

1. Record Nr.	UNINA9910254268303321
Titolo	Andrological Evaluation of Male Infertility : A Laboratory Guide // edited by Ashok Agarwal, Sajal Gupta, Rakesh Sharma
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-26797-3
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XII, 215 p. 122 illus.)
Disciplina	612.6
Soggetti	Reproductive health Andrology Endocrinology Reproductive Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Diagnostic Tests in the Evaluation of Male Infertility -- Quality Management in Andrology Laboratory -- Competency Assessment in Andrology Laboratory -- Basic Semen Analysis -- Semen Analysis Using Hamilton-Thorn Casa -- Semen Analysis Using SCA (v5) For Casa -- Leukocytospermia Quantitation (ENDTZ) Test -- Eosin-Nigrosin Staining Procedure -- Sperm Morphology Stain (Diff-Quik®) -- Qualitative Seminal Fructose -- Cytospin Procedure \$ Nuclear Fast Red and Picroindigocarmine Stain Procedures For Azoospermia Samples -- Hypo-Osmotic Swelling Test (HOS) -- Procedure for Retrograde Ejaculate -- Sperm Preparation for Intrauterine Insemination Using Pureception® -- Sperm Preparation for Intrauterine Insemination (IUI) by Swim-Up Method -- Cryopreservation of Client Depositor Semen -- Cryopreservation of Client Depositor Semen Aspirate -- Cryopreservation of Client Depositor Testicular Tissue -- Acrosome Reaction Measurement -- Direct Sperm Antibody Test -- Reactive Oxygen Species (ROS) Measurement -- Antioxidant Measurement in Seminal Plasma by TAC Assay -- DNA Damage in Spermatozoa (TUNEL) BD Accuri™ C6 Flow Cytometer -- Licensing and Accreditation of the Andrology Laboratory.

Sommario/riassunto

This state-of-the-art laboratory manual includes 20 clinical protocols used daily for the investigation of the infertile male, presented with easy to understand, step-by-step methodology. The protocols are arranged from routine to advanced laboratory procedures common to clinical practice, including computer-assisted semen analysis, sperm preparation for IUI by density gradient and swim-up, sperm cryopreservation, and sperm DNA fragmentation test by TUNEL method, among others. The methodology in each protocol follows best practice guidelines made clearer by professionally hand-drawn illustrations covering most of the important steps and equipment. The authors, hailing from the world-renowned Andrology Center at Cleveland Clinic, have over 50 years of combined first-hand experience in managing very busy diagnostic and research facilities in male infertility and andrology. The book will be an indispensable resource for thousands of laboratory technologists, clinicians and reproductive professionals (andrologists, embryologist, etc.) engaged in the diagnosis and management of infertile men around the world.
