

Contents

List of Contributors	vii
Introduction: Psychological Science in Perspective	x
Part I Cross-Cutting Challenges to Psychological Science	1
1 Maximizing the Reproducibility of Your Research <i>Open Science Collaboration</i>	3
2 Powering Reproducible Research <i>Katherine S. Button and Marcus R. Munafò</i>	22
3 Psychological Science's Aversion to the Null, and Why Many of the Things You Think Are True, Aren't <i>Moritz Heene and Christopher J. Ferguson</i>	34
4 False Negatives <i>Klaus Fiedler and Malte Schott</i>	53
5 Toward Transparent Reporting of Psychological Science <i>Etienne P. LeBel and Leslie K. John</i>	73
6 Decline Effects: Types, Mechanisms, and Personal Reflections <i>John Protzko and Jonathan W. Schooler</i>	85
7 Reverse Inference <i>Joachim I. Krueger</i>	108
8 The Need for Bayesian Hypothesis Testing in Psychological Science <i>Eric-Jan Wagenmakers, Josine Verhagen, Alexander Ly, Dora Matzke, Helen Steingroever, Jeffrey N. Rouder, and Richard D. Morey</i>	123

Part II	Domain-Specific Challenges to Psychological Science	139
9	The (Partial but) Real Crisis in Social Psychology: A Social Influence Analysis of the Causes and Solutions <i>Anthony R. Pratkanis</i>	141
10	Popularity as a Poor Proxy for Utility: The Case of Implicit Prejudice <i>Gregory Mitchell and Philip E. Tetlock</i>	164
11	Suspiciously High Correlations in Brain Imaging Research <i>Edward Vul and Harold Pashler</i>	196
12	Critical Issues in Genetic Association Studies <i>Elizabeth Prom-Wormley, Amy Adkins, Irwin D. Waldman, and Danielle Dick</i>	221
13	Is the Efficacy of “Antidepressant” Medications Overrated? <i>Brett J. Deacon and Glen I. Spielmans</i>	250
14	Pitfalls in Parapsychological Research <i>Ray Hyman</i>	271
Part III	Psychological and Institutional Obstacles to High-Quality Psychological Science	295
15	Blind Analysis as a Correction for Confirmatory Bias in Physics and in Psychology <i>Robert J. MacCoun and Saul Perlmutter</i>	297
16	Allegiance Effects in Clinical Psychology Research and Practice <i>Marcus T. Boccaccini, David Marcus, and Daniel C. Murrie</i>	323
17	We Can Do Better than Fads <i>Robert J. Sternberg</i>	340
	Afterword: Crisis? What Crisis? <i>Paul Bloom</i>	349
	Index	356