Contents

1	Dublin, 1943–2012 1
2	Chemical Synthesis as Proof 8
3	Dawn of the Digital Age of Biology 25
4	Digitizing Life 47
5	Synthetic Phi X 174 63
6	First Synthetic Genome 83
7	Converting One Species into Another 96
8	Synthesis of the <i>M. mycoides</i> Genome 111
9	Inside a Synthetic Cell 127
10	Life by Design 139
11	Biological Teleportation 160
12	Life at the Speed of Light 179
	Acknowledgments 189

213

Index