

# human reproduction

Volume 33, Number 12, December 2018

<https://academic.oup.com/humrep>

## EDITORIAL

Human Reproduction's greatest hits

J.L.H. (Hans) Evers

2159

## MINI-REVIEW

### Developments in Reproductive Biology and Medicine

Non-invasive pre-implantation genetic testing of human embryos: an emerging concept

C. Farra, F. Choucair, and J. Awwad

2162

## ORIGINAL ARTICLES

### Andrology

Serum chemerin levels are negatively associated with male fertility and reproductive hormones

Johannes Bobjer, Marianna Katrinaki, Erini Dermitzaki, Andrew N. Margioris, Aleksander Giwercman, and Christos Tsatsanis

2168

Antimicrobial peptide LL-37 and its truncated forms, GI-20 and GF-17, exert spermicidal effects and microbicidal activity against *Neisseria gonorrhoeae*

Wongsakorn Kiattiburut, Ruina Zhi, Seung Gee Lee, Alexander C. Foo, Duane R. Hickling, Jeffrey W. Keillor, Natalie K. Goto, Weihua Li, Wayne Conlan, Jonathan B. Angel, Guangshun Wang, and Nongnuj Tanphaichitr

2175

### Early pregnancy

Differential microRNA expression between decidual and peripheral blood natural killer cells in early pregnancy

C. Carlino, M.R. Rippo, R. Lazzarini, V. Monsurò, S. Morrone, S. Angelini, E. Trotta, H. Stabile, C. Bastianelli, M.C. Albertini, F. Olivieri, A. Procopio, A. Santoni, and A. Gismondi

2184

### Embryology

Types and frequency of non-conformances in an IVF laboratory

Denny Sakkas, C. Brent Barrett, and Michael M. Alper

2196

### Gynaecology

Assessment of ovarian reserve after cystectomy versus 'one-step' laser vaporization in the treatment of ovarian endometrioma: a small randomized clinical trial

M. Candiani, J. Ottolina, E. Posadzka, S. Ferrari, L. M. Castellano, I. Tandoi, L. Pagliardini, A. Nocuñ, and R. Jach

2205

(continued overleaf)

## Infertility

Oral dydrogesterone versus intravaginal micronized progesterone gel for luteal phase support in IVF: a randomized clinical trial

Elective and Onco-fertility preservation: factors related to IVF outcomes

Fallopian tube perfusion in *ex-vivo* and *in-vivo* laparoscopic hysterectomy specimens: potential application for uterine transplantation

Vaginal bioelectrical impedance determines uterine receptivity in mice

Donor spermatogenesis in *de novo* formed seminiferous tubules from transplanted testicular cells in rhesus monkey testis

Genome-wide differential methylation analyses identifies methylation signatures of male infertility

External validation of a dynamic prediction model for repeated predictions of natural conception over time

## Reproductive biology

A simple method to quantify follicle survival in cryopreserved human ovarian tissue

Glucocorticoid exposure affects female fertility by exerting its effect on the uterus but not on the oocyte: lessons from a hypercortisolism mouse model

## Reproductive epidemiology

IVF success corrected for drop-out: use of inverse probability weighting

## Reproductive genetics

Genome-wide haplotyping embryos developing from OPN and 1PN zygotes increases transferrable embryos in PGT-M

Georg Griesinger, Christophe Blockeel, Gennady T. Sukhikh, Ameet Patki, Bharati Dhorepatil, Dong-Zi Yang, Zi-Jiang Chen, Elke Kahler, Claire Pexman-Fieth, and Herman Tournaye 2212

A. Cobo, J. García-Velasco, J. Domingo, A. Pellicer, and J. Remohí 2222

Sara Farag, Pamela Frazzini Padilla, Katherine A. Smith, Rebecca Flyckt, Michael L. Sprague, and Stephen E. Zimberg 2232

Hitomi Nakamura, Takayoshi Hosono, Keiichi Kumasawa, Carolyn J.P. Jones, John D. Aplin, and Tadashi Kimura 2241

Gunapala Shetty, Jennifer M. Mitchell, Truong Nguyen Anh Lam, Zhuang Wu, Jie Zhang, Lorraine Hill, Ramesh C. Tailor, Karen A. Peters, Maria Cecilia Penedo, Kyle E. Orwig, and Marvin L. Meistrich 2249

Kumar Mohanty Sujit, Saumya Sarkar, Vertika Singh, Rajesh Pandey, Neeraj Kumar Agrawal, Sameer Trivedi, Kiran Singh, Gopal Gupta, and Singh Rajender 2256

R. van Eekelen, D.J. McLernon, M. van Wely, M.J. Eijkemans, S. Bhattacharya, F. van der Veen, and N. van Geloven 2268

S.G. Kristensen, Q. Liu, L.S. Mamsen, T. Greve, S.E. Pors, A.B. Bjørn, E. Ernst, K.T. Macklon, and C.Y. Andersen 2276

Qian-Nan Li, Li Li, Guanmei Hou, Zhen-Bo Wang, Yi Hou, Zhong-Hua Liu, Heide Schatten, and Qing-Yuan Sun 2285

Anna M. Modest, Lauren A. Wise, Matthew P. Fox, Jennifer Weuve, Alan S. Penzias, and Michele R. Hacker 2295

Aspasia Destouni, Eftychia Dimitriadou, Heleen Masset, Sophie Debrock, Cindy Melotte, Kris Van Den Bogaert, Masoud Zamani Esteki, Jia Ding, Thiery Voet, Ellen Denayer, Thomy de Ravel, Eric Legius, Christel Meuleman, Karen Peeraer, and Joris R. Vermeesch 2302

# LETTERS TO THE EDITOR

Low as well as high serum P4 levels in the early and mid-luteal phase reduce the chance of a live birth following IVF treatment with fresh embryo transfer: where is the evidence?

C.A Venetis, B.W. Mol, and E.M. Kolibianakis 2312

Reply: Low as well as high serum P4 levels in the early and mid-luteal phase reduce the chance of a live birth following IVF treatment with fresh embryo transfer

Lise Haaber Thomsen, Ulrik Schioler Kesmodel, Claus Yding Andersen, and Peter Humaidan 2313

## EDITORIAL

Human Reproduction

## MINI-REVIEW

### Developments in Reproductive Biology and Medicine

ORIGINAL ARTICLES

### Andrology

2376 S.G. Kizilman, O. Ak, I.S. Altun, E. Gurel, S. Haktanir, S. Kizilman, A.B. Bjon, E. Ernst, K.T. Markon, and G.Y. Aydin: Androgen levels in...

2382 Qiang-Nan Li, Li Li, Guannan Hou, Zhen-Bo Wang, Yi-Hong Zhang, Hui-Hua He, and Yi-Hong Zhang: The effect of...

2392 Anna M. Modest, Lauren A. Wise, Matthew P. Fox, Jennifer Wauve, Alan S. Penzias, and Michele R. Haberman: Early pregnancy loss...

### Embryology

2302 Christel Meulenbelt, Karen Peeters, and Joris R. Vermeesch: Types of...

### Gynaecology

Assessment of ovarian reserve after cystectomy versus 'one-step' laser vaporization in the treatment of endometriosis: a small randomized clinical trial

Vaginal bioelectrical impedance determines uterine receptivity in mice 2159

Donor spermatogenesis in de novo formed seminiferous tubules from transplanted testicular cells in rhesus monkey testis 2162

Genome-wide differential methylation analysis identifies methylation signatures of male infertility 2162

External validation of a dynamic prediction model for repeated pregnancies of natural conception over time 2162

### Reproductive biology

812A simple method to quantify follicle number in cryopreserved human ovarian tissue: Al, androgen, and chorionic gonadotropin 2162

2175 Glucocorticoid exposure affects female fertility by exerting its effect on the uterus but not on the oocyte 2175

### Reproductive epidemiology

IVF success corrected for drop-out: use of inverse probability weighting 2184

### Reproductive genetics

2184 Genomic-wide haplotyping embryos developed from OPN and FPN X-genes increases transmissible embryos in PGT-M 2184

2196

2205