Conclusions Advances in neuroscience research have led to a more sophisticated understanding of how psychotherapy may affect brain functioning. These developments point the way towards a new era of psychotherapy research and practice in which specific modes of psychotherapy can be designed to target specific sites of brain functioning. Declaration of interest This work was funded by the Callaway Professorship of the Menninger Clinic. (See editorial, pp.93–94, this issue. The growing awareness that the brain possesses more plasticity than most of the other organs in the body allows us to begin to Using a rigorous yet clinically-focused approach, Fundamental Neuroscience for Basic and Clinical Applications, 5th Edition, covers the fundamental neuroscience information needed for coursework, exams, and beyond. It integrates neuroanatomy, pharmacology, and physiology, and offers a full section devoted to systems neurobiology, helping you comprehend and retain the complex material you need to know. Key Features. Highlights clinical content in blue throughout the text, helping you focus on what you need to know in the clinical environment. Table of Contents. Section I Essential Concepts. 1