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Titolo	Protocols in Semen Biology (Comparing Assays) // edited by N. Srivastava, Megha Pande
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ISBN	981-10-5200-X
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XVII, 288 p. 63 illus., 51 illus. in color.)
Disciplina	570.28
Soggetti	Biology—Technique Animal physiology Veterinary medicine Biological Techniques Animal Physiology Veterinary Medicine/Veterinary Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Semen Analysis – An Overview -- Chapter 2. Selection of Spermatozoa -- Chapter 3. Handling and Applications of Optical Devices -- Chapter 4. Basic Semen Assays -- Chapter 5. Estimates of Sperm Motility -- Chapter 6. Evaluating Sperm Cell Viability & Membrane Integrity -- Chapter 7. Counting Sperm Numbers -- Chapter 8. Evaluating Sperm Cell Morphology -- Chapter 9. Biochemical Assays in Spermatology -- Chapter 10. Estimating Metabolic Activity of Spermatozoa -- Chapter 11. Evaluating Resistance of Spermatozoa to Adverse Conditions -- Chapter 12. Determining Oxidative Stress of Spermatozoa -- Chapter 13. Determination of Mitochondrial Function in Sperm Cells -- Chapter 14. Determination of Capacitation Related Changes Using Fluorescent Stains -- Chapter 15. Evaluating Damages to Sperm DNA -- Chapter 16. Estimating Proteins of Semen -- Chapter 17. Measuring Lipids of Spermatozoa and Seminal Plasma -- Chapter 18. Gel Electrophoresis of Proteins and Nucleic Acids -- Chapter 19. Immuno-Reproductive Assays in Semen Biology -- Chapter 20. Sperm Function Assays. .
Sommario/riassunto	This book on protocols in semen biology is a compilation of 20

chapters written by 15 experts from 5 Indian Council of Agricultural Research institutions, focusing on the basics of various procedures in semen biology with applications in animal and other allied sciences. The information is presented in simple language with illustrative figures and colour microphotographs, making it understandable for readers of every level. It highlights recent findings, the comparative analysis of assays, protocols, points to ponder, background information and major references, and also compares various assays for evaluating a seminal parameters. The book provides a comprehensive resource for beginners, as well as academics, investigators and scientists of animal semen biology and relevant fields. Further, it offers valuable teaching material.

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