

ICMR International Travel Support for Non-ICMR Scientist

No. 3/2/TG-48(9)/HRD-2013

- ❖ **Name & Designation** : **Ms. Meera Krishna B, Ph.D. Student.**
- ❖ **Address** : **Utero-embryo Repromics, Molecular Reproduction Division, RGCB, Thycarud P.O., Thiruvananthapuram-695014**
- ❖ **Name of the International Conference/ Seminar/Symposium/Workshop** : **16th World Congress on Gynecology and Endocrinology (ISGE)-2014**
- ❖ **Title of the abstract accepted** : **An integrative mRNA -Transcription factor analysis reveals important genes Hallmarks.**
- ❖ **Date & Venue** : **5-8th March, 2014. Florence, Italy.**
- ❖ **Money sanctioned** : **Rs 82,790/-**
- ❖ **Money reimbursed** : **Rs 86,515/- (Due to hike the fare of air travel an additional Rs.3,725/- were sanctioned)**

Participation Report

The Congress was organised by International Society for Gynaecological Endocrinology (ISGE). Preceded by a pre congress course on “Estrogen receptors ligands and their effects”, the congress started with an opening symposium devoted to the Hormonal Contraception and an opening lecture on HRT. The conference had 1886 participants from all over the world. It was conducted in 5 different halls. The sessions were on contraception, endometriosis,

gynaecologic oncology, menopause, PCOS, infertility and pregnancy. It presented 31 Plenary Sessions, 10 Plenary Lectures, 4 Meet the Experts, 10 Oral presentation sessions, 1 Teaching Course, 6 Sponsored Symposia, 1 poster session. There were 353 poster presentations and 96 oral presentations.

Academic Highlights

The main sessions were included on new contraceptive methods, endometriosis, gynaecologic oncology, menopause, PCOS, infertility and pregnancy.

New developments presented at the conference

The below mentioned are key new developments in female reproductive biology as discussed at ISGE 2014.

- Effect of Hormone Replacement Therapy (HRT) on relieving CVD risk in post menopausal women.
- Superiority of non hormonal contraceptives such as implants and IUDs on female contraception.
- Involvement of novel miRNAs in endometriosis.
- Effects of testosterone and estrogen treatment on the serotonin system in the brain of postmenopausal women.
- Utility of biomarkers as prognostic indicators of preeclampsia.
- New surgical treatments for ovarian cancer
- The existence of Oocyte-producing stem cells in adult human ovaries.
- Endometrial reconstruction from Stem cells.
- New improved techniques as In Vivo Maturation and In Vitro Maturation of oocytes.

INDIAN COUNCIL OF MEDICAL RESEARCH

DIVISION OF MANPOWER DEVELOPMENT

**REPORT OF PARTICIPATION IN INTERNATIONAL TRAINING/WORKSHOPS
BY SCIENTISTS SUPPORTED BY MANPOWER DEVELOPMENT DIVISION,
INDIAN COUNCIL OF MEDICAL RESEARCH (ICMR) SUPPORT SCHEME**

**ICMR commitment letter no&
date and sanctioned money**

**: 3/2/TG-48/HRD-2014(9)
82,790 INR**

- 1) Name and designation** : **Meera Krishna B. Ph D scholar**
- 2) Full Address of the Univ/Inst with Dept** : **Utero –embryo Repromics Lab,
Molecular Reproduction Unit,
Rajiv Gandhi Centre for
Biotechnology (RGCB),
Thiruvananthapuram,
Kerala. Pin-695014.**
- 3) Name of the international conference** : **16th World congress of
Gynecological Endocrinology ,
(ISGE-2014).**
- 4) Venue and Date** : **Florence, Italy. 5-8th March, 2014.**
- 5) Award Letter/Acceptance Letter** : **Enclosed**
- 6) Participation Certificate and
copy of presented
paper in the proceedings/abstract book** : **Enclosed**

7) Participation Report

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- Clinical development program of ospemifene, a tissue selective estrogen agonist/antagonist approved by the Food and Drug Administration (FDA) for the treatment of dyspareunia in postmenopausal women.
- Efficacy of D-CHIRO-INOSITOL in treatment of PCOS to improve ovarian function and metabolic factors.
- Role of Antisperm antibodies in PCOS.

New developments resulting from the conference

The conference had made consensus on development of new safer and effective contraceptive methods. HRT will be moving as a prime treatment in post menopausal women. In vivo maturation (IVM) of oocytes will be developed as it is more cost effective and superior than IVF. Stem cell based therapies can be will be popularised in ovarian cancer and Asherman's syndrome and thin endometrium. Many medicines as D-CHIRO-INOSITOL and ospemifene under clinical trial will get excellent scientific approval and in turn in public also.

8. Participant's Contribution to the training /Workshops (100 words)

I presented a paper entitled "An Integrative mRNA-Transcription Factor Analysis Reveals Important PCOS Hallmarks". In the study we have tried to correlate the mRNA expression profiling data to the functional pathway oriented network through bioinformatic approach. One major thrust of the conference was development of circulating biomarkers for PCOS diagnosis. Since our study was performed in human blood, it has proven to very significant. The paper comprised data of whole transcriptome changes occurring under PCOS condition and how we can corroborate that to PCOS pathogenesis. Discussions with other experts also proven to be very fruitful as it will make an open platform improving the global research.