

Established

Traditional tools

WHO assessment criteria

Computer assisted sperm analysis (CASA)

Motile sperm organelle morphology assessment (MSOME)

Hemizona assay

Sperm purification:

- Swim-up
- Colloidal silica gradient (Percoll)

Innovative tools

Cap-score and G_{UT} localization

3D dynamic flagellar tracking

Sperm purification:

- Microfluidics
- Electrophoresis, e.g. Felix™ sperm separation system

Hyaluronan dependent sperm selection:

- SpermSlow
- Physiological ICSI (PICSI)

Magnetic activated cell sorting (MACS)

Prospective tools

Flow cytometry/probes and stains including viability, capacitation and acrosomal status, mitochondrial membrane potential, ROS generation, lipid peroxidation, apoptosis, and DNA integrity (8-OHdG)

Novel imaging:

- Holographic 3D imaging (AI)
- YO sperm test (smart phone)

Optical property selection:

- Birefringence

Charge selection:

- Zeta potential binding

Biomarkers

Omic-driven biomarker identification:

- Next-generation sequencing to determine genetic causes of male infertility
- Epigenetic analysis of sperm genome methylation status
- RNA molecular biomarkers (sncRNA)
- Protein biomarkers for fertilization competent spermatozoa

Future

Frontiers In Human Reproduction

JG Myers



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