

1. Record Nr.	UNINA9910131471703321
Titolo	The treatment of epilepsy // edited by Simon Shorvon, Emilio Perucca, Jerome Engel, Jr. ; contributors, Patrick Adjei [and one hundred thirty others]
Pubbl/distr/stampa	Chichester, England : , : Wiley Blackwell, , 2016 ©2016
ISBN	1-118-93697-3 1-118-93699-X 1-118-93698-1
Edizione	[Fourth edition.]
Descrizione fisica	1 online resource (2765 p.)
Disciplina	617.481
Soggetti	Epilepsy - Surgery Anticonvulsants - Therapeutic use Epilepsy - Chemotherapy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Title page; Copyright; List of Contributors; Preface to the Fourth Edition; Preface to the First Edition; Historical Introduction The Drug Treatment of Epilepsy from 1857 to 2015; Commentary; Acknowledgement; References; Section I Introduction; 1 Definition (Terminology) and Classification in Epilepsy: A Historical Survey and Current Formulation, with Special Reference to the ILAE; Definition; Classification; The future of classification schemes of epilepsy; Definition; Definition and classification - status epilepticus; Afterthought; Acknowledgement; References 2 Differential Diagnosis of EpilepsyIntroduction; General approach to the diagnosis of episodic disturbances; Syncope; Non-epileptic seizures; Panic disorder; Migraine; Sleep disorders; Vertigo; Movement disorders; Cerebral ischaemia; Endocrine and metabolic abnormalities; Transient global amnesia; References; 3 Mechanisms of Epileptogenesis; Membrane ion channels; Membrane ion channels as targets for antibodies in acquired autoimmune disorders; Network and system involvement in epileptogenesis; Epileptogenesis as a process;

New targets for antiepileptic and antiepileptogenic strategies

ConclusionsReferences; 4 Antiepileptic Drug Discovery; Characteristics of the ideal model system; The current era of AED discovery; Anticonvulsant Screening Program; Early identification of antiepileptic activity; MES, scPTZ and 6-Hz tests; Differentiation of anticonvulsant activity; Pharmacological profile and potential clinical utility; Pharmacoresistant seizure models; Therapeutic index and toxicity assessment; Aetiologically relevant model systems; Beyond the seizure; Antiepileptogenesis and disease modification (see also Chapter 8); Conclusions; Acknowledgement; References

5 Antiepileptic Drug DevelopmentIntroduction; Overview on clinical studies and trials for drug development; Opportunities for developing better antiseizure AEDs; Development of epilepsy drugs beyond suppressing seizures; Conclusions; Acknowledgements; References; 6

Mechanisms of Antiepileptic Drug Action; Main targets; Other targets; References; 7 Mechanisms of Drug Resistance and Tolerance; Introduction; The concept of drug resistance in epilepsy; Disease-related mechanisms of drug resistance in epilepsy; Drug-related mechanisms of drug resistance in epilepsy

Pharmacogenetic mechanisms of drug resistance in epilepsyProof-of-concept of drug resistance hypotheses; Conclusions; References; 8

Epilepsy Biomarkers; Introduction; Need for biomarkers; Mechanisms of epilepsy; Potential biomarkers; Research to identify biomarkers; Acknowledgements; References; Section II Principles of Medical Management; 9 General Principles of Medical Management; Aims of treatment; When should treatment be started?; Initiation of treatment and dose optimization; Assessing clinical response; What next when the initial treatment fails? - monotherapy and combination therapy How long should treatment be continued?

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