Contents

1	Dublin, 1943–2012 1
2	Chemical Synthesis as Proof 11
3	Dawn of the Digital Age of Biology 35
4	Digitizing Life 66
5	Synthetic Phi X 174 88
6	First Synthetic Genome 116
7	Converting One Species into Another 134
8	Synthesis of the M. mycoides Genome 155
9	Inside a Synthetic Cell 177
0	Life by Design 194
11	Biological Teleportation 223
2	Life at the Speed of Light 250
	Acknowledgments 263
	Notes 266
	Index 295