Functional Neuromarkers for Psychiatry

Description: Functional Neuromarkers for Psychiatry explores recent advances in neuroscience that have allowed scientists to discover functional neuromarkers of psychiatric disorders. These neuromarkers include brain activation patterns seen via fMRI, PET, qEEG, and ERPs. The book examines these neuromarkers in detail—what to look for, how to use them in clinical practice, and the promise they provide toward early detection, prevention, and personalized treatment of mental disorders.

The neuromarkers identified in this book have a diagnostic sensitivity and specificity higher than 80%. They are reliable, reproducible, inexpensive to measure, noninvasive, and have been confirmed by at least two independent studies. The book focuses primarily on the analysis of EEG and ERPs. It elucidates the neuronal mechanisms that generate EEG spontaneous rhythms and explores the functional meaning of ERP components in cognitive tasks. The functional neuromarkers for ADHD, schizophrenia, and obsessive-compulsive disorder are reviewed in detail. The book highlights how to use these functional neuromarkers for diagnosis, personalized neurotherapy, and monitoring treatment results.

- Identifies specific brain activation patterns that are neuromarkers for psychiatric disorders
- Includes neuromarkers as seen via fMRI, PET, qEEG, and ERPs
- Addresses neuromarkers for ADHD, schizophrenia, and OCD in detail
- Provides information on using neuromarkers for diagnosis and/or personalized treatment

Contents:

Introduction

Part 1
Methods of assessing neuromarkers Chapter 1.1
Theory of measurement Chapter 1.2
Psychometrics and neuropsychological assessment Chapter 1.3
Functional MRI Chapter 1.4
Positron emission tomography Chapter 1.5
Spontaneous electroencephalogram Chapter 1.6
Event-related potentials

Part 2
Neuromarkers of cortical self-regulation Chapter 2.1
Infraslow electrical oscillations Chapter 2.2
Alpha rhythms Chapter 2.3
Beta and gamma rhythms Chapter 2.4
Frontal midline theta rhythm

Part 3
Information flow within the brain Chapter 3.1
Sensory systems and attention modulation Chapter 3.2
Executive system and cognitive control Chapter 3.3
Affective system, emotions and stress Chapter 3.4
Memory systems

Part 4
Methods of neuro-modulation Chapter 4.1
Pharmacological approach Chapter 4.2
Neurofeedback Chapter 4.3
Electroconvulsive therapy Chapter 4.4
Transcranial Direct Current Stimulation Chapter 4.5
Transcranial magnetic stimulation Chapter 4.6
Deep Brain Stimulation

Part 5
Neuromarkers in psychiatry Chapter 5.1
Attention deficit hyperactivity disorder Chapter 5.2
Schizophrenia Chapter 5.3
Obsessive-compulsive disorder

Part 6
Assessing functional neuromarkers Chapter 6.1
Working hypothesis Chapter 6.2
Technical implementation Chapter 6.3
Testing working hypothesis: spontaneous EEG Chapter 6.4
Testing working hypothesis: Event-Related Proposals Chapter 6.5
Monitoring treatment effects

Part 7
The State of the Art: Overview

Chapter 7.1
Objective Measures of Human Brain Functioning

Chapter 7.2
Rhythms of the Healthy Brain

Chapter 7.3
Information Flow in the Health Brain

Chapter 7.4
Current Treatment Options in Psychiatry

Chapter 7.5
Functional Neuromarkers in Diseased Brain

Chapter 7.6
Implementation in Clinical Practice

Ordering: 
Order Online - [http://www.researchandmarkets.com/reports/3692633/](http://www.researchandmarkets.com/reports/3692633/)
Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

Product Name: Functional Neuromarkers for Psychiatry
Web Address: http://www.researchandmarkets.com/reports/3692633/
Office Code: SC

Product Format
Please select the product format and quantity you require:

Quantity
Hard Copy (Hard Back): [ ] USD 123 + USD 28 Shipping/Handling

* Shipping/Handling is only charged once per order.
* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr</th>
<th>Mrs</th>
<th>Dr</th>
<th>Miss</th>
<th>Ms</th>
<th>Prof</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address: *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ________________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World