

Wetware

A Computer in Every Living Cell

Dennis Bray

Yale University Press New Haven & London

Contents

<i>Preface</i>	ix
ONE	
Clever Cells	1
TWO	
Simulated Life	27
THREE	
Protein Switches	54
FOUR	
Protein Signals	71
FIVE	
Cell Wiring	89
SIX	
Neural Nets	109
SEVEN	
Cell Awareness	132
EIGHT	
Molecular Morphing	144
NINE	
Cells Together	167
TEN	
Genetic Circuits	179
ELEVEN	
Robots	195
TWELVE	
The Juice	209
THIRTEEN	
Amoeba Redux	226
<i>Glossary</i>	243
<i>Sources and Further Reading</i>	251
<i>Index</i>	259