

# Dr. Alex C Varghese

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## **Educational Qualifications:**

Alex received his BSc in zoology from MG University in 1991 and MSc in Microbiology in 1993. He received his PhD from University of Calcutta in 2005 for his thesis entitled: A study on human gametes and embryos used in assisted reproduction with emphasis on cryopreservation/vitrification (the thesis has been selected by Lambert Publishing group, Germany to be published as a book)

## **Recent Affiliation: Sr. Embryologist, Montreal Reproductive centre, Montreal, Canada**

**Current Affiliation** (Since August 2012): Chief Embryologist, ISADOS fertility clinic, Kolkata, Visiting Embryologist to Dispur Polyclinic, Guwahaty, Assam, Mediland clinic, Silchar, Assam, IVF centers in Bhagalpur and Sambalpur, Orissa

## **Professional Experiences:**

1. **Senior Embryologist**, Montreal Reproductive Centre, Montreal, QC, Canada (Since October 2011-July 2012) (led by Prof. S.L. Tan- The founding director of London women's clinic & McGill University IVF program)
2. **Scientific Director & Chief Embryologist**- Fertility Clinic & IVF Div, AMRI Medical Centre, Kolkata, India (September 2008-Sept 2011)  
[http://amrihospital.com/clinic/ivf\\_centre/index.php](http://amrihospital.com/clinic/ivf_centre/index.php)
3. **Post Doctoral Research Fellow**, Center for Reproductive Medicine, Cleveland Clinic Foundation, Ohio, USA. (2007-8)
4. **Director- Research & Development**: Molecular Research & Investigation Center, Kolkata, India (2006)
5. **Visiting embryologist** to SRIJAN-Centre for Human reproduction, Patna, ICRC, Dhaka (2002-2006) & Senior research fellow, University of Calcutta
6. **Chief Embryologist**, SRIJAN-Centre for Human Reproduction, Patna, India (1 st February 1999-31<sup>st</sup> January 2002)
7. **Embryologist**: Center for Infertility Management & Assisted Reproduction, Edappal Hospitals, Kerala, India (12 th Dec. 1997 to 3<sup>rd</sup> Dec. 1998 )
8. **Research Fellow**: Chittaranjan National Cancer Institute, Kolkata, India ( 1995-1996)
9. **Research Fellow**: Bose Institute, (1993)

Clinical embryology consultant since 1997 to the following centers in Patna, Kerala, Ranchi,

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Tinsukia, Silchar, Guwahaty, Dispur, Dhaka

## Special Achievements:

- First Vitrification pregnancy in Eastern India
- First IVF pregnancy in Bihar (2002)- SRIJAN, Patna
- Organized the first ICSI hands-on workshop in India (2004 at University of Calcutta)
- Selected to International Who's Who Biographical Society in 2011
- [Founder of Lifeinvitro.com](http://Lifeinvitro.com), the knowledge based website in IVF which is popular in 160 Countries
- Special Training: Embryonic Stem Cell Culture: Reliance Life Sciences, Mumbai, India (March 2007), PGD training, August 2010, Reliance Life Sciences

### ***Research grant co-investigator-***

EFFECT OF HEAVY METALS AND PESTICIDES ON MALE FERTILITY AND TESTICULAR CARCINOMA IN SITU: RESVERATROL, COENZYME Q10 TARGETING THE THERAPEUTIC MACHINERY OF PRE-CANCEROUS CELLULAR CONDITION- Dept of Biotechnology, Govt. of India (2012) Grant Amount US\$-100,000

## Research publications:

1. Varghese AC, Goldberg E, Bhattacharyya AK, Agarwal A (2007) Emerging technologies for the molecular study of infertility, and potential clinical applications, Reproductive Biomedicine Online 15, 4, 451-456.
2. Varghese AC, Goldberg E and Agarwal A (2007) Current and future perspectives on intracytoplasmic sperm injection (ICSI): A critical commentary Reproductive Biomedicine Online 15, 6, 719-727.
3. Varghese AC, Sinha B, Bhattacharyya AK, New frontiers in the evaluation of sperm function, in vitro selection and manipulation of male gametes for assisted conception, Indian Journal of Experimental Biology, 43, November, 2005, pp.1023-1031
4. Varghese AC, Stefen du Plessis, Agarwal A (2008) Male Gamete Survival at Stake- causes and solutions, Reproductive Biomedicine Online, 17 (6), 866-880.
5. Varghese AC, Bragais FM, Mukhopadhyay D, Kundu S, Pal M, Bhattacharyya AK, Agarwal A (2009) Human sperm DNA integrity in normal and abnormal semen samples and its correlation with sperm quality. Andrologia, 41, 207-15.

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6. Bhattacharya, S.M., Mukhopadhyay, D., Varghese, A.C., Kundu, S., Bhattacharyya, A.K. How does oxidative stress affect human sperm function? *Embryo Talk*, vol. 1 (2006)
7. Makker K, Varghese AC, Murandi R, Desai N and Agarwal A (2009) Cell phone usage-Modern man's nemesis, *RBM online*, 18, 148-157.
8. Alex C Varghese, Stephen du Plessis, Tomasso Falcone , Ashok Agarwal (2008) Cryopreservation of ovarian tissues and in vitro follicle culture: challenges for fertility preservation *Reproductive Biology & Endocrinology*, 6, 47
9. Alex C Varghese, Peter Nagy and Agarwal A (2009) Current trends, biological foundations and future prospects of human oocyte and embryo cryopreservation *RBM Online* 19 (1) 126-40
10. Agarwal A, Desai N, Makker K, Varghese A and Murandi R (2008) Effect of cell phone radiation on sperm function, ROS and DNA integrity: an in vitro study. *Fertility and Sterility*, doi:10.1016/j.fertnstert.2008.08.022
11. Varghese AC, Amir Arsalan and Agarwal A (2009) An update on developments and future prospects of ICSI. *Arch Med Sci* 2009; 5, 1A: S109–S114
12. Dyutiman Mukhopadhyay, Parag Nandi, , Alex C. Varghese,, Rohit Gutgutia, , Samir Banerjee, , Asok K. Bhattacharyya (2008) The in-vitro effect of benzo-a-pyrene on human sperm hyperactivation and acrosome reaction. *Fertility & Sterility* (doi:10.1016/j.fertnstert.2009.02.031
13. Dyutiman Mukhopadhyay, Alex C Varghese, Furquan Pathan, Shukla Kundu, Manisha Pal, Parag Nandi, Samir Banerjee and Asok K Bhattacharyya (2008) Effect of age on semen parameters as observed in 2329 men attending an andrology lab in an Indian city. *Human Fertility* (communicated)
14. Kathelene O'Brian, Varghese AC, Agarwal A (2010) Advances in genetics of male infertility. *Fertility & Sterility* , Jan, (93)3; 1-12
15. Mukhopadhyay D, Mitra A, Nandi P, Varghese AC, Murmu N, Chowdhury R, Chaudhuri K and Bhattacharyya AK. (2009) Expression of Metallothionein-1 (MT-1) mRNA in the rat testes and liver after Cadmium injection. *Syst Biol Reprod Med* ;55(5-6):188-92
16. Mukhopadhyay D, Alex C. Varghese, Manisha Pal, Sudip K. Banerjee, Asok K. Bhattacharyya, Rakesh K. Sharma and Ashok Agarwal, (2009) Semen quality and age-specific changes: A study between two decades on 3729 male partners of couples with normal sperm count and attending an andrology laboratory for infertility-related problems in an Indian city. *Fertility and Sterility* (doi:10.1016/j.fertnstert.2009.01.135 In press)
17. D. Mukhopadhyay, A. C. Varghese, P. Nandi, S. K. Banerjee & A. K. Bhattacharyya CASA-based sperm kinematics of environmental risk factor-exposed human semen samples designated as normozoospermic in conventional analysis, *Andrologia*. 2010 Aug;42(4):242-6.

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18. [Varghese AC](#), Kim Ly, Corbin C, Mendiola J and Agarwal A (2010) Oocyte development competence and embryo development: Impact of lifestyle and environment and risk factors, *RBM Online* 22 (5) 410-420, doi:10.1016/j.rbmo.2010.11.009
19. Sandro C Esteves, [Alex C Varghese](#) (2012) Laboratory handling of epididymal and testicular spermatozoa: what can be done to improve sperm injections outcome *J Hum Reprod Sci* (In press)
20. Ayse Seyhan, Baris Ata, Hai Ying Chen, [Alex C. Varghese](#), Alper Mumcu, Seang Lin Tan Fertility Preservation, *Current Obstetrics and Gynecology Reports*, December 2012, Volume 1, Issue 4, pp 182-189
21. Nicolas Garrido, [Alex C Varghese](#), Rocio M Rivera, Marcos Messeguer, OMICS- current and future perspectives in reproductive medicine and technology (In preparation)

## Abstracts in International Meetings:

1. **Varghese A C**, *Bhattacharyya A K, Roy H, Allamaneni S S, Bhattacharyya J, Agarwal A*. A comparative study of nuclear DNA integrity and morphology of human spermatozoa processed by three different methods. ***Fertil Steril*** 82, Sup 2 (2004) S104.
2. *Pal S, Varghese AC, Agarwal A, Bhattacharyya AK*, The effect of temperature and duration of cryopreservation on human sperm characteristics. ***Fertil Steril*** 82; Sup 2 (2004)
3. **Varghese AC**, *Chakraborty D, Bhattacharyya AK. Said TM, Bhattacharya SM, Agarwal A*. Enhancement of human sperm motility by inclusion of acetyl-L-carnitine in processing media ***Fertil Steril*** 84; Sup.1,(2005)S105.
4. *Bhattacharyya AK, Varghese AC, Das S, Biswas A, Mondal M, Agarwal A*. Motion characteristics of frozen-thawed human spermatozoa processed by different methods: a comparative study, ***Fertil Steril*** 84; Sup.1,(2005)S177.
5. **Varghese AC**, *Das S, Bhattacharyya AK, Bhattacharya SM, Mondal M, Agarwal A*. Effect of cryoprotective additives- reduced glutathione, acetyl-L-carnitine on sperm membrane lipid peroxidation, DNA integrity and recovery of motile human sperm ***Fertil Steril*** 84; Sup.1,(2006)S105.
6. *Bhattacharyya, A.K.; Chakraborty, D.; Varghese, A.C.; Bhattacharyya, S.M.; Kundu, S.; Banerjee, A*. Cryopreservation and post-thaw motility, DNA integrity and acrosome status of pre-

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- freeze prepared human semen frozen in different trehalose concentrations. *Hum. Reprod.* 21; *Sup.1,(2006)P-393.*
7. Satyasrini, S.V.; **Varghese, A.C.**; Chakraborty, D.; Kundu, S.; Vasam, B.; Bhattacharyya, A.K. N-acetyl glucosamine and beta glycerophosphate supplementation in cryopreservation media on post thaw sperm functional characteristics. *Hum. Reprod.* 21; *Sup.1,(2006)P-391.*
  8. Vasam, B.; Chakraborty, D.; Satyasrini, V.; **Varghese, A.C.**; Bhattacharya, S.M.; Bhattacharyya, A.K. Dose dependent effect of cryoprotective agents on post thaw human sperm motility, morphology, lipid peroxidation and DNA integrity. *Hum. Reprod.* 21; *Sup.1,(2006)P-390.*
  9. J. Bhattacharya, S. Kundu, **A. C. Varghese**, S. M. Bhattacharya, A. K. Bhattacharyya, A. Agarwal A comparative study on TEST-Yolk buffer and human sperm preservation medium on post thaw characteristics of human sperm from pre-freeze specimens. *Fertil. Steril* 2006; 86, (3)
  10. Bhattacharyya, **A. C.Varghese**, S. M. Bhattacharya, P. Ray, J. Bhattacharya, A. Agarwal A computer assisted sperm motility based study on rapid vs. slow thawing temperatures on human sperm motility parameters. *Fertil. Steril* 2006; 86, (3) S197
  11. C. Damayandi, **A. C. Varghese**, D. Mukhopadhaya, S. M. Bhattacharya, K. Bhattacharyya, A. Agarwal Motility characteristics and DNA integrity of spermatozoa processed with different concentrations of reduced glutathione (GSH) *Fertil. Steril* 2006; 86, (3) S446
  12. Mosammat Begum, David Miller, M A Salam, Ehsam Quadir, **Alex C. Varghese**, Ashok Agarwal Antibiotics and micronutritional blend to enhance fertility potential in men with abnormal semen quality (Accepted for presentation at 64th Annual Meeting of the American Society for Reproductive Medicine)
  13. Sajal Gupta, Reda Mahfouz, **Alex Varghese**, Rakesh Sharma, Edmund Sabanegh, Ashok Agarwal Association of sperm DNA fragmentation with seminal oxidative stress in male factor infertility (Submitted to 64th Annual Meeting of the American Society for Reproductive Medicine)
  14. Israel Maldonado, Alexandra Bermudez, **Alex Varghese**, Jose Gaytan, Rakesh Sharma, Ashok Agarwal Oocyte dysmorphism is not a limiting factor for post-thaw survival following vitrification by cryotop method (Accepted for presentation at 64th Annual Meeting of the American Society for Reproductive Medicine)

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15. Asok Bhattacharya, S Suresh, V Vineetha, Bijoy Sebastian, **Alex Varghese**, Ashok Agarwal  
Antioxidant effects of Triphala, Brahmi and Triphala- Brahmi combination in blood and seminal plasma of high glucose fed rats (Accepted for presentation at 64th Annual Meeting of the American Society for Reproductive Medicine)
16. Parag Nandi, **Alex C Varghese** et al A preliminary study on heavy metals (lead, cadmium and arsenic) in follicular fluid and its effect on oocyte, embryo quality and outcome of ivf treatment (Presented at Annual meeting of ASRM, Orlando 2011)
17. I. Maldonado, **A. Varghese** .E. Cervantes . A Góngora . R Sharma . J. Granja . M.T. Márquez and A. Agarwal . Oocyte morphology quality is not a limiting factor for the survival process on ageing oocytes after vitrification and warming using cryotop method. (Accepted for presentation at ESHRE annual meeting Turkey, 2012)

## Chapters published in Books

1. Alex C Varghese, Damayanti Chakraborty, A. K. Bhattacharyya. Ovarian tissue cryopreservation, chapter in, Kamini Rao (editor): ART Laboratory manual, Jaypee Medical Publishers
2. Agarwal A, Vaghese AC, Sharma R (2009) Markers of oxidative stress and sperm chromatin integrity. In: Molecular Endocrinology-Methods & protocols, Park-Sarge, Ok-Kyong; Curry, Jr., Thomas (Eds.) , Humana Press, Springer- Verlag
3. Makker, K, Varghese, A., Sharma, RK, Agarwal, A. (2008): Interactions between reactive oxygen species and male germ cells. In: Biology of Male Germ Cells (Editors: Hans-Juergen Glander and Uwe Paasch) B, pp 273-310. 4.
4. Varghese, C., Deepinder, F., Chandra, A., Jeat, A., Pathan, F., Agarwal, A. (2010): Anatomy and physiology of male gametogenesis. In: Andrology Laboratory Manual (Editors: Kamini Rao, Agarwal, A, Srinivas M S) Jaypee Brothers Pvt Ltd, New Delhi. Chapter 1, pp 3-9.
5. Kundu, S., Bhattacharya, A., Varghese, A., Chakravarty, B., Agarwal, A. (2010): Sperm- cervical mucus interaction test and its importance in the management of infertility. In: Andrology Laboratory Manual (Editors: Kamini Rao, Agarwal, A, Srinivas M S) Jaypee Brothers Pvt Ltd, New Delhi. Chapter 12, pp 122-126.
6. Varghese, A., Nandi, P., Mahfouz, R., Athayde, K., Agarwal, A. (2010): Human sperm cryopreservation. In: Andrology Laboratory Manual (Editors: Kamini Rao, Agarwal, A, Srinivas M S) Jaypee Brothers Pvt Ltd, New Delhi, Chapter 21, pp 196-208.
7. Athayde, K., Varghese, A., Agarwal, A. (2010): Quality management of the Andrology laboratory. In: Andrology Laboratory Manual (Editors: Kamini Rao, Agarwal, A, Srinivas M S) Jaypee Brothers Pvt Ltd, New Delhi, Chapter 17, pp 165-172.

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8. Varghese, A., Pathan, F., Jeat, A., Agarwal, A. (2010): Semen analysis. In: Andrology Laboratory Manual (Editors: Kamini Rao, Agarwal, A, Srinivas M S) Jaypee Brothers Pvt Ltd, New Delhi. Chapter 11, pp 107-121.
9. Alex C. Varghese, C. Fischer–Hammadeh, and M. E. Hammadeh Acridine Orange Test for Assessment of Human Sperm DNA Integrity in Armand Zini, Agarwal A (edt): Human sperm DNA integrity, Humana Press, Springer- Verlag, USA ( July 2011)
10. Alex C. Varghese, Eulalia Pozo-Guisado, Ignacio S. Alvarez, and Francisco Javier Martin-Romero Extended Embryo Culture Supplementation in Male Infertility: Contemporary Clinical Approaches, Andrology, ART and Antioxidants Editors: Sijo Parekattil and Ashok Agarwal Springer Science + Business Media, LLC, 2012
11. Alex C Varghese, Nicholas Prados (2012) IVF Work stations, In Peter Nagy, Alex Varghese, A. Agarwal (edt) PRACTICAL MANUAL OF IN VITRO FERTILIZATION: Newer methods and novel devices, SPINGER VERLAG, USA
12. Madhab CD, Jayaprakashan K, Sameer Angras, Alex C Varghese (2012) Batch IVF- clinical and laboratory perspectives, In Varghese AC et al (edt) A practical Guide to setting up an IVF lab, embryo culture systems and running the unit..Jaypee Medical Publishers
13. Alpesh Doshi, Sandeep karunakaran, Katy WorriLOW, Alex C Varghese, What makes an IVF lab successful-, In Varghese AC et al (edt) A practical Guide to setting up an IVF lab, embryo culture systems and running the unit..Jaypee Medical Publishers (2012)
14. Alex C Varghese, Seang Lin Tan et al (2012) In vitro maturation of oocytes for fertility preservation and treatment, In Prof John Studd, Prof Seang Lin Tan and Prof. Frank Chervenak (edt) Current Progress in Obstetrics and Gynecology, Kothari Medical Subscription Services (In press)

## Books Edited:

1. PETER NAGY, ALEX C VARGHESE AND ASHOK AGARWAL (Edt) PRACTICAL MANUAL OF IN VITRO FERTILIZATION: Newer methods and novel devices, SPRINGER-VERLAG, USA <http://www.springer.com/medicine/internal/book/978-1-4419-1779-9>
2. ALEX C VARGHESE, PETER SJOBLUM, JAYAPRAKASHAN (Edt) A PRACTICAL GUIDE TO SETTING UP AN IVF LAB, EMBRYO CULTURE SYSTEMS AND RUNNING THE UNIT, JAYPEE MEDICAL PUBLISHERS (in press)
3. ALEX C VARGHESE, SANDRO ESTEVES AND GILES PALMER (EDITORS) A COLOR ATLAS IN VITRO FERTILIZATION LABORATORY SYSTEMS AND STEP BY STEP LABORATORY PROTOCOLS" WITH PRACTICAL STEP BY STEP OF LAB PROCEDURES ON DVD –ROM (JAYPEE MEDICAL PUBLISHERS, IN PREPARATION & EXPECTED RELEASE 2013)
4. ALEX C VARGHESE, STEVEN FLEMING AND JAMES CATT (EDITORS) ORGANIZATION, MANAGEMENT AND QUALITY CONTROL IN TERTIARY LEVEL ART UNITS, INFORMA HEALTHCARE (IN PREPARATION)

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## **Guest Speaker/ Workshops organized:**

1. Laboratory Faculty: National Workshop on Reproductive Biology & Mol. Endocrinology organized by Calcutta University, August 2002.
2. Course Faculty: Workshop on Intracytoplasmic sperm injection and Advanced Andrology conducted by IVF & Infertility Research Center, Oct.2002, Ranchi, India
3. Workshop Director: International Congress on Update in Infertility Management organized by Surya MediTech, Varanasi, India, Dec.2002.
4. Workshop Faculty: Reproductive Biology and Fertility Management under the auspices of Banaras Hindu University, Dec.2003, Varanasi, India.
5. Course Faculty: Workshop on Gamete Micromanipulation, Advanced Andrology, In vitro oocyte maturation & Gamete Cryopreservation: organized by University of Calcutta in collaboration with Institute of Reproductive Medicine, July, 2004, Calcutta, India
6. Workshop Director: Workshop on Andrology/IUI organized by Infertility Care & Research Center, Dhaka, Bangladesh.
7. Oral presentation: ASRM 60<sup>th</sup> Annual Meeting at Philadelphia, USA.
8. Attended lectures on Advances in Andrology, 21 st oct.2004 conducted by Center for Advanced Research in Human reproduction, Infertility, and Sexual Function, Urological Institute, The Cleveland Clinic Foundation, Cleveland, Ohio, USA.
9. Scientific Committee Member of International Conference on Andrology and Assisted Reproduction, Organized by Indian Institute of Sciences, Bangalore and Indian Andrology Forum September16-18, 2005, Bangalore, India
10. Workshop Faculty: Workshop on Clinical Andrology during the Annual meeting of Indian Society for Assisted Reproduction, Bangalore, 2006
11. Oral presentation: ASRM- CFAS 61 st Annual meeting at Montreal, Canada
12. Faculty- Workshop on Micromanipulation of Gametes & Vitrification, Calcutta, 21-25 Th August 2006
13. Faculty- Workshop on IUI & Andrology- Annual meeting of Indian Society for Assisted Reproduction, Pune, Jan 29 th 2009
14. Guest Speaker- "Setting up an IVF Lab & Embryo culture Systems"- Symposium on Recent Trends in Assisted Reproduction, Kolkata, India, 27 th February 2009
15. Guest Speaker- "Role of Micronutrients in male infertility management"- CME organized by Eastern India chapter of RCOG, 11 th July 2009.
16. Guest speaker & Chairperson, Annual meeting of Indian Society for Assisted reproduction, April 9- Cochin, India
17. Guest speaker, Environment & Life style in fertility, organised by Jharkhand Obs, Gyne society, Ranchi, 19th July 2010
18. Guest speaker & Workshop faculty, Symposium on update in Infertility management, Dubai, UAE,



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dec 16-18, 2010

19. Guest speaker, East zone Urology society meeting, 9th April 2011, Cuttack, India

20. Guest speaker, Updates on Infertility, organized by Southend Clinic, New Delhi, at Habitat Centre, New Delhi, August 13-15, 2011

21. Chairperson & Faculty: Thirty Years of Advances in Reproductive Endocrinology and ART: A Celebratory Congress Montreal, Canada, May 27-31, 2011

(<http://www.comtecmed.com/mcgill/2011/Faculty.aspx>)

22. Chairperson & Faculty: OVARIAN CLUB The Oocyte: from Basic Research to Clinical Practice The forum that will spearhead the field of reproduction for the future Barcelona, Spain, November 3-6, 2011 (<http://comtecmed.com/OC/2011/>)

## Research Interests:

Environmental risk factors and male infertility, Role of oxidative stress and use of antioxidants in ART, Vitrification and IVM of Immature Oocytes, Genomics and Post Genomic Approaches to Elucidate Male Infertility, Non-Invasive Embryo Selection and Development of Embryo Culture Systems.

## Miscellaneous appointments

- Examiner for PhD thesis, Human sperm Cryopreservation, Jadavpur University, Kolkata, India, 2008

- Examiner for Dtech thesis, The Impact of organic hydroperoxides.....sperm function & apoptosis, Faculty

of Health & Wellness Sciences, Cape Peninsula University of technology, South Africa (2009)

- Examiner for PhD thesis, Genetics of Male factor Infertility, Tamil Nadu Dr MGR Medical University, Chennai, India (2010)

- Examiner for MTech Thesis, Faculty of Health & Wellness Sciences, Cape Peninsula University of technology, South Africa (2010)

- External Preceptor- Summer Interns, Center for Reproductive Medicine, Cleveland clinic, Ohio

- **Expert Panel member/ research grant reviewer – Department of Biotechnology, Govt. of India**

## Professional Society attachments:

**President, Academy of clinical embryologists (ACE-India) [www.aceindiaonline.org](http://www.aceindiaonline.org)**

## Editorial Board

Editorial Board Member: **Journal of Assisted Reproduction & Genetics (ASRM)**

Editorial Board Member: **International Journal of Infertility and Fetal Medicine**

Associate Editor: **Journal of Reproductive and Stem Cell Biotechnology; JRSCB**

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Editorial Board Member: **ISRN Obstetrics and Gynecology**

Editorial Board Member: **Journal of Andrology, OMICS group**

Associate Editor: **Asian pacific Journal of Reproduction**

Reviewer for 1) Reproductive Bio Medicine Online 2) Human Fertility 3) Journal of Reproductive Sciences  
4) Fertility and Sterility 5) Archives of Medical Sciences

## **Research/Academic Collaborator:**

- **Center for Reproductive Medicine, Cleveland Clinic Foundation**  
<http://www.clevelandclinic.org/reproductiveresearchcenter/collab.html>

- **Assam Central University, India**
- **Chittaranjan National cancer Institute, India**
- **IVI, Valencia, Spain**
- **Androfert, Brazil**

## **Innovations:**

1. **Developed a robotic vitrification system and currently being evaluated by a European company**
2. **Designed a novel IVF workstation complying to tissue directives and physiological environment and being pursued by a UK based company for development**