

Paperback Re-issue

During animal development, the descendants of a single cell form many different tissues and organs in appropriate positions within the developing embryo. An essential aspect of this process is determination, the assignment of specific fates to particular cells in particular positions, assignments which preclude the pursuit of other developmental pathways. *This Side Up* examines the processes and mechanisms of embryonic determination, as revealed by the techniques of experimental embryology and molecular biology. The book begins by considering how much spatial pattern is already laid down when the egg forms inside the mother, and ends just before the formation of visible organs. Moreover, in the final chapter, the author analyses this evidence in ways which will be fresh to most readers and which call into question many current ideas about spatial determination.

The breadth of coverage and the in-depth consideration of experimental results, from a range of disciplines and approaches, will make this book an invaluable source of information for all those interested in the fundamental problems of animal development.

Front cover shows a maturing *Tubifex* egg undergoing the deformation movements which precede ooplasmic segregation (Schimizu, 1982*b*, picture courtesy of the author). The cover design is by Ken Vail.

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