## Neuronal Network Dynamics in 2D and 3D in vitro Neuroengineered Systems



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Springer-Verlag Gmbh Mrz 2016, 2016. Buch. Condition: Neu. Neuware - The bookpresents a new, powerful model of neuronal networks, consisting of a three-dimensional neuronal culture in which 3D neuronal networks are coupled to micro-electrode-arrays (MEAs). It discusses the main advantages of the three-dimensional system compared to its two-dimensional counterpart, and shows that the network dynamics, recorded during both spontaneous and stimulatedactivity, differs between the two models, with the 3D system being better able to emulate the in vivo behaviour of neural networks. The book offers an extensive analysis of the system, from the theoretical background, to its design and applications in neuropharmacological studies. Moreover, it includes a concise yet comprehensive introduction to both 2D and 3D neuronal networks coupled to MEAs, and discusses the advantages, limitations and challenges of their applications as cellular and tissue-like in vitro experimental model systems. 148 pp. Englisch.

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