

ASSOCIATION OF REPRODUCTIVE GENETICS & IMMUNOLOGY (ARGI) NEWSLETTER – INAUGURAL EDITION (OCTOBER 2025)



Association of Reproductive Genetics and Immunology (ARGI), India



"Science knows no country, because knowledge belongs to humanity and is the torch which illuminates the world." – Lois Pasteur



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Dr. Jayesh Amin



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FROM THE PRESIDENT'S DESK



Dr. Jayesh Amin

Dear Colleagues, It gives me immense pleasure to present the **inaugural newsletter** of the Association of Reproductive Genetics and Immunology (ARGI), India - a milestone moment for the country's reproductive medicine community.

The field of **Reproductive Genetics and Immunology** is rapidly evolving and has become the cornerstone of personalized reproductive care. The interplay of genetics and immune mechanisms governs implantation, pregnancy maintenance, and recurrent pregnancy loss. Despite its significance, this specialized domain remained fragmented across disciplines. **ARGI was thus envisioned to bridge this gap**, uniting fertility specialists, Obstetrician and Gynaecologists, embryologists, geneticists, and immunologists on one platform.

As Prof. **Robert Norman** aptly highlighted (Norman R. J. (2022). Fertility and sterility, 117(6), 1105–1106.) that reproductive medicine specialist is no longer just a clinician but a **surgeon, scientist, and multidisciplinary expert**, navigating the complex interplay of genetics, endocrinology, and ethics in fertility care. He emphasized that while the field has evolved through technological and surgical mastery, the **next frontier lies in immunology** – an area that holds the key to solving persistent challenges in **implantation, infertility, and pregnancy maintenance**. The long-standing paradox of how the maternal immune system tolerates a semi-allogeneic embryo underscores the need for deeper understanding and research into **reproductive immunology**, marking it as the next evolution in comprehensive reproductive medicine.

With our official inauguration on **27th July 2025 in Bengaluru**, we marked the beginning of a new era of multidisciplinary collaboration aimed at **understanding the genetic and immunologic underpinnings of fertility and reproduction** – and translating that knowledge into improved patient outcomes.

Warm regards,
Dr. Jayesh Amin
President, ARG – India
Clinical Director & HOD, NOVA WINGS Fertility
Vice-Chair, ASRM MOISIG | National Advisor, IFS

INAUGURATION HIGHLIGHTS

27th JULY 2025, BENGALURU

The inaugural ceremony of ARGI – Association of Reproductive Genetics and Immunology was held with great enthusiasm at Bengaluru, graced by national and international experts in reproductive medicine.

The event marked the **formal launch of India's first coordinated organization** dedicated exclusively to Reproductive Genetics and Immunology.

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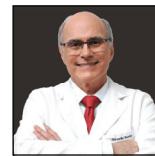
KEY HIGHLIGHTS:

- **Lighting of the lamp** by eminent dignitaries symbolizing the illumination of scientific collaboration.
- Presidential address by **Dr. Jayesh Amin**, highlighting the importance of integrating genetic and immune sciences in reproductive practice.
- Introduction of **Founding Members and Executive Board**.
- Presentation of **ARGI's Vision, Mission, and Strategic Roadmap**.
- Announcement of **International Scientific Advisory Board**, featuring globally renowned experts:



Dr. Gil Mor
(USA)

Pioneer in reproductive immunology and placental research.



Dr. Ricardo Barini
(Brazil)

Authority in reproductive genetics and preimplantation diagnosis



Dr. Natalie
(UK)

President elect of ESHRE for reproductive immunology, Researcher and clinician in reproductive immunomodulation.



WHY REPRODUCTIVE GENETICS & IMMUNOLOGY MATTER

The journey of reproductive medicine has been nothing short of revolutionary. In **1978**, when the world witnessed the birth of the first **IVF baby – Louise Brown**, the scientific community celebrated the triumph of technology over infertility. At that time, the understanding of infertility was primarily confined to **anatomical and tubal factors**. Gradually, we recognized the **endocrine causes**, including ovulatory dysfunction, diminished ovarian reserve, and hormonal imbalances, which became major contributors to subfertility.



Scientific advisor
Dr. Sonia Malik



Scientific advisor
Dr. Madhuri Patil



Scientific advisor
Dr. Nayana Patel



National Scientific advisor
Dr. Deepak Modi



National Scientific advisor
Dr. Thangaraj



Executive Committee
Dr. Sankalp Singh



Executive Committee
Dr. Hitendra Somani



Executive Committee
Dr. S M Rahman



Executive Committee
Dr. Neeraj Pahlajani

As clinical science evolved, the field of **in vitro fertilization (IVF)** advanced from simple fertilization techniques to more sophisticated procedures that allowed us to **select embryos based on genetic normalcy**. The introduction of **Preimplantation Genetic Testing (PGT)** marked a paradigm shift — allowing transfer of Euploid embryos, seemingly eliminating the chromosomal abnormalities that once hindered implantation and healthy pregnancies.

However, a crucial question emerged:

“If we transfer chromosomally normal (euploid) embryos into a receptive endometrium, why do implantation failures and miscarriages still occur?”

Despite transferring euploid embryos, clinical live birth rates seldom exceed 50–55%, revealing that genetics alone does not hold all the answers. Even with the advent of advanced genomic technologies, we are yet to decode the complete mystery of reproductive genetics. There may still exist hidden layers of genetic and epigenetic regulation, undetected mosaicism, or molecular mechanisms that remain poorly understood — representing the missing links in our understanding of recurrent implantation failure (RIF) and recurrent pregnancy loss (RPL).

Herein lies the emerging and critical dimension of integration of reproductive genetics and immunology — a field that examines the complex interplay between the maternal immune system and the semi-allogeneic embryo.

Successful implantation requires not only a genetically competent embryo but also a finely tuned immune dialogue between the embryo and the endometrium. This delicate equilibrium integrates genetic integrity, molecular signaling, and immune tolerance, all of which must harmonize for implantation and pregnancy to succeed. Aberrations in immune tolerance, excessive activation of natural killer (NK) cells, imbalance in cytokine signaling, or the presence of autoantibodies can disrupt this balance and contribute to implantation failure, early pregnancy loss, or unexplained infertility — even in the era of advanced genetics.

Thus, fertility and reproductive success ultimately depend on this complex interplay between genetics and immunology, and perhaps on yet undiscovered genomic and immunologic pathways that continue to shape our evolving understanding of conception and early pregnancy outcomes.

It is precisely this intersection of genetics and immunology that our Association aims to explore and strengthen — by striving to unravel these missing genetic and immunologic links, fostering research collaborations, and promoting evidence-based clinical integration. Through this combined approach, the Association endeavors to enhance reproductive outcomes, reduce the burden of RIF and RPL, and bring us closer to decoding the still-unfolding mysteries of implantation and early pregnancy success.

It is this realization that has inspired the birth of the **Association of Reproductive Genetics and Immunology (ARGI)** — India's first coordinated scientific body dedicated to uniting the disciplines of genetics, immunology, and reproductive medicine under one collaborative platform.

Key Areas of Focus:

- **Genetic screening and counselling** in infertility and recurrent pregnancy loss
- **Immunological causes** of implantation failure and miscarriage
- **Autoimmune disorders** and their effect on fertility
- **Molecular diagnostics**
- **Immunomodulation and novel therapies** for reproductive success

ARGI aims to foster **education, research, and clinical translation** in these frontier areas through national collaborations and global partnerships.

OUR AIMS & OBJECTIVES

ARGI has been established with a clear vision to **create an integrated ecosystem** where reproductive clinicians including fertility specialists, Obstetrician and Gynaecologists, scientists, and researchers can work together to:

Executive Committee
Dr. Siddhartha Nagireddy



Executive Committee
Dr. Shyam Gupta



Executive Committee
Dr. Jeetendra Behera



Executive Committee
Dr. Alka



Executive Committee
Dr. Sheetal Sawankar



Executive Committee
Dr. Rudri Agrawal



Executive Committee
Dr. Pallavi Tiple



Executive Committee
Dr. Utkarsha Agrawal



Executive Committee
Dr. Paritosh Shekhar



Executive Committee
Dr. Alpesh Patel

- Promote awareness and education** in reproductive genetics and immunology.
- Improve patients outcome and treat difficult cases of Recurrent implantation failure and pregnancy losses**
- Encourage evidence-based clinical practice** through consensus guidelines and workshops.
- Facilitate research collaborations** between clinicians, geneticists, and immunologists.
- Organize fellowships and webinars** for continuous learning.
- Publish newsletters, journals, and position statements** to disseminate scientific knowledge.
- Collaborate internationally** with organizations like ASRM, ESHRE, and ASRI to harmonize standards.

FELLOWSHIP & EDUCATIONAL INITIATIVES

“Shaping the next generation of clinician-scientists in reproductive genetics and immunology.”

Recognizing the growing need for structured training, **ARGI proudly announces the ARGI certification Program in Reproductive Genetics and Immunology**, beginning very soon in coming months.

HIGHLIGHTS:

- Regular features designed to keep our community informed, inspired, and connected
- Certification program in basic and advanced reproductive genetics and immunology.
- Modules on genetic testing, immunodiagnostics, recurrent pregnancy loss management, and embryo genetics.
- Mentorship by national and international faculty
- ARGI Monthly Case: A real-world clinical or translational case to challenge your thinking and spark discussion. Share your approach and learn from colleagues across disciplines.
- ARGI monthly Journal Watch: A spotlight on one recent article and open discussion.
- Member Spotlight: Get to know your colleagues! Each month we'll feature a ARGI member whose work, mentorship, or advocacy is making an impact in the field.

Applications for certification program will open soon on our website:
 <https://www.argiscientific.org>

GLOBAL COLLABORATION & RECOGNITION



ARGI's vision has already garnered **international recognition**. Our **international scientific advisory panel** ensures that India's reproductive community stays connected with global advances, enabling **knowledge exchange and collaborative research**.

JOIN US – TOGETHER, WE ADVANCE SCIENCE

We invite fertility specialists, Obstetrician and Gynaecologists, embryologists, geneticists, immunologists, and researchers to **become valued members of ARGI**. With just **one click and in less than 60 seconds**, you can register, pay your lifetime membership fee, and be part of a growing network dedicated to advancing reproductive genetics and immunology in India.

MEMBERSHIP BENEFITS:

- Access to ARGI webinars, workshops, and conferences
- Eligibility for Fellowship & Certifications
- Networking with national and international experts
- Quarterly newsletter subscription
- Opportunities for publication in ARGI Journal

UPCOMING INITIATIVES

- ARGI National Conference 2026:
“Genetics Meets Immunology – Bridging the Gap in Reproductive Science”
- ARGI Journal Launch
- Webinar Series: “Immune Pathways in Reproduction – Decoding the Science”
- Collaborative Research application

Become a Member with **ONE CLICK**
in Less Than 60 Seconds!

1. Scan the QR Code
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3. Register & Fill Your Details
4. Pay the Lifetime Membership Fee
5. Unlock a World of Learning, Growth & Collaboration!



Simple • Fast • One-Time • Lifetime Advantage

*Together, we decode the science
of life and reproduction.*

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