

CONTENTS

Introduction

*I Love Music and I Love Science—Why Would I Want
to Mix the Two?* 1

1. What Is Music?
From Pitch to Timbre 13

2. Foot Tapping
Discerning Rhythm, Loudness, and Harmony 57

3. Behind the Curtain
Music and the Mind Machine 83

4. Anticipation
What We Expect from Liszt (and Ludacris) 111

5. You Know My Name, Look Up the Number
How We Categorize Music 133

6. After Dessert, Crick Was Still Four Seats Away from Me
Music, Emotion, and the Reptilian Brain 169

7. What Makes a Musician?	
<i>Expertise Dissected</i>	193
8. My Favorite Things	
<i>Why Do We Like the Music We Like?</i>	223
9. The Music Instinct	
<i>Evolution's #1 Hit</i>	247
<i>Appendices</i>	269
<i>Bibliographic Notes</i>	277
<i>Acknowledgments</i>	307
<i>Index</i>	309