

## **Andrology Laboratory Services**

Andrology laboratory is a facility in Reproductive Biology that provides specialized semen analysis services. Semen analysis assesses seminal plasma and sperm parameters such as semen volume, pH, color, viscosity, cellularity, sperm count, viability, motility, morphology and other biochemical markers such as fructose, alpha glucosidase, etc. Department also provides HOS test on request. Semen analysis is done manually and also if required then by CASA (computer assisted semen analysis). Department is ready to offer sperm aneuploidy test by sperm FISH (fluorescent in situ hybridization) test as well as azoospermic factor copy number variation (deletion or duplication).

Lab infrastructure includes laboratory space, personnel (faculty, scientist and technicians) and equipment. Two medical personnel are the supervisors to do reporting and internal quality check. WHO laboratory manual (5<sup>th</sup> edition, 2010) is followed for making reagents, stains and for assessing sperm parameters. This is done in order to achieve laboratory quality assurance. Laboratory data is analyzed for quality check on regular basis.

Andrology lab is also provides hand on trainings to postgraduate students and research scholars. Lab is also associated with collaborative research projects on infertility. Department is soon upgrade and link this facility with semen banking services.