

RBMO Digest March 2022

Introduction

We are pleased to start the new year by welcoming five new section editors who have joined us in recent months. **Esther Baart** (pictured) and Maurizi Zuccotti join our Experimental Reproductive Biology team, and Nicolas Garrido, Darren Griffin, and Phil Matson expand our Male reproductive health and fertility section.

We are delighted with the reception that our first full year of RTS section has received, with a great response from readers to many of the articles published, and increasing submissions of every article type. We have continued to advance our progressive approach and experimentation, with our first CounterCurrent contributions articles, on topics including advanced, and automated ART laboratory systems and simultaneous transfer of multiple embryos.



RBMO Live

Last year saw the hugely successful launch of our quarterly webinar series, RBMO Live in collaboration with the International IVF Initiative (i3); reaching thousands of viewers with presentations of papers and topics from our journal. Our first episode of 2022 was held on 1st March, highlighting advances and controversial perspectives on developing Lab Tech, hosted by Bart Fauser and Mina Alikani with David Gardner, Marcos Meseguer, Lorena Bori Arnal, Romulado Sciorio, and Ana Pereira Daoud. A recording of the full session is available on the [i3 website](#)

The next episode will be Tuesday 7th June, themed around our Reproduction, Technology and Society section. Keep an eye on the RBMO [Twitter](#) and [LinkedIn](#) accounts for news and updates.



Editorials

Our recently published Editorials, from Chief Editor, Bart Fauser, our RBMO Editors and Section Editors.

Protecting data integrity in reproductive medicine

Bart Fauser

Reflections by our Chief Editor on the rising incidences of ethical misconduct that journals must manage, in cases across the publication spectrum from new submissions to historical cases coming to light, at all levels of academic experience. He calls for communities to join forces and create an effective, transparent research and publications system, where support can be provided to help editors detect, correct, and manage cases as soon as possible.

Future challenges for clinical embryologists

Laura Rienzi & Bart Fauser

With this editorial, our editors encourages embryologists worldwide to keep pace with progress in medicine and other relevant areas, empowering them to carry out their role effectively and to properly serve the interest of patients.

Hot topics

Our Editors Richard Anderson and Mina Alikani select their hot topic articles from recently accepted papers, highlighting developments and progress across reproductive biomedicine.

Artificial intelligence in the embryology laboratory: a review

Dimitriadis et al.

The speed of growth of AI in the human embryology laboratory is challenging. This review not only decodes the terminology, which is useful to most of us, it also covers the specific areas in which AI and automation have made or are expected to make a difference. A must read for all ART practitioners!

Low serum progesterone affects live birth rate in cryopreserved blastocyst transfer cycles using hormone replacement therapy

Santulli et al.

Do you need to know the serum progesterone level in the luteal phase after embryo transfer? This observational study adds to the evidence of lower LBR in women with lower progesterone levels at ET, despite standard dose administration. Time for routine monitoring and dose adjustment as necessary at this critical point in the IVF pathway?

Comparison of Fresh and Frozen Ejaculated Sperm in Sibling Oocyte Recipient Cycles

Spandorfer et al.

Using a split oocyte donation model, the authors demonstrate increased pregnancy loss and lower live birth rate with the use of frozen sperm – either donor or partner. Sperm cryopreservation has been used for decades, but it seems that it is far from optimised.

Treatment of symptomatic uterine adenomyosis with linzagolix, an oral gonadotropin-releasing hormone receptor antagonist: a pilot study

Donnez et al.

New oral GnRH antagonists are entering clinical practice. Here a once daily administration of linzagolix for 12 weeks to women with adenomyosis reduced clinical symptoms and uterine volume-

but with loss of bone density and vasomotor side-effects. Can this be optimised for long-term therapy without these problems?

Editor's Choice

A microenvironment of high lactate and low pH created by the blastocyst promotes endometrial receptivity and implantation

Gurner et al.

Is oxytocin receptor antagonist administration around embryo transfer associated with IVF treatment success? A systematic review and meta-analysis

Neumann & Griesinger

Comparison of methods for isolation and quantification of circulating cell-free DNA from patients with endometriosis

Huebner et al.

Clinical outcomes and utilization from over a decade of planned oocyte cryopreservation

Leung et al.

IVF impact on the risk of recurrence of endometrial adenocarcinoma after fertility-sparing management

Vaugon et al.

Reviews

All Review articles published in RBMO are made free to read on publication, to support access to current knowledge and enhance the skills of researchers, clinicians and reproductive biomedical professionals around the world.

Oocyte vitrification for elective fertility preservation: a SWOT analysis

Gil-Arribas et al

Non-invasive PGT-A: An update

Navarro-Sánchez et al.

Co-treatment with letrozole during ovarian stimulation for IVF/ICSI – a systematic review and meta-analysis

Søderhamn Bülow et al.

Decisional needs of patients considering preimplantation genetic testing: a systematic review

Cheng et al.

Targeted Cancer Therapy and Fertility: The Impact of Immunotherapy and Small Molecule Inhibitors on the Female Reproductive System

Bussies et al.

Uterine fibroid vascularization: from morphological evidence to clinical implications

Ciarmela et al.

Featured Section

Male Reproductive Health and Fertility Section Editor
Nicolás Garrido
IVI Foundation

“The **Male reproductive health and fertility** of RBMO is constantly evolving and increasing its contribution to the overall knowledge in the field of fertility, infertility, their diagnosis and treatment.

The old perspective, where the male was simply a static provider of the male gamete, is outdated.

Now, the relevance of the male factor on a couple’s fertility, and the impact of a good diagnosis and the selection of the most appropriate way to manage and treat the male or selecting the spermatozoa, is a matter of study and development, due to its enormous potential to contribute to reproductive success.”



Recent highlights from our Male Reproductive Health and Fertility Section:

Attitudes of sperm donors towards offspring, identity release and extended genetic screening
Pennings et al.

Male fertility as a marker for health
Chen et al.

Assessing the testicular sperm microbiome: a low-biomass site with abundant contamination
Molina et al.

Comparison of Fresh and Frozen Ejaculated Sperm in Sibling Oocyte Recipient Cycles
McCarter et al.

Birth characteristics in men with infertility
Liffner et al.

Age-related changes in human conventional semen parameters and sperm chromatin structure assay-defined sperm DNA/ chromatin integrity
Gao et al.

Editor in Chief

Prof. Bart Fauser
University of Utrecht

Section Editors

Dr. Erma Drobniš
University of Missouri-Columbia

Dr. Nicolas Garrido
Instituto Universitario IVI

Prof. Darren Griffin
University of Kent

Prof. Phil Matson
Edith Cowan University

Prof. Pierre Ray
CHU de Grenoble

Dr. Denny Sakkas
Boston IVF

A section of RBMO focussing on male reproductive health, infertility, spermatogenesis, semen assessments, surgical treatment, fertility preservation, genetics and epigenetics, contraception.

Read the latest research, reviews and find submission guidelines at www.rbmojournal.com
Follow us on [Twitter](#) and [LinkedIn](#)

Make an impact with your next paper by publishing in RBMO.

You can find out more about RBMO and submit your manuscript on the journal homepage.

We look forward to receiving your submission!

[Submit to RBMO](#)