Record Nr. UNINA9910830522003321 Anaesthesia science [[electronic resource] /] / edited by Nigel R. **Titolo** Webster and Helen F. Galley Pubbl/distr/stampa Malden, Mass., : Blackwell, 2006 **ISBN** 1-280-74301-8 9786610743018 0-470-79096-2 0-470-75529-6 1-4051-7143-X Descrizione fisica 1 online resource (478 p.) Altri autori (Persone) WebsterNigel R GalleyHelen F Disciplina 617.9 617.96 Soggetti Anesthesia Surgery Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Anaesthesia Science: Contents: List of Contributors: Preface: Part 1: Pharmacology: 1 Pharmacokinetic principles: 2 Pharmacodynamics: 3 Pharmacogenomics; 4 Receptors and second messenger systems; 5 Anaphylaxis; 6 Reflections on chirality; 7 Ion channels; 8 Immunosuppression; 9 Mechanisms of anaesthesia: a role for voltagegated K channels?; 10 Use and abuse of antibiotics; Part 2: Physiology; 11 Inflammation and immunity; 12 Shock: pathogenesis and pathophysiology: 13 Cellular physiology: 14 Acid-base balance: albumin and strong ions; 15 Fluids and electrolytes; 16 The microcirculation 17 Respiratory physiology at the molecular level18 Non-respiratory functions of the lung; 19 The brain as a site of inflammation after acute injury; 20 Heart failure; 21 The hormonal and metabolic response to anaesthesia, surgery and trauma; 22 Temperature regulation; 23 Theories of pain; 24 Neuromuscular transmission and function; Part 3:

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Anaesthesia Science presents the scientific foundations upon which the clinical practice of anaesthesia and care of the critically ill are based. Written on the basis that basic science underlies the practice of anaesthesiaContributors include some of the world's most eminent anaesthesiologistsProvides coverage on less well appreciated aspects of the subject, such as the microcirculation, multi-organ failure, and the theory of painThoroughly integrates the clinical practice of anaesthesia with basic sciences, providing all the infor