



Long-term Potentiation: Enhancing Neuroscience for 30 Years

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In the thirty years since its discovery by Terje Lomo and Tim Bliss, Long Term Potentiation (LTP) has become one of the most extensively studied topics in contemporary neuroscience. In LTP the strength of synapses between neurons is potentiated following brief but intense activation. LTP is thought to play a central role in learning and memory, though the exact nature of its role is less clear. In spite of years of research, there are many questions about LTP regarding its functional relevance that remain unanswered - for example, is it a model of memory formation, or is it the actual neural mechanism used by the brain to store information?

This volume presents a state of the art account of LTP. It begins with lively accounts, by the scientists most closely involved, of the discovery of LTP and of the experiments that established its basic properties and induction mechanisms. Later contributions contain reviews and new research that cover the range of molecular, cellular, physiological and behavioral approaches to the study of LTP. Provocative, accessible and authoritative, this book makes it clear why LTP continues in equal measure to puzzle and beguile neuroscientists today.

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