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Nota di contenuto	Translational Neuroscience : A Guide to a Successful Program; Contents; Contributors; Preface; Acknowledgments; 1 A Brief History of Translational Neuroscience; Some recent history; Funding translational research; Lack of funding; Making NIH funding more equitable and efficient; How much funding is needed?; Medical research funding in Europe; References; 2 Mentoring in Translational Neuroscience; T1 blocks; T2 blocks; References; 3 Core Facilities for Translational Neuroscience; Designing translational neuroscience core facilities; Preattentional measure-the P50 potential Attentional measures-psychomotor vigilanceFrontal lobe blood flow measures; References; 4 Translational Studies Using TMS; Overview; Introduction; Development of a sham stimulation technique for humans; PET-guided TMS studies of tinnitus perception; TMS investigations of decision-making in tobacco addiction; TMS investigations in rodents; Conclusion; References; 5 Translational Studies in Drug Abuse; Background and significance; Behavioral Core Facility; Voltage-sensitive dye imaging; Intravenous drug self-administration; References; 6 Electrophysiology in Translational

Neuroscience

In vivo and in vitro animal modelsModafinil; Patch clamp recordings; Gamma band activity; Population responses; Preconscious awareness; Magnetoencephalography, the Cadillac of human electrophysiology; References; 7 Translational Research on Spinal Cord Injury; Electrophysiological approach: H-reflex frequency-dependent depression; Biomechanical approach: windup of the stretch reflex; Interventions: passive exercise; Interventions: pharmacology (L-Dopa, Modafinil); Conclusions; References; 8 Translational Research in Neonatology; Introduction; The need for neonatal research

The building blocks: basic researchPups to babies and back again: T1 Research; No problem can be solved unless it is first identified; From the bedside to the community: T2 research; The role of comparative effectiveness research; Barriers and rewards in translational research in neonatology; Opportunities for translational research in neonatology; Conclusion; References; 9 Telemedicine in Translational Neuroscience; History of telemedicine; Enabling access to care; Telemedicine Core Facility; Neonatal intensive care; Emergency departments; Conclusion; References

10 Implications for the FutureFragmented infrastructure; Incompatible databases; The benefits of translational research; The reshaping of basic science departments; References; Index; Color plates appear between pages 96 and 97.

Sommario/riassunto

Translational research looks to take the latest innovations made in the laboratory setting to translate findings into effective and sustainable medical interventions and improved preventative measures. Funding support is increasingly tied to practical healthcare outcomes, with this trend likely only to increase in coming years, Translational Neuroscience: A Guide to a Successful Program, is a timely guide to developing research programs that bring translational advances to the forefront. Translational Neuroscience provides practical information from scientists with first-hand e