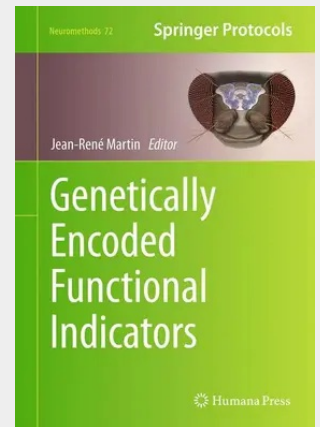


Genetically Encoded Functional Indicators

In the last decade, several different optical imaging techniques, either based on various voltage or calcium dyes, or more recently on modified fluorescent or bioluminescent proteins (genetically encoded) that are sensitive to calcium, have been developed to study neuronal activity, and especially groups of neurons, with the goal of mapping and deciphering the neural code underlying major neurophysiological functions. *Genetically Encoded Functional Indicators* brings together expert contributors to present the development of recent genetic techniques that allow for generating genetically encoded activity sensors in order to investigate neuronal activity. Each chapter describes a specific sensor and its utilization to study neuronal activity in a particular way. Written in the *Neuromethods* series style, chapters contain the kind of key description and implementation advice that guarantees successful results.

Helpful and easy to use, *Genetically Encoded Functional Indicators* aims to inspire students and researchers and to serve as a useful guide to those who wish to start using these different brain imaging techniques and require a bit of guidance in how best to choose a technique to match the goal of their study.

In the last decade, several different optical imaging techniques, either based on various voltage or calcium dyes, or more recently on modified fluorescent or bioluminescent proteins (genetically encoded) that are sensitive to calcium, have been developed to study neuronal activity, and especially groups of neurons, with the goal of mapping and deciphering the neural code underlying major neurophysiological functions. *Genetically Encoded Functional Indicators* brings together expert contributors to present the development of recent genetic techniques that allow for generating genetically encoded activity sensors in order to investigate neuronal activity. Each chapter describes a specific sensor and its utilization to study neuronal activity in a particular way. Written in the *Neuromethods* series style, chapters contain the kind of key description and implementation advice that guarantees successful results. Helpful and easy to use, *Genetically Encoded Functional Indicators* aims to inspire students and researchers and to serve as a useful guide to those who wish to start using these different brain imaging techniques and require a bit of guidance in how best to choose a technique to match the goal of their study.



106,99 €

99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781627030137

Medium: Buch

ISBN: 978-1-62703-013-7

Verlag: Humana

Erscheinungstermin: 01.08.2012

Sprache(n): Englisch

Auflage: 2012

Serie: Neuromethods

Produktform: Gebunden

Gewicht: 555 g

Seiten: 169

Format (B x H): 183 x 260 mm

