

Contents

<i>List of Contributors</i>	vi
<i>Preface</i>	ix
1	Introduction: Why Do We Bother with Embryo Selection? 1 <i>Arne Sunde and Kersti Lundin</i>
2	Embryo Developmental Programming 10 <i>Virginia N. Bolton</i>
3	Embryo–Maternal Interactions 20 <i>Lois A. Salamonsen, Tracey A. Edgell, Guiying Nie, and Jemma Evans</i>
4	The Sperm’s Role in Embryo Development 31 <i>Nahid Punjani, Russell P. Hayden, and Peter N. Schlegel</i>
5	The Oocyte’s Role in Embryo Development 43 <i>David F. Albertini</i>
6	The Laboratory’s Role in Embryo Development 53 <i>Dean Morbeck</i>
7	Handling of Gametes and Embryos 62 <i>Sharon T. Mortimer</i>
8	Noninvasive Morphological Selection of Oocytes 70 <i>Giovanni Coticchio, Elena Borini, Catello Scarica, and Andrea Borini</i>
9	Prospects for Bioenergetics for Embryo Selection 81 <i>Jonathan Van Blerkom</i>
10	Static Morphological Assessment for Embryo Selection 100 <i>Thomas Ebner</i>
11	Dynamic Morphological Assessment for Embryo Selection 113 <i>Alison Campbell</i>
12	Noninvasive Analysis of Embryo Nutrient Utilization for Embryo Selection 123 <i>David K. Gardner, Laura Ferrick, Rebecca L. Kelley, and Yee Shan Lisa Lee</i>
13	Genomics for Embryo Selection 135 <i>Elpida Fragouli and Dagan Wells</i>
14	Biopsy Techniques from Polar Body to Blastocyst 149 <i>Danilo Cimadomo, Nicoletta Barnocchi, Letizia Papini, Federica Innocenti, Filippo Maria Ubaldi, and Laura Rienzi</i>
15	Cell-Free DNA Analysis for PGT-A 158 <i>Luca Gianaroli, Silvia Azzena, and M. Cristina Magli</i>
16	What Science May Come for Embryo Selection? 168 <i>Paolo Rinaudo and Eleni Jaswa</i>
	<i>Epilogue</i> 177
	<i>Index</i> 178

Color plates can be found between pages 134 and 135.

Online resources

All videos mentioned in the book are available to view under the resources tab via:
www.cambridge.org/embryoselection
Password: EmbryoSelection23