



Mr Dhakshinamoorthy Swaminathan, MSc
Senior Embryologist

E-mail: dakshinaswami@gmail.com

Voice: +91-8939943995

+91-44-26540666 (Res.)



ACE Committee Member

C U R R I C U L U M V I T A E

DHAKSHINAMOORTHY SWAMINATHAN

Sr.Embryologist, IRM,MMM, Chennai
Mobile: +918939943995,Resi: 04426540666

E-Mail: dakshinaswami@rediffmail.com

dakshinaswami@gmail.com

[Preferred mode of communication]

Passport Details:

Passport no : F6129107,
Place of Issue : Bangalore, India,
Date of Expiry : January 29, 2016



EDUCATIONAL QUALIFICATION:

M.Sc.,	1992	Vivekananda College Madurai Kamaraj University	Zoology	I Class
B.Sc.,	1990	Vivekananda College Madurai Kamaraj University	Zoology Botany Chemistry	I Class

EXPERIENCE:

2010 August 16th-till date
MMM,
Tamilnadu,India

Sr.Embryologist and In-Charge ART Lab services IRM,
Chennai,

2004 March-2010 August

Scientific Director & Senior Embryologist and Geneticist
Santhathi –CRM, Mangalore

1997-2004

Molecular and Reproductive Biologists, In charge-Lab Services
and
Management Representative-ISO9002
Bangalore Assisted Conception Centre, Bangalore

Molecular Biology:

Molecular diagnosis and prenatal diagnosis of Duchenne
Muscular Dystrophy (DMD) , Beta-thalassemia and Sickle cell
disease using PCR
(Polymerase Chain Reaction)

Embryology:	In-Vitro fertilization (IVF), Embryo Transfer (ET) and ICSI (Intra Cytoplasmic Sperm Injection), Embryo freezing, Laser Assisted Hatching, Embryo biopsy techniques
Andrology :	Semen Analysis, Semen preparation for IUI (Intra Uterine Insemination) and Sperm Function Tests.
Biochemistry: system.	ELISA, Hormonal Assay using CIBA-CORNING ACS 180
1992 – 1997	ELECSYS 2010 Research Assistant Genetic Unit, Dept of Paediatrics , All India Institute of Medical Sciences, New Delhi.
	<u>Molecular Biology:</u> Molecular & Prenatal Diagnosis of Duchenne Muscular Dystrophy (DMD) Using PCR.

SCIENTIFIC PROFICIENCY:

HUMAN MOLECULAR BIOLOGY & CYTOGENETICS:

- Isolation and estimation of Human Genomic DNA
- Restriction Enzyme digestion of DNA
- PCR (Polymerase Chain Reaction)
- Gel Electrophoresis (PAGE and Agarose)
- Linkage and pedigree analysis
- Maintenance and setting up of a Molecular Biology laboratory
- Instrumentation for Molecular Biology laboratory
- Media preparation in Cytogenetics
- Basic culture techniques in Cytogenetics [lymphocyte]
- CVS and Amniotic cells culture
- FISH and use of automated cytogenetic software

HUMAN ASSISTED REPRODUCTIVE TECHNIQUES (ART):

- Oocyte Collection and Grading
- Semen preparation for IVF
- Insemination
- Embryo Culture and Grading
- Embryo Transfer (ET)
- ICSI (Intra Cytoplasmic Sperm Injection)
- Preparation of Culture, Flushing and Freezing Media for IVF and IUI laboratories
- Embryo freezing: **Vitrification** and Slow Controlled Rate Freezing [SCRF]
- Semen Freezing and Banking
- Maintenance and Setting up of an IVF lab
- Handling and Maintenance of Micromanipulator
- Handling and Maintenance of Inverted / Stereo Zoom Microscope
- Handling and maintenance of Millipore water purification system

ANDROLOGY:

- Semen Analysis and Functional Tests [Biochemical, Immunological, Molecular]
- Semen preparation methods such as,
- Wash and Spin

- Wash and Swim-up
- Swim – up from neat semen (layering)
- Self – migration sedimentation
- Swim – down trough albumin columns
- Percoll / Pure Sperm / Supra Sperm or Isolate gradient
- Mini – Percoll gradient

BIOCHEMISTRY:

- Chromatography
- Cellulose Electrophoresis
- ELISA
- Hormonal Assay using CIBA-CORNING **ACS 180** (Automated Chemiluminasance System)
- ELECSYS 2010 [Electro Chemiluminsance System]
- Spectrophotometry

MICROBIOLOGY :

- Preparation of basic media
- Semen and Urine Culture & Sensitivity

PUBLICATIONS:

1. **Swaminathan D** (1998) prenatal diagnosis and genetic Counseling of Duchenne Muscular Dystrophy. In Rao KA (ed): A handbook of prenatal diagnosis and reproductive genetics, 73-78. (A FOGSI publication)
2. Rao KA, **Swaminathan D** (1998) prenatal diagnosis in Obstetric practice. In Rao KA (ed): A handbook of prenatal diagnosis and reproductive genetics, 8-13. (A FOGSI publication)
3. Prabhakara K, **swaminathan D**, (1999) Indications for Amniocentesis, In Rao KA(ed): Amniotic Fluid, 6-13.
4. **Swaminathan D** (2001) Future of Prenatal Diagnosis. In Rao KA (ed):Current Concepts in Perinatology, 178-192.(A FOGSI publication)

RESEARCH PRESENTATION / ABSTRACTS:

1. **Swaminathan D**, Prabhakara K, Rao KA (1997) Molecular deletions in Duchenne Muscular Dystrophy – A preliminary experience. 23rd Annual Conference of Indian Society of Human Genetics (ISHG), New Delhi, December 16-18.
2. Prabhakara K, **Swaminathan D**, Rao KA (2000) Chorionic supernatant Fluids as additional source of fetal cells for karyotyping. 25th Annual

conference of Indian Society of Human Genetics (ISHG), Nagpur, January 9-10.

FREE PAPER PRESENTATION:

Swaminathan D, Nalini Krishnan, Anu Kottur, Kamini A.Rao (1999) Semen preparation for IUI- a comparative study. 12th Annual Conference of Karnataka state Obstetrics and Gynecology Association (KSOGA), August 27-29, Bangalore.

WORKSHOP AND TRAINING COURSES CONDUCTED:

As a Chief faculty member and a Programme coordinator in IIRRH [*International Institute for Research and Training in Reproductive Health*] a non-profit trust Organization associated with Bangalore Assisted Conception Centre. Trained more than **200 doctors** and technicians from all over India, From 1998-2004. Basically on ART techniques like IUI/IVF/ICSI.

WORKSHOP/TRAINING COURSE ATTENDED:

Pre-congress workshop on Pre-implantation Genetic Diagnosis [PGD], 9th ISAR National conference, Indore, 12-13 Feb, 2003.

1st Indo-Danish Workshop on IVM, 28 Feb & 01st March, 2005, 11th ISAR 2005, Mumbai.

SYMPOSIAS/CONFERENCES ATTENDED:

- 1] 12th KSOGA conference on OBG&GYN, Bangalore
- 2] 23rd ISHG National Conference on Genetics, New Delhi
- 3] 25th ISHG National Conference on Genetics, Nagpur
- 4] 26th ISHG National Conference on Genetics, Hyderabad
- 5] 8th ISAR National Conference in ART, 15-17th Feb, 2002 Ooty
- 6] Update in Art, 9th June 2002, Bangalore
- 7] 46th AICOG on OBG&GYN, Jan 6-9, 2003, Bangalore
- 8] 9th ISAR National Conference in ART, 14-16 Feb, 2003, Indore
- 9] 11th ISAR National Conference in ART, 24-27 Feb, 2005, Mumbai
- 10] 12th ISAR National Conference in ART, 24-25 Feb, 2006, Bangalore
- 11] ISAR South Zone Conference 2007, Bangalore
- 12] ICMARC 2007, International Conference held at Manipal, Dec 7-9,2007
- 13] 2nd ASPIRE Conference, Singapore, April 11-13, 2008
- 14] 6th Biennial Meeting of PRSFS2008, Singapore, April 11-13,2008
- 15] CME on PGD and Prenatal Diagnosis & workshop on IUI, at MARC, KMC, Manipal, Feb 20-21, 2010
- 16] 15TH ISAR National Conference in ART, 10&11 April, 2010, Cochin
- 17] Hands on workshop on IMSI,IVM and Vitrification, 15th ISAR , 9th April, 2010, Cochin

COMPUTER KNOWLEDGE:

Well versed with Windows 2000 / NT operating system and MS office / XP /Internet.

Associated extensively with Software professionals to develop OFSY and Infertility software for BACC and Santhathi CRM.

AREA OF INTEREST:

▶ **Male factor Infertility-Genetics, Molecular and Biochemical [Registered for Ph.D**

[Mangalore University] currently engaged: from Dec 2005 onwards]

▶ **Pre Implantation Genetic Diagnosis (PGD)
Stem Cell Biology
Gene Therapy**

[Visited LIFE center for Reproductive Medicine, Newcastle upon Tyne, UK in 2005 for a period of Two months to gain knowledge in Stem Cells Biology and Human Therapeutic Cloning]

MEMBERSHIP OF SCIENTIFIC BODIES:

Academy of Clinical Embryologist (ACE)
Indian Society of Human Genetics (ISHG)
India Society of Assisted Reproduction (ISAR)
Indian Society of Prenatal Diagnosis and Therapy (ISPAT)
European Society of Human Reproduction and Embryology (ESHRE)

MANAGERIAL SKILLS [As a Management Representative-ISO 9002]:

- Involved from concept to completion, of ISO 9002 Quality System Management, at BACC.
- As a member of the Hospital Management Board worked with the CEO, Finance, Human Resources, Nursing Directors to plan strategies, operational polices to Cater to the local health needs and to use the resources effectively and efficiently.
- Setting standards, implementation and monitoring of total quality management.
- Conducting, regular training courses for employees at, Bangalore Assisted Conception Centre.

REFREES:

DR.I.C.VERMA,

Senior Consultant and Head
Dept of Medical Genetics
Sir Ganga Ram Hospital
Rajinder Nagar
New Delhi – 60
Tel # 011-25721800 / 25781837 Ext.: 1039 – 1041
Fax # 011 – 25751002
E-mail : icverma@giasdL01.vsnl.net.in

DR.MADHULIKA KABRA

Assistant Professor
Genetic Unit, Dept of Pediatrics, Old O.T Building
All India Institute of Medical Sciences
Ansari Nagar
New Delhi –29
Tel # 011 – 26594585 / 26864851 Ext.: 4585 / 3558 / 3264
Fax # 011- 26862663
E-mail : madhu@medinst.ernet.in

DR.KAMINI A.RAO

CEO & Medical Director
Bangalore Assisted Conception Centre,
6/7 Kumara Krupa Road, High Grounds
Bangalore –1
Tel # 080-22260880/22269245
Fax # 080-22250465
E-mail : kambacc@vsnl.com

DR.KISHAN SULLIA

Medical Director
SANTHATHI Centre For Reproductive Medicine
Near Mangalore Nursing Home
Upper Bendoor
Mangalore 575002
Tel# : 0824-2214650/660
Email: kishansullia@rediffmail.com, santhathicrm@rediffmail.com



“Many say I am just one to try. I say I am one Less to quit” – Diego Marchi