

Culture Media, Solutions, and Systems in Human ART

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This volume describes culture media and solutions used in human ART; how they have been developed for in vitro human pre-implantation embryo development, the function and importance of the various components in media and solutions and how they interact, and how the systems in which these are used can influence outcomes. Chapters discuss inorganic solutes, energy substrates, amino acids, macromolecules, cytokines, growth factors, buffers, pH, osmolality, and the interaction of these parameters. The role of incubators and other physical factors are reviewed, along with the relevance and prospects of emerging technologies: morphokinetic analysis using time-lapse imaging and dynamic fluid incubation systems. Results of prospective randomized trials are emphasized to ascertain the added value of these techniques for selecting viable embryos. This comprehensive guide will be invaluable for embryologists, physicians and all personnel involved in the fluid products used in human ART seeking to optimize their successful use of these components.

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Culture Media, Solutions, and Systems in Human ART From Cambridge University Press Bibliography

- Sales Rank: #3052507 in Books
- Published on: 2014-05-26
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .59" w x 6.14" l, 1.15 pounds
- Binding: Paperback
- 296 pages

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Editorial Review

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