

Endometrial receptivity revisited: Endometrial transcriptome adjusted for tissue cellular heterogeneity

The estimated average proportions of stromal and epithelial cells in early secretory phase were 65% and 35%, and during mid-secretory phase, 46% and 54%, respectively, correlating well with the results of histological evaluation ($r = 0.88$, $P = 1.1 \times 10^{-6}$). Endometrial tissue transcriptomic analysis showed that approximately 26% of transcripts ($n = 946$) differentially expressed in receptive endometrium in cell-type unadjusted analysis also remain differentially expressed after adjustment for biopsy cellular composition. However, the other 74% ($n = 2645$) become statistically non-significant after adjustment for biopsy cellular composition, underlining the impact of tissue heterogeneity on differential expression analysis. The results suggest new mechanisms involved in endometrial maturation, involving genes like LINC01320, SLC8A1 and GGTA1P, described for the first time in context of endometrial receptivity.

<https://academic.oup.com/humrep/article/33/11/2074/5123535#supplementary-data>

**Message from desk of:
Dr. Rishma Dhillon Pai**

Dear Colleagues,
We are happy to bring to you the 4th issue of, 'ISAR BUZZ'. ISAR is growing rapidly. Four new chapters have been recently added – the states of Himachal Pradesh, Uttarakhand, Jammu and Kashmir and the Union territory of Chandigarh. This completes 23 chapters of ISAR. We had 2nd round of successful FIST – Fertility Improving Surgical Techniques workshops with hands on training at Mumbai and Chennai. SAR Certificate course in association with Bloom IVF Centre was held at Gurugram, Mumbai and Chandigarh with live relay of ART procedures and hands on training on simulators. These were much appreciated.
"Learning is not compulsory... neither is survival"
~W. Edwards Deming



Dr. Rishma Dhillon Pai

President



Dr. A. Suresh Kumar

Hon. Librarian

**Message from desk of :
Dr. A Suresh Kumar**

Dear ISARians,
Multi Foetal pregnancy is one of the complication of assisted reproductive technologies Treatment. According to WHO the European Parents Org. named 17th Nov as "WORLD PREMATURITY DAY" in 2008 which is world widely celebrated every year since 2011. The prematurity problem might solve only if a strict guideline will be followed for single embryo transfer to be done by every Infertility specialist.

I wish everyone A Very Happy New Year ahead. Wishes/feedback/suggestions are warmly welcome.

Future Events

**24th National Annual Conference of ISAR
1st-3rd March 2019, Mumbai**

please visit our website : www.isarindia.net

