
Inventors	Christiani Andrade Amorim, Jacques Donnez, Marie-Madeleine Dolmans, Anne Van Langendonck
Editorial board member	<p>Since 2023: Section Editor at Reproductive Biology and Endocrinology</p> <p>Since 2021: Associate Editor at In Vitro Models</p> <p>Since 2019: Editor-in-Chief of the Journal of Fertility Preservation</p> <p>Since 2019: Associate Editor at Frontiers in Global Reproductive Health Assisted Reproduction</p> <p>2020 - 2023: Associate Editor at Human Reproduction Update</p> <p>2020 - 2023: Associate Editor at Biomedical Engineering Online</p> <p>2016 - 2019: Associate Editor at European Medical Journal Reproductive Health</p> <p>2016 - 2017: Associate Editor at Annals of Biomedical Engineering</p> <p>2014 - 2017: Associate Editor at Human Reproduction</p> <p>Since 2015: Associate Editor at Journal of Tissue Science & Engineering</p>
Ad-hoc reviewer	<p>Acta Biomaterialia, Acta Histochemica, Anais da Academia Brasileira de Ciências</p> <p>Annals of Biomedical Engineering, Animal Reproduction, BioMed Research International, Brazilian Journal of Animal Reproduction, Brazilian Journal of Medical and Biological Research, Cell Transplantation, Chronic Diseases and Translational Medicine, Current Women's Health Reviews, European Journal of Obstetrics, Gynecology, and Reproductive Biology, Fertility and Sterility, Gene Expression Patterns, Gynecologic and Obstetric Investigation, Human Reproduction, Human Reproduction Update, International Journal of Fertility & Sterility, International Journal of Reproductive Medicine, Journal of Assisted Reproduction and Genetics, Journal of Bioscience and Bioengineering, Journal of Cell and Animal Biology, Journal of Equine Veterinary Science, Journal of Tissue Engineering and Regenerative Medicine, Journal of Ovarian Research, Molecular and Cellular Endocrinology, Molecular Human Reproduction, Nature Medicine, Obstetrics and Gynecology International, Reproduction, Reproductive Biomedicine Online, Reproduction, Fertility and Development, Scientific Reports, Small Ruminant Research, Steroids, Theriogenology, Veterinary Medicine International, Zygote.</p>
Grant reviewer	<p>European Commission</p> <p>Agence Nationale de la Recherche (France)</p> <p>Assistance Publique - Hôpitaux de Paris (France)</p> <p>Deutsche Forschungsgemeinschaft (Germany)</p> <p>Executive Agency for Higher Education Research Development and Innovation Funding (Romania)</p> <p>Fundação para a Ciência e Tecnologia (Portugal)</p> <p>GOSH Charity and Sparks National Funding (United Kingdom)</p> <p>National Institute for Medical Research Development (Iran)</p> <p>National Science Centre (Poland)</p> <p>Samenwerkende GezondheidsFondsen (the Netherlands)</p>
Project grants (in Belgium)	
Year	2024 - 2029

Project name	Placenta derivatives to support in vitro folliculogenesis and spermatogenesis (PROVIDE)
Role	Co-promoter
Organization	Fédération Wallonie-Bruxelles - Coordinated research project
Amount	€ 784,000
Year	2023 – 2027
Project name	Development and application of human ovarian assembloids
Role	Promoter
Organization	Global PhD Partnerships 2022 KU Leuven and UCLouvain
Amount	PhD scholarship + € 17,440
Year	2023 – 2025
Project name	Spatiotemporal characteristics of extracellular matrix in PCOS patients and investigating the innovative engineered ovary with PEGylated fibrin to improve folliculogenesis in human polycystic ovaries
Role	Promoter
Organization	Fonds Speciaux de Recherche
Amount	Postdoctoral fellowship
Year	2023 – 2025
Project name	Safeguarding the ovary: increasing cryopreservation accessibility and extending its transplantation application to endocrinological restoration
Role	Coordinator
Organization	Foundation against Cancer – Organ saving treatment and improvement of quality of life
Amount	€ 843,560
Year	2023 – 2024
Project name	Developing building blocks for the transplantable engineered ovary to restore both fertility and endocrine function in cancer patients
Role	Promoter
Organization	Fonds de la Recherche Scientifique – FNRS (CDR)
Amount	€ 63,000
Year	2023 – 2024
Project name	Developing building blocks for the transplantable engineered ovary to restore both fertility and endocrine function in cancer patients
Role	Promoter
Organization	Fonds de la Recherche Scientifique – FNRS (EQP)
Amount	€ 32,367
Year	2022 – 2023
Project name	Development and application of human ovarian assembloids in the transplantable engineered ovary
Role	Project promoter
Organization	Fonds Speciaux de Recherche (FSR-UCL)
Amount	PhD scholarship
Year	2022 – 2023
Project name	A prospective in vitro model for evaluating the impacts of environmental contaminants reproduction
Role	Promoter
Organization	WBI (WBI-CONFAP)
Amount	Missions and PhD scholarships to Brazil

Year	2021 - 2023
Project name	Development of a bioinspired engineered ovary to restore fertility in cancer patients
Role	Promoter
Organization	South East Asia-Europe Joint Funding Scheme
Amount	€ 342,600
Year	2021 - 2022
Project name	Phthalates in female reproduction – impact of phthalates mixtures on human ovarian follicles
Role	Promoter
Organization	Fonds de la Recherche Scientifique – FNRS (CDR)
Amount	€ 57,000
Year	2021 - 2022
Project name	Evaluation of a preservation solution for human ovarian tissue transportation
Role	Promoter
Organization	Innoviris Proof of Concept
Amount	€ 125,717
Year	2020 - 2023
Project name	Elimination of malignant cells from ovarian tissue: building endocrine and reproductive reestablishment for cancer patients
Role	Promoter
Organization	Fonds de la Recherche Scientifique – FNRS (PDR)
Amount	€ 312,500
Year	2020 - 2023
Project name	Design, synthesis and quality assessment of artificial human ovary and endometrium
Role	Co-promoter
Organization	Fundation Louvain (LEG SCHIRMER)
Amount	€ 1.500.000
Year	2019
Project name	Evaluation of photodynamic therapy efficiency and toxicity on ovarian tissue intended for fertility preservation
Role	Promoter
Organization	Wallonie-Brussels International (WBI)
Amount	€ 1,860
Year	2018 - 2021
Project name	Fundamental and translational research on ovarian tissue and oocytes for fertility preservation in children and young women with cancer
Role	Co-supervisor
Organization	EOS – The Excellence of Science (FNRS/FWO)
Amount	€ 3,185,938
Year	2018
Project name	Cryopreservation of ovarian tissue as an alternative to restore fertility in cancer patients and protect endangered animal species from extinction
Role	Promoter
Organization	Académie de Recherche et d'Enseignement Supérieur
Amount	One-month mission in Thailand (€ 5,600)
Year	2018 – 2020

Project name	Création d'un ovaire artificiel transplantable pour la restauration de la fertilité des patientes cancéreuses : développement de sa structure physique
Role	Promoter
Organization	Bourse de coopération au développement (CAI-UCLouvain)
Amount	PhD scholarship
Year	2016 – 2020
Project name	Transplantable artificial ovary project: development of its biological properties and biochemical signaling
Role	Promoter
Organization	Fonds de la Recherche Scientifique – FNRS (mandat aspirant)
Amount	PhD scholarship
Year	2016 – 2017
Project name	Study of the physical and biological properties of the ovary – a next step towards the transplantable artificial ovary to restore fertility in cancer patients
Role	Project promoter
Organization	Fonds de la Recherche Scientifique – FNRS (Mandat d'Impulsion Scientifique)
Amount	€ 187,137.00
Year	2015 - 2017
Project name	Development of a disease-free artificial ovary to restore fertility in patients with leukemia
Role	Co-promoter
Organization	Fonds de la Recherche Scientifique – FNRS (Télévie)
Amount	PhD scholarship
Year	2015 – 2016
Project name	Development of the artificial ovary matrix: characterization and utilization of hydrogels derived from decellularized ovarian extracellular matrix
Role	Project promoter
Organization	Fonds Speciaux de Recherche (FSR-UCL)
Amount	€ 45,750.00
Year	2014 – 2017
Project name	Equilibrium vitrification: a novel approach to cryopreserve ovarian tissue from humans and endangered animal species (in collaboration with Universidade de Brasília, Brazil)
Role	Project promoter
Organization	Wallonie-Brussels International (WBI)
Amount	€ 31,856.00
Year	2013 – 2015
Project name	Development of a disease-free artificial ovary to restore fertility in patients with leukemia
Role	Project co-promoter
Organization	Fonds de la Recherche Scientifique – FNRS
Amount	€ 26,220.00
Year	2013 – 2015
Project name	Human ovary preservation expertise – HOPE
Role	Project writing and execution
Organization	Fondation Contre le Cancer
Amount	€ 249,504.00

Year	2011 – 2014
Project name	Assembly of an artificial ovary combining isolated human ovarian follicles, fibrin and a textile pocket – OVART
Role	Project conception, writing and execution
Organization	Région Wallonne (BIOWIN)
Amount	€ 2,084,390.00
Year	2009 – 2011
Project name	Human ovary preservation expertise – HOPE
Role	Project writing and execution
Organization	Fondation Contre le Cancer
Amount	€ 378,000.00
Year	2008
Project name	Optimization of the cryopreservation protocol for human ovarian tissue
Role	Project conception, writing and supervision
Organization	Brains back to Brussels Program from the Institute for the Encouragement of Scientific Research and Innovation of Brussels
Amount	€ 13,411.00
Postdoctoral fellows	
Period	Since 2024
Postdoc	S. Moghassemi (Fédération Wallonie-Bruxelles)
Period	Since 2024
Postdoc	A. Dadashzadeh (Fondation Contre le Cancer)
Period	Since 2023
Postdoc	S. Nikanfar (FSR)
Period	2018 – 2022
Postdoc	J. Vilela (WBI, Innoviris)
Period	2017 – 2020
Postdoc	M. C. Chiti (FNRS, EOS)
Period	2014 – 2015
Postdoc	F. Paulini (CAPES, Brazil)
PhD student advisor	
Period	Since 2024
	S. Zhang (China Scholarship Council, China)
Period	Since 2024
	Y. Wan (China Scholarship Council, China)
Period	Since 2023
	Y. Li (China Scholarship Council, China)
Period	Since 2022
	M. Sousa (Fondation Louvain)
Period	Since 2021
	J. Yang (China Scholarship Council, China)

Period	Since 2020 H. Vlieghe (FNRS, PDR)
Period	2020-2024 A. Dadashzadeh (Fondation Louvain)
Period	2020-2023 S. Moghassemi (FNRS, EOS; Fondation Louvain)
Period	2016 – 2021 E. Ouni (UCLouvain, Coopération au développement)
Period Student	2015 – 2021 P. Shahri (Fondation Louvain; FNRS, Aspirant)
PhD student Co-advisor	
Period Student	Since 2023 L. Liu (Global PhD Partnerships 2022 KU Leuven and UCLouvain)
Period Student	Since 2019 C. Léon Félix (CAPES, Brazil)
Period Student	2017 – 2020 R. Masciangelo (Fondation St-Luc)
Period Student	2013 – 2017 M.C. Chiti (FNRS, Télévie)
Period Student	2011 – 2014 V. Luyckx (FNRS, Télévie)
PhD student mentorship	
Period Student	2020 – 2021 M. Grubliauskaitė (Erasmus+, Vilnius University, Lithuania)
Period Student	2017 – 2018 E. Leonel (FAPESP, Brazil)
Period Student	2015 J. Vilela (CAPES, Brazil)
Period Student	2012 – 2015 M. Soares (Fondation St-Luc)
Period Student	2012 – 2013 S. Scalercio (CAPES, Brazil)
Period Student	2010 – 2013 J. Vanacker (FNRS, Télévie)
Period Student	2007 – 2012 A. David (CGRI funding)

**MSc student
advisor**

Period	2024 – 2025
Student	K. Woinska
Period	2023 – 2024
Student	D. Charif
Period	2019 – 2020
Student	C. David
Period	2006 – 2007
Student	R. C. B. de Brito (CAPES, Brazil)
Period	2006 – 2007
Student	D. O. Futino (CAPES, Brazil)

**Other meriting
academic
missions
*Presentations***

Bioengineering and the artificial ovary. UK Fertility Preservation Annual Conference - A Window into the Future. May 21-23, 2024. Edinburgh, UK.

Will we ever grow oocytes in vitro from cryopreserved ovarian tissue? Congresso Nazionale della Società Italiana di Fertilità e Sterilità e Medicina della Riproduzione. May 16-18, 2024. Riccione, Italy.

How reproductive tissue engineering has been revolutionizing reproductive medicine. 7° Congresso Nazionale della Società Italiana della Riproduzione Umana. April 11-13, 2024. Bari, Italy.

Tissue engineering ovary. Fertility 2024 – Rethinking Reproduction. January 10-13, 2024. Edinburgh, UK.

Cancer cell contamination and decontamination methods for ovaries. Xth Society of Reproductive Medicine and Surgery Congress. November 1-5, 2023. Antalya, Turkey.

New horizons in fertility preservation: creating an artificial ovary. Global Excellence in Reproductive Medicine. February 23-25, 2023. Guadalajara, Mexico.

Current situation on fertility preservation in Europe. International Scientific Practical Conference “Preservation of Fertility in Lithuania: present and perspective.” November 14, 2022. Kaunas, Lithuania.

Transplantable artificial ovary. 10th Reproductive Health and Infertility Congress. November 10-13, 2022. Kyrenia, Northern Cyprus.

Ex vivo purging of cancer cells using photodynamic therapy: a safe approach to restore fertility in leukemia patients. 10th Reproductive Health and Infertility Congress. November 10-13, 2022. Kyrenia, Northern Cyprus.

Transplantable artificial ovary. IX Society of Reproductive Medicine and Surgery Congress in conjunction with ISIVF Regional Meeting – OVIN-3 International Symposium on Controversial Topics and Current Approaches in Ovulation Induction, Infertility and ART. November 2-6, 2022. Antalya, Turkey.

Photodynamic therapy to purge malignant cells from the ovarian tissue. IX Society of Reproductive Medicine and Surgery Congress in conjunction with ISIVF Regional Meeting – OVIN-3 International Symposium on Controversial Topics and Current Approaches in Ovulation Induction, Infertility and ART. November 2-6, 2022. Antalya, Turkey.

New tools on fertility preservation. XVII Annual Meeting of the Mediterranean Society for Reproductive Medicine. September 18-20, 2022. Bari, Italy.

Desenvolvimento de um ovário biomimético como estratégia para restaurar a fertilidade em pacientes com leucemia. IB Virtual, UnB. June 22, 2022. Online meeting. <https://www.youtube.com/watch?v=CJPaxSmqeSM&t=17s>

Ovarian tissue cryopreservation and transplantation: a natural hormone replacement therapy approach? 4th Edition of International Webinar on Aging and Rejuvenation. February 7-8, 2022. Online meeting.

Ovarian tissue cryopreservation – laboratory protocols. 8th Annual Conference of FPS(I), Fertiprotect 2021. November 27-28, 2021. Virtual conference.

Cryopreservation of ovarian tissue. XI ASEBIR Congress. November 17-19, 2021. Toledo, Spain.

Transplantable artificial ovary. 25° CBRA and 15° REDLARA. November 3-6, 2021. Rio de Janeiro, Brazil.

Developing an engineered ovary. Discovery Ecosystem Virtual Symposium. October 6-7, 2021. Virtual meeting.

Transplantable artificial ovary. 7th Edition of the International Meeting “The Pelvis as a Mother”, Regional Event of Mediterranean Society of Reproductive Medicine. September 27-28, 2021. Bari, Italy.

Criopreservação e transplante de tecido ovariano: resultados atuais e estratégias futuras. Summit Meeting in Assisted Reproduction: The Future is Now. September 21-22, 2021. Virtual meeting.

Engineered ovary. ESHRE Campus symposium "Reproductive tissue engineering and fertility preservation". September, 9-10, 2021. Virtual meeting.

Current status of transplantable artificial ovaries. 37th Virtual Annual Meeting of ESHRE. June 26 – July 1, 2021. Virtual meeting.

The artificial ovary. ESHRE Campus symposium "Cryopreservation of ovarian tissue". April 23-24, 2021. Virtual meeting.

Freezing and transplantation of ovarian tissue: new applications. IV Simpósio Internacional de Reprodução Humana e Genética. November 19-20, 2020. Virtual symposium.

Ovarian cortical tissue freezing – stepwise approach. 7th Annual Conference of FPS(I), Fertiprotect 2020. October 10-11, 2020. Virtual conference.

Artificial ovarian engineering. International Joint Webinar on Tissue Engineering. Royan Institute for Reproductive Biomedicine, Stem Cell Biology and Technology. October 4, 2020. Virtual meeting.

Development of an artificial ovary. The International IVF Initiative, Session 8: Rebuilding Ovarian Function. April 24, 2020. Online meeting.

Artificial ovary: are you ready? Fertility In Safe: First GEA IVF Congress. April 23-24, 2020. Cham, Switzerland.

Ovarian tissue cryopreservation: only slow freezing or also vitrification. Fertility In Safe: First GEA IVF Congress. April 23-24, 2020. Cham, Switzerland.

Artificial ovarian engineering / the artificial ovary. Nordic Fertility Innovation 2020. January 31-February 1, 2020. Oslo, Norway.

Artificial ovary. UClouvain's IREC Seminar. December 16, 2019. Brussels, Belgium.

Ovarian tissue engineering, how close to developing an artificial ovary? The 6th World Congress of the International Society for Fertility Preservation. November 14-16, 2019. New York, USA.

Cryopreservation of ovarian tissue: an emerging technology for female germline preservation of endangered species and native breeds. 55th Meeting of the Society of Low Temperature Biology. October 3-4, 2019. Seville, Spain.

Novel technology on reproductive tissue engineering: artificial ovary. 12th Biennial Congress of the Pacific Society of Reproductive Medicine. September 25-27, 2019. Pattaya, Thailand.

Ovarian tissue cryopreservation (pre-congress event). 12th Biennial Congress of the Pacific Society of Reproductive Medicine. September 25-27, 2019. Pattaya, Thailand.

Cryopreservation and transplantation of ovarian tissue. Annual Meeting of the Armenian Society of Reproductive Medicine. July 3, 2019. Yerevan, Armenia.

Development of a transplantable bioengineered ovary. Annual Meeting of the Armenian Society of Reproductive Medicine. July 3, 2019. Yerevan, Armenia.

1st Practical Course on Ovarian Tissue Cryopreservation, Follicle Isolation and In Vitro Culture. May 14-15, 2019. Russian National Medical Research Center for Obstetrics, Gynecology, and Perinatology. Moscow, Russia.

Artificial ovary: current status and future perspectives. VII International Symposium on Animal Biology of Reproduction. November 6-9, 2018. Aracaju, Brazil.

La promesse de l'ovaire artificiel. Ferring Today & Tomorrow. September 27-28, 2018. Cannes, France.

Current advances in the development of a transplantable artificial ovary. Nature - International Summit on Reproductive Medicine. September 21-23, 2018. Lugano, Switzerland.

Ovarian tissue engineering. ESHRE Campus symposium "In vitro modelling: from Embryo to gametes". September 20-21, 2018. Bilbao, Spain.

Reproductive tissue engineering. ESHRE Campus symposium "In vitro modelling: from embryo to gametes". September 20-21, 2018. Bilbao, Spain.

Recent advances in the development of a transplantable artificial ovary. 64th Annual Meeting of the Canadian Fertility and Andrology Society. September 13-15, 2018. Montreal, Canada.

Ovarian tissue cryopreservation: past, present and future directions. Annual Meeting of the Society of Low Temperature Biology. September 6-7, 2018. Prague, Czech Republic.

Artificial ovary: current status and future perspectives. Faculty of Medicine, Chulalongkorn University. July 5, 2018. Bangkok, Thailand.

Ovarian tissue cryopreservation and transplantation. Faculty of Medicine, Chulalongkorn University. July 5, 2018. Bangkok, Thailand.

Ovarian cryopreservation and artificial ovary for fertility restoration. Faculty of Medicine, Srinakharinwirot University. July 4, 2018. Bangkok, Thailand.

Artificial ovary: current status and future perspectives. Development of Scientific Cooperation in Reproductive Medicine Research Congress. May 25-26, 2018. Warsaw, Poland.

Cryopreservation and transplantation of ovarian tissue. 22nd Ain Shams Obstetrics and Gynaecology International Conference. May 9-10, 2018. Cairo, Egypt.

Development of a transplantable artificial ovary to restore fertility in cancer patients. 22nd Ain Shams Obstetrics and Gynaecology International Conference. May 9-10, 2018. Cairo, Egypt.

Artificial ovary: current status and future perspectives. European Fertility Meeting "Strategies to improve IVF success rate". December 1-2, 2017. Rome, Italy.

Recent advances in the development of a transplantable artificial ovary. 18e Journée sur l'Assistance Médicale à la Procréation de l'Hôpital Américain de Paris. November 24, 2017. Paris, France.

The artificial ovary for storing fertility and reducing cancer cells contamination. 5th World Congress of the International Society for Fertility Preservation. November 16-18, 2017. Vienna, Austria.

Recent advances in the development of a transplantable artificial ovary. 5th Annual Conference of the Korean Society for Fertility Preservation. November 12, 2017. Seoul, Korea.

Ovarian tissue cryopreservation and transplantation. Masterclass Programme on Recent Advances in Gynaecology. October 19, 2017. Birmingham, UK.

Reproductive tissue engineering: when bioengineering meets reproductive health. 18th Royan International Twin Congress. August 30 – September 01, 2017. Tehran, Iran.

Recent advances in the development of a transplantable artificial ovary. 18th Royan International Twin Congress. August 30 – September 01, 2017. Tehran, Iran.

Fertility preservation in female patients. 22nd Congress of the European Hematology Association. June 22-25, 2017. Madrid, Spain.

Artificial ovary: where are we? 7th Biannual Meeting of the Turkish Society of Reproductive Medicine. November 17-20, 2016. Antalya, Turkey.

The artificial ovary: from experimental studies to future endoscopic approaches. ESGE 25th Annual Congress. October 2-5, 2016. Brussels, Belgium.

The ovarian follicle microenvironment: in vivo perspectives. L'ovaire normal et pathologique: de la réalité au fantasme. November 25-26, 2016. Brussels, Belgium.

Artificial ovary. 12th Scientific Meeting of the Groupe de recherche et d'étude sur la cryoconservation de l'ovaire et du testicule. June 3-4, 2016. Paris, France.

The ovarian follicle microenvironment and the artificial ovary. 4th World Congress of International Society for Fertility Preservation. November 13-15, 2015. Shanghai, China.

Assembling of the artificial ovary. II International Meeting of Minimally Invasive gynecology and II Brazilian Congress of Minimally Invasive Gynecology. June 4-6, 2015. Belo Horizonte, Brazil.

Next steps towards the transplantable artificial ovary. 6th Yazd International Congress and Student Award in Reproductive Medicine. April 17-19, 2015. Yazd, Iran.

Next steps towards the transplantable artificial ovary. Freezing of oocytes, embryos and ovarian tissue: focus on fertility management and fertility preservation. January 16-17, 2015. Brussels, Belgium.

Artificial ovary: where are we? 5th Anniversary Seminar of Centre de Recherche et d'Ingénierie des Biomatériaux. January 29, 2015. Brussels, Belgium.

Cryopreservation and utilization of ovarian tissue: when, where and how? 15th Congress on Reproductive Biomedicine. September 3-5, 2014. Tehran, Iran.

Vitrification of baboon ovarian tissue: will vitrification replace conventional freezing for ovarian tissue cryopreservation? 15th Congress on Reproductive Biomedicine. September 3-5, 2014. Tehran, Iran.

Improvements and perspectives in the cryopreservation of ovarian tissue. 50 Congreso Mexicano de Medicina de la Reproducción. July 24-27, 2013. Cancun, Mexico.

Current status of gamete vitrification (2013). At 50 Congreso Mexicano de Medicina de la Reproducción. July 24-27, 2013. Cancun, Mexico.

Cryopreservation and utilization of ovarian tissue; when, where and how. At ESHRE's 29th Annual Meeting. July 7-10, 2013. London, UK.

Artificial ovary. Simpósio de Endometriose e Infertilidade: Evidência, Experiência e Inteligência. June 28, 2013. Porto Alegre, Brazil.

Vitrification of ovarian tissue. 28th Scientific Meeting of the Belgian Society for Reproductive Medicine. November 30 - December 01, 2012. Spa, Belgium.

1986-2011: Restoring fertility. From endometriosis to ovarian tissue cryopreservation. "From endometriosis to ovarian tissue cryopreservation" Symposium. September 20-21, 2012. Brussels, Belgium.

Indicazioni e tecniche chirurgiche nella paziente con diagnosi di neoplasia extragenitale. La PMA nelle pazienti a rischio di fallimento ovarico precoce: dall'endometriosi all'oncologia. May 20, 2011. Milan, Italy.

Critical evaluation of the ovarian tissue cryopreservation. XXVIII National Congress of the Spanish Society of Fertility. May 19-21, 2010. Valencia, Spain.

Bioengineering the ovary. First World Congress of the International Society for Fertility Preservation. December 10-12, 2009. Brussels, Belgium.

Cryopreservation of isolated sheep primordial follicles. Workshop of the European Science Foundation on "Cryopreservation of ovarian tissue in cancer patients, farm animals and endangered species". May 15-17, 2008. Heidelberg, Germany.

Current advances in the development of a transplantable artificial ovary. At XXII FIGO World Congress. October 14-19, 2018. Rio de Janeiro – Brazil.

Stepped vitrification procedure to cryopreserve human ovarian tissue: we are not there yet. At the Annual Meeting of the Society of Low Temperature Biology. September 6-7, 2018. Prague – Czech Republic.

Utilization of a new freezing protocol containing a higher concentration of DMSO to cryopreserve human ovarian tissue: preliminary results. At the Annual Meeting of the Society of Low Temperature Biology. September 19-20, 2017. Cambridge – UK.

Utilization of a new freezing protocol containing higher concentrations of DMSO to cryopreserve human ovarian tissue: preliminary results. At the Annual Meeting of the Society of Low Temperature Biology. September 7, 2016. Dresden – Germany.

Fibrin as matrix to graft isolated preantral follicles. At the 14th TERMIS World Congress. September 8-11, 2015. Boston – USA.

New steps towards the artificial ovary. At the 15th Congress on Reproductive Biomedicine. September 3-5, 2014. Tehran – Iran.

First transplantation of a biodegradable artificial ovary containing isolated murine follicles: hope for clinical application. At The 3rd World Congress of the International Society for Fertility Preservation. November 7-9, 2013. Valencia – Spain.

Successful vitrification and autografting of baboon (*Papio anubis*) ovarian tissue. At The 3rd International Congress on Controversies in Cryopreservation of Stem Cells, Reproductive Cells, Tissue & Organs (CRYO). March 21-23, 2013. Berlin – Germany.

Transplantation of an alginate-matrigel matrix containing isolated ovarian stromal cells: first step in developing an artificial ovary. At 3rd International Conference “Strategies in Tissue Engineering”. May 23-25, 2012. Würzburg – Germany.

Vitrification and xenografting of human ovarian tissue: preliminary results. At 2nd International Congress on Controversies in Cryopreservation of Stem Cells, Reproductive Cells, Tissue & Organs (CRYO). April 7-9, 2011. Valencia – Spain.

Chairmanship

Session II of the PCC13 “Novel technologies in human reproduction.” 37th Virtual Annual Meeting of ESHRE. June 26 – July 1, 2021.

Session Blood and Blood Vessels Cryopreservation. 55th Meeting of the Society of Low Temperature Biology. October 3-4, 2019. Seville, Spain.

Precongress Course: 20 years of human embryonic stem cells. (2019) At the ESHRE's 35th Annual Meeting. June 23-26, 2019. Vienna, Austria.

Session: 3D reproductive organs. (2019) At the ESHRE's 35th Annual Meeting. June 23-26, 2019. Vienna, Austria.

Session: Young Scientist. (2018) At the Annual Meeting of the Society of Low Temperature Biology. Prague – Czech Republic.

Session: Storing ovarian tissue. (2017) At the 5th World Congress of the International Society for Fertility Preservation. Vienna – Austria.

Session: Antioxidants and fertility. (2017) At the 18th Congress on Reproductive Biomedicine. Tehran – Iran.

Session: Uterine transplantation and ovarian reimplantation. (2016) At the ESGE 25th Annual Congress. Brussels – Belgium.

Session: Préservation de la fertilité. (2016) At L'ovaire normal et pathologique: de la réalité au fantasme. Brussels – Belgium.

Session: Reproductive tissue engineering. (2016) At the 10th World Biomaterials Congress. Montreal – Canada.

Session: Ovarian tissue engineering. Fibrin as matrix to graft isolated preantral follicles. (2015) At the 14th TERMIS World Congress. Boston – USA.

Session: Fertility preservation. (2015) At the II International Meeting of Minimally Invasive gynecology and II Brazilian Congress of Minimally Invasive Gynecology. Belo Horizonte – Brazil.

Session: Cryobiology and fertility preservation. (2014) At the 15th Congress on Reproductive Biomedicine. Tehran – Iran.
Session: Selected oral communications on cryopreservation and transplantation. (2009) At the First World Congress of the International Society for Fertility Preservation. Brussels – Belgium.

Jury member

BSc (Final work for undergraduation) Jury member for Emmanuelle Lima de Figueirêdo on Evaluation of the recovery technique of caprine embryos by transcervical path (Universidade Estadual do Ceará). January 1999.

BSc (Final work for undergraduation) Jury member for Larissa Santana Honorato de Azevedo on Aspects of the reproductive physiology in cyclic females (Universidade de Brasília). January 2006.

BSc (Final work for undergraduation) Jury member for Priscilla Pereira Moura on In vitro production of ovine embryos (Universidade de Brasília). January 2006.

BSc (Final work for undergraduation) Jury member for Emily Nóbrega Borges on Cryopreservation of mammalian germ cells and embryos (Universidade de Brasília). January 2006.

BSc (Final work for undergraduation) Jury member for Anita de Medeiros Rodrigues on aspects of oocyte in vitro and in vivo development (Universidade de Brasília). July 2006.

MSc Jury member for Carlos Alberto da Cruz Júnior on Morphological characteristics of Santa Inês sheep cervix (Universidade de Brasília). 2006.

MSc Jury member for Loïc Germain on Influence of the fibrinogen and thrombin concentrations in fibrin hydrogels on the survival and proliferation of dental stem cells (Université Catholique de Louvain). 2013.

MSc Jury member for Ellen Cristina Rivas Leonel on Cryopreservation and heterotopic autotransplantation of queen ovarian tissue (Universidade de Brasília). 2013.

MSc Jury member for Lucie Mortiaux on Physical aspects of the artificial ovary – characterization of human ovarian tissue and fibrin scaffolds (Université Catholique de Louvain). 2016.

MSc Jury member for Liudimila Passos Gonçalves on Orthotopic autotransplantation of queen ovarian cortex (Universidade de Brasília). 2017.

MSc Jury member for Kendall A. Hyde on Preantral follicle population, spatial distribution, and ovarian tissue autotransplantation in mares (Southern Illinois University Carbondale). 2022.

PhD Jury member for Anu David on Study of follicular growth and differentiation after transplantation of cryopreserved human ovarian tissue (Université Catholique de Louvain). 2007 – 2012.

PhD Jury member for Julie Vanacker on New strategies to restore fertility in leukemia patients after gonadotoxic treatment (Université Catholique de Louvain). 2009 – 2013.

PhD Jury member for Valérie Luyckx on Fertility preservation in cancer patients: from cryopreserved ovarian tissue to isolated follicles (Université Catholique de Louvain). 2010 – 2014.

PhD Jury member for Janice de Miranda Vasconcellos Vilela on Cryopreservation of queen and bitch ovarian tissue and further evaluation by in vitro culture, CAM-model and heterotopic autotransplantation (Universidade de Brasília). 2013.

PhD Jury member for Michelle Soares on Fertility preservation and leukemia – cellular components of the artificial ovary and disease retransmission through the graft (Université Catholique de Louvain). 2013 – 2015.

PhD Jury member for Maria Costanza Chiti on Development of an artificial ovary using fibrin matrix (Université Catholique de Louvain). 2013 – 2017.

PhD Jury member for Fernanda Paulini on Técnicas de imagem no estudo comparativo de ovários de diferentes espécies domésticas (Universidade de Brasília – Brazil). 2014.

PhD Member of the steering committee for Aiswarya Viswanath on Characterization and utilization of decellularized extracellular matrix hydrogels (Université Catholique de Louvain). 2014 – 2017.

PhD Jury member for Diego Manavella Isasmendi on Improvement of the transplantation procedure for human ovarian tissue (Université Catholique de Louvain). 2015 – 2018.

PhD Jury member for Rossella Masciangelo on Ovarian tissue cryopreservation and transplantation in adult and prepubertal patients (Université Catholique de Louvain). 2017 – 2020.

PhD Jury member for Dmitry Nikiforov on Ovarian tissue cryopreservation and oocyte production from the tissue (University of Teramo, Italy). 2019.

PhD Jury member for Marcella Mota da Costa on Investigação do tempo de revascularização e dos efeitos da sinvastatina no autotransplante de tecido ovariano criopreservado de gatas domésticas (Universidade de Brasília, Brazil). 2020.

PhD Jury member for Camille Hossay on Whole ovary transplantation (Université Catholique de Louvain). 2020 – 2022.

PhD Jury member for Samara Silva de Sousa on Efeito do resfriamento, criopreservação, e exposição ao fator de crescimento endotelial vascular sobre tecido ovariano equino auto ou xenotransplantado (Universidade Estadual do Ceará). 2020.

PhD Jury member for Ilmatar Rooda on Intercellular signaling in the human pre-ovulatory follicle: microRNA expression in granulosa cells and detection in the follicular fluid (Tallinn University of Technology). 2021.

PhD Jury member for Anniek Bus on Assessment of the effects of cryostorage on pre-antral follicle survival and preservation of intercellular connections (Universiteit Antwerpen). 2021.

PhD Jury member for Luciana Cacciatolla on improvement of the transplantation procedure for human ovarian tissue using adipose derived stem cells (Université Catholique de Louvain). 2019 – 2022.

PhD Jury member for Nguyen Thi Yen Thu on Ovarian tissue cryopreservation and transplantation for patients with central nervous system tumors (Université Catholique de Louvain). 2020 – 2022.

PhD Jury member for Anamaria-Cristina Herta on In vitro culture of oocytes from early preantral-stage mouse follicles: repair of interconnectivity with cumulus and role of glucose metabolism (Vrije Universiteit Brussel). June 2023.

PhD Jury member for Xueying Fan on Decoding the molecular makeup of the human ovary through single-cell transcriptomics (Leiden University). September 2023.

PhD Jury member for Guillaume Richer on Formation of testicular organoids for male reproductive research (Vrije Universiteit Brussel). November 2023.

PhD Jury member for Emilio Francés Herrero on Future bioengineering applications in female reproductive medicine (University of Valencia). January 2024.

PhD Jury member for Hanna Ørnes Olesen on Protective strategies against hypoxia and ischemia injury in human ovarian tissue transplantation (University of Copenhagen). April 2024.

Awards/ Recognition

Award Winner (best project) in the call “Organ saving treatment and improvement of quality of life” from the Foundation against Cancer. Belgium, 2022.

Listed as top 25 World Expert in Fertility by ExpertScape (World Expert is among the Top 0.1% of scholars in a given medical field worldwide - <https://www.expertscape.com/ex/fertility>)

Listed as World Top 2% Scientists in 2022 (Elsevier, <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw>)
3M Award "25 Women in Science in Latin America." 2021.
Top 10% of Human Reproduction reviewers. Cambridgeshire – UK, 2012, 2015 and 2018.

Royan International Research Award - Best research project in Female Infertility field. Tehran – Iran, September 2014.

Second best presentation. The 2nd World Congress on the International Society for Fertility Preservation. Miami – USA, 2011.

Nominated «Who's Who in Medicine and Healthcare» by Marquis Who's Who. New Jersey – USA, 2009

Dissertation approved with commendation by the committee members for the dissertation defence. Fortaleza – CE – Brazil, 1998

Listed one of 20 best projects and curriculums from post-graduate students in Latin America submitted to the Italian-Latin American Institute (IILA). Rome – Italy, 1997

Memberships

Society for the Study of Reproduction

International Society for Fertility Preservation

Reproductive Biology and Genetics Society

Ovarian Club

Tissue Engineering and Regenerative Medicine International Society

European Society of Human Reproduction and Embryology

Society of Low Temperature Biology

Publications

Articles

1. TAJBAKHSH F, TAVANA S, ASHTIANI MK, **AMORIM CA**, FATHI R. Optimal human ovarian follicle isolation: A review focused on enzymatic digestion. *Histol Histopathol*, 12:18747, 2024.
2. DADASHZADEH A, MOGHASSEMI S, **AMORIM CA**. Bioprinting of a liposomal oxygen-releasing scaffold for ovary tissue engineering. *Tissue Eng Part A*, *in press*.
3. MOGHASSEMI S, DADASHZADEH A, SOUSA MJ, VLIEGHE H, YANG J, LÉON-FÉLIX CM, **AMORIM CA**. Extracellular vesicles in nanomedicine and regenerative medicine: a review over the last decade. *Bioactive Materials*, 36:126-156, 2024.
4. LÉON-FÉLIX CM, MARANHÃO AQ, **AMORIM CA**, LUCCI CM. Optimizing decellularization of bovine ovarian tissue: toward a transplantable artificial ovary scaffold with minimized residual toxicity and preserved extracellular matrix morphology. *Cells Tissues Organs*, *in press*.
5. MIRBAHARI SN, **AMORIM CA**, HASSANI F, TOTONCHI M, HADDADI M, VELOJERDI MR, DALMAN A. In-vitro generation of follicle-like structures from human germ-like cells derived from theca stem cell combined with ovarian somatic cells. *Journal of Ovarian Research*, 17:2, 2024.
6. GRUBLIAUSKAITĖ M, VLIEGHE H, MOGHASSEMI S, DADASHZADEH A, CAMBONI A, GUDLEVIČIENĖ Ž, **AMORIM CA**. Influence of ovarian stromal cells on human ovarian follicle growth in a 3D environment. *Human Reproduction Open*, 2024;hoad052, 2023.
7. MOGHASSEMI S, DADASHZADEH A, JAFARI H, GHAFFARI-BOHLOULI P, SHAVANDI A, **AMORIM CA**. Liposomal oxygen-generating hydrogel for enhancing cell survival under hypoxia condition. *Colloids and Surfaces B Biointerfaces*, 231:113562, 2023.
8. GHAFFARI-BOHLOULI P, ALIMORADI H, MOGHASSEMI S, PETRI DFS, **AMORIM CA**, NIE L, SHAVANDI A. Alleviating hypoxia through self-generating oxygen and hydrogen peroxide fluorinated chitosan: insights from a kinetic study. *Chemical Engineering Journal*, 473:142072, 2023.

9. ZAND E, RAJABLOU E, SIADAT SF, BEIKI B, AKBARINEJAD V, **AMORIM CA**, REZAZADEH VALOJERDI M, TAHAEI LA, FATHI R. Successful 3D culture and transplantation of mouse isolated preantral follicles in hydrogel of bioengineered Wharton's jelly. *PLoS One*, 18:e0290095, 2023.
10. LEONEL ECR, DADASHZADEH A, MOGHASSEMI S, VLIEGHE H, WYNS C, ORELLANA R, **AMORIM CA**. New solutions for old problems: how reproductive tissue engineering has been revolutionizing reproductive medicine. *Annals of Biomedical Engineering*, 51:2143-2171, 2023.
11. DALMAN A, ADIB S, **AMORIM CA**, PIRJANI R, TOTONCHI M, VALOJERDI MR. Co-culture of human cryopreserved fragmented ovarian tissue with theca progenitor cells derived from theca stem cells. *J Assist Reprod Genet*, 40:1611-1622, 2023.
12. KOURTA D, KANBAR M, **AMORIM CA**, WYNS C. Cancer cell contamination and decontamination methods for ovaries and testes: special focus on prepubertal gonads with a view to safe fertility restoration. *Hum Reprod*, 38:780-798, 2023.
13. HOSSEINI E, KOHAN-GHADR HR, BAZRAFKAN M, **AMORIM CA**, ASGARI M, ZAKERI A, MOUSAVI SN, AFRADIABAGHARANI P, NAZARI M. Rescuing fertility during COVID-19 infection: Exploring potential pharmacological and natural therapeutic approaches for comorbidity, by focusing on NLRP3 inflammasome mechanism. *J Assist Reprod Genet*, 9:1-13, 2023.
14. MOGHASSEMI S, DADASHZADEH A, CAMBONI A, FERON O, AZEVEDO RB, **AMORIM CA**. Ex vivo purging of ovarian tissue from cancer cells using photodynamic therapy: a novel strategy to restore fertility in leukemia patients. *Hum Reprod Open*, 2023:hoad005, 2023.
15. ZAND E, RAJABLOU E, SIADAT SF, BEIKI B, AKBARINEJAD V, **AMORIM CA**, VALOJERDI MR, TAHAEI LA, FATHI R. Successful 3D culture and transplantation of mouse isolated preantral follicles in hydrogel of bioengineered Wharton's jelly. *PloS One*, 18:e0290095, 2023.
1. DADASHZADEH A, MOGHASSEMI S, PEAUCELLE A, LUCCI CM, **AMORIM CA**. Mind the mechanical strength: tailoring a 3D matrix to encapsulate isolated human preantral follicles. *Hum Reprod Open*, 2023:hoad004, 2023.
2. VLIEGHE H, LEONEL ECR, ASIABI P, **AMORIM CA**. The characterization and therapeutic applications of ovarian theca cells: An update. *Life Sci*, 317:121479, 2023.
3. DADASHZADEH A, MOGHASSEMI S, GRUBLIAUSKAITÉ M, VLIEGHE H, BRUSA D, **AMORIM CA**. Medium supplementation can influence the human ovarian cells in vitro. *J Ovarian Res*, 15:137, 2022.
4. MOGHASSEMI S, DADASHZADEH A, CAMBONI A, FERON O, AZEVEDO RB, **AMORIM CA**. Photodynamic therapy using OR141-loaded nanovesicles for eradication of leukemic cells from ovarian tissue. *J Photochem Photobiol B*, 40:103139, 2022.
5. MOGHASSEMI S, DADASHZADEH A, AZEVEDO RB, **AMORIM CA**. Nanoemulsion applications in photodynamic therapy. *J Control Release*, 351:164-173, 2022.
6. MOGHASSEMI S, DADASHZADEH A, AZEVEDO RB, **AMORIM CA**. Secure transplantation by tissue purging using photodynamic therapy to eradicate malignant cells. *J Photochem Photobiol B*, 234:112546, 2022.
7. ZGÓRECKA V, JESETA M, PROCHAZKA R, **AMORIM CA**, KRAJNIK K, MOZDZIAK P, PIEŃSKOWSKI W, SKOWROŃSKI MT, KRANC W. Approaches for in vitro culture of granulosa cells and ovarian follicles. *Med J Cell Biol*, 10:34-42, 2022.
8. OUNI E, VERTOMMEN D, **AMORIM CA**. Matrisome proteins at the heart of precision medicine and fertility restoration. *Fertil Steril*, Nov 11, 2022.
9. VILELA JMV, MOGHASSEMI S, DADASHZADEH A, DOLMANS MM, AZEVEDO RB, **AMORIM CA**. Safety of lavender oil-loaded niosomes for in vitro culture and biomedical applications. *Nanomaterials*, 12:1999, 2022.

10. KHATTAK H, WOODMAN H, AFIFI Y, **AMORIM CA**, FISHEL S, GALLOS I, COOMARASAMY A, TOPPING A. Experiences of young girls and women undergoing ovarian tissue cryopreservation: A systematic review and thematic synthesis. *J Psychosom Obstet Gynaecol*, 4:1-15, 2022.
11. KHATTAK H, **AMORIM CA**. What are my options? Fertility preservation methods for young girls and women. *Fertil Steril*, 4:S0015-0282(22)00251-5, 2022.
12. OUNI E, NEDBAL V, DA PIAN M, CAO H, HAAS KT, PEAUCELLE A, VAN KERK O, HERINCKX G, MARBAIX E, DOLMANS MM, TUURI T, OTALA M, VERTOMMEN D, **AMORIM CA**. Proteome-wide and matrisome-specific atlas of the human ovary computes fertility biomarker candidates and open the way for precision oncofertility. *Matrix Biol*, 24:S0945-053X(22)00037-3, 2022.
13. KHATTAK H, MALHAS R, CRACIUNAS L, AFIFI Y, **AMORIM CA**, FISHEL S, SILBER S, GOOK D, DEMESTEERE I, BYSTROVA O, LISYANSKAYA A, MANIKHAS G, LOTZ L, DITTRICH R, GALLOSI, COOMARASAMY A. Fresh and cryopreserved ovarian tissue transplantation for maintaining reproductive and endocrine function: a systematic review and individual patient data meta-analysis. *Hum Reprod Update*, 28:400-416, 2022.
14. CHITI MC, VANACKER J, OUNI E, TATIC N, VISWANATH A, DES RIEUX A, DOLMANS MM, WHITE LJ, **AMORIM CA**. Ovarian extracellular matrix-based hydrogel for human ovarian follicle survival in vivo: a pilot work. *J Biomed Mater Res B Appl Biomater*, 110:1012-1022, 2022.
15. CACCIOTTOLA L, NGUYEN TYT, **AMORIM CA**, DONNEZ J, DOLMANSMM. Modulating hypoxia and oxidative stress in human xenografts using adipose tissue-derived stem cells. *F S Sci*, 2:141-152, 2021.
16. DADASHZADEH A, MOGHASSEMI S, **AMORIM CA**. Evaluation of PEGylated fibrin as a three-dimensional biodegradable scaffold for ovarian tissue engineering. *Mater Today Chem*, 22:100626, 2021.
17. MOGHASSEMI S, DADASHZADEH A, SOUZA PEN, AZEVEDO RB, **AMORIM CA**. AlPc/ZnPc-based oncological photodynamic therapy for a selective eradication of leukemia cells from ovarian tissue. *Photodiagnosis Photodyn Ther*, 36:102555, 2021.
18. JALALVANDI E, JAFARI H, **AMORIM CA**, PETRI DFS, NIE L, SHAVANDI A. Vaginal administration of contraceptives. *Sci Pharm*, 89:3, 2021.
19. MOGHASSEMI S, DADASHZADEH A, AZEVEDO RB, FERON O, **AMORIM CA**. Photodynamic cancer therapy using liposomes as an advanced vesicular photosensitizer delivery system. *J Control Release*, 339:75-90, 2021.
20. MASCIANGELO R, CHITI MC, CAMBONI A, **AMORIM CA**, DONNEZ J, DOLMANS MM. Mitochondrial content, activity, and morphology in prepubertal and adult human ovaries. *J Assist Reprod Genet*, 38:2581-2590, 2021.
21. OUNI E, PEAUCELLE A, HAAS KT, VAN KERK O, DOLMANS MM, TUURI T, OTALA M, **AMORIM CA**. A blueprint of the topology and mechanics of the human ovary for next-generation bioengineering and diagnosis. *Nat Commun*, 12:5603, 2021.
22. MASSAROTTI C, KOHLHEPP F, LIPERIS G, AMMAR OF, MINCHEVA MN, ALI ZE, **AMORIM CA**, ANDERSON R, FRAIRE-ZAMORA JJ. #ESHREjc report: is OTO-IVM the future fertility preservation alternative for urgent cancer patients? *Hum Reprod*, 36(9):2631-2633, 2021.
23. DADASHZADEH A, MOGHASSEMI S, SHAVANDI A, **AMORIM CA**. A review on biomaterials for ovarian tissue engineering. *Acta Biomater*, 2021S1742-7061(21)00552-3, 2021.
24. JAFARI H, DADASHZADEH A, MOGHASSEMI S, ZAHEDI P, **AMORIM CA**, SHAVANDI A. Ovarian cell encapsulation in an enzymatically crosslinked silk-based hydrogel with tunable mechanical properties. *Gels*, 7(3):138, 2021.

25. BAZRAFKAN M, HOSSEINI E, NAZARI M, **AMORIM CA**, SADEGHI R. NLRP3 inflammasome: a common, potential therapeutic target in both COVID-19 and fertility problems. *J Reprod Immunol*, 148:103427, 2021.
26. PRACTICE COMMITTEE OF THE ONCOFERTILITY CONSORTIUM. Installing oncofertility programs for common cancers in optimum resource settings (Repro-Can-OPEN Study Part II): a committee opinion. *J Assist Reprod Genet*, 38(1):163-176, 2021.
27. VILELA JMV, DOLMANS MM, **AMORIM CA**. Ovarian tissue transportation: a systematic review. *Reprod Biomed Online*, 42(2):351-365, 2021.
28. ASIABI P, DAVID C, CAMBONI A, MARBAIX E, DOLMANS MM, **AMORIM CA**. New insights into the GDF9-Hedgehog-Gli signalling pathway in human ovaries: from fetus to postmenopause. *J Assist Reprod Genet*, 38(6):1387-1403, 2021.
29. VILELA JMV, DOLMANS MM, MARUHASHI E, BLACKMAN MCNM, SONVEAU P, MIRANDA-VILELA AL, **AMORIM CA**. Evidence of metabolic activity during low-temperature ovarian tissue preservation in different media. *J Assist Reprod Genet*, 37(10):2477-2486, 2020.
30. MASCIANGELO R, CHITI MC, PHILIPPART C, **AMORIM CA**, DONNEZ J, CAMBONI A, DOLMANS MM. Follicle populations and vascularization in ovarian tissue of pediatric patients before and after long-term grafting. *Fertil Steril*, 114(6):1330-1338, 2020.
31. ASIABI P, AMBROISE P, GIACHINI C, COCCIA ME, BEARZATTO B, CHITI MC, DOLMANS MM, **AMORIM CA**. Assessing and validating housekeeping genes in normal, cancerous, and polycystic human ovaries. *J Assist Reprod Genet*, 37(10):2545-2553, 2020.
32. OUNI E, BOUZIN C, DOLMANS MM, MARBAIX E, PYR DIT RUYS S, VERTOMMEN D, **AMORIM CA**. Spatiotemporal changes in mechanical matrix components of the human ovary from prepuberty to menopause. *Hum Reprod*, 35:1391-1410, 2020.
33. OUNI E, RUYS SPD, DOLMANS MM, HERINCKX G, VERTOMMEN D, **AMORIM CA**. Divide-and-conquer matrix protein (DC-MaP) strategy: an MS-friendly approach to proteomic matrix characterization. *Int J Mol Sci*, 21(23):9141, 2020.
34. ASIABI P, DOLMANS MM, AMBROISE J, CAMBONI A, **AMORIM CA**. In vitro differentiation of theca cells from ovarian cells isolated from postmenopausal ovaries. *Hum Reprod*, 35(12):2793-2807, 2020.
35. CACCIATOLA L, NGUYEN TYT, CHITI MC, CAMBONI A, **AMORIM CA**, DONNEZ J, DOLMANS MM. Long-term advantages of ovarian reserve maintenance and follicle development using adipose tissue-derived stem cells in ovarian tissue transplantation. *J Clin Med*, 9(9):2980, 2020.
36. RIVAS LEONEL EC, CAMPOS SGP, BEDOLO CM, GUERRA LHA, VILAMAIOR PSL, CALMON MF, RAHAL P, **AMORIM CA**, TABOGA SR. Perinatal exposure to bisphenol A impacts in the mammary gland morphology of adult Mongolian gerbils. *Exp Mol Pathol*, 113:104374, 2020.
37. RIVAS LEONEL EC, CAMPOS SGP, GUERRA LHA, BEDOLO CM, VILAMAIOR PSL, CALMON MF, RAHAL P, **AMORIM CA**, TABOGA SR. Impact of perinatal bisphenol A and 17 β estradiol exposure: comparing hormone receptor response. *Ecotoxicol Environ Saf*, 188:109918, 2020.
38. MASCIANGELO R, HOSSAY C, CHITI MC, MANAVELLA DD, **AMORIM CA**, DONNEZ J, DOLMANS MM. Role of the PI3K and hippo pathways in follicle activation after grafting of human ovarian tissue. *J Assist Reprod Genet*, 37:101-108, 2020.
39. ASIABI P, LEONEL ECR, MARBAIX E, DOLMANS MM, **AMORIM CA**. Immunodetection and quantification of enzymatic markers in theca cells: the early process of ovarian steroidogenesis. *Biol Reprod*, 102:145-155, 2020.

40. ASIABI P, CHITI MC, **AMORIM CA**. Isolation and characterization of the human ovarian cell population for transplantation into an artificial ovary. *Anim Reprod*, 16:39-44, 2020.
41. DOLMANS MM, **AMORIM CA**. Construction and use of artificial ovaries. *Reproduction*, 158:F15-F25, 2019.
42. RIVAS LEONEL EC, CORRAL A, RISCO R, CAMBONI A, TABOGA SR, KILBRIGE P, VAZQUEZ M, MORRIS J, DOLMANS MM, **AMORIM CA**. Stepped vitrification technique for human ovarian tissue cryopreservation. *Sci Rep*, 9:20008, 2019.
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