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| Autore | Fabrigar Leandre R |
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| ISBN | 0-19-025584-6 1-283-62144-4 9786613933898 0-19-981351-5 |
| Descrizione fisica | 1 online resource (170 p.) |
| Collana | Understanding statistics |
| Altri autori (Persone) | WegenerDuane Theodore |
| Disciplina | 001.4/22 001.422 |
| Soggetti | Factor analysis Psychology - Mathematical models Social sciences - Mathematical models Electronic books. |
| 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 | Cover; Contents; CHAPTER 1 Introductory Factor Analysis Concepts; The Goals of Factor Analysis; A Conceptual Introduction to the Common Factor Model; A Graphical Depiction of the Common Factor Model; A Simple Mathematical Introduction to the Common Factor Model; Chapter Summary and Book Overview; CHAPTER 2 Requirements for and Decisions in Choosing Exploratory Common Factor Analysis; Is EFA Suitable for the Research Question?; Are the Data Suitable for Factor Analysis?; Properties of the Measured Variables; Is an Exploratory or Confirmatory Approach Most Appropriate? The Common Factor Model or Principal Component Model?Summary; CHAPTER 3 Requirements and Decisions for Implementing Exploratory Common Factor Analysis; Choosing a Method of Fitting the Common Factor Model; Determining the Appropriate Number of Common Factors; Rotating Factor Analysis Solutions; Concluding Comments; CHAPTER 4 Factor Analysis Assumptions; Assumptions Underlying the Common Factor Model; Assumptions Related to Model Fitting |

Procedures; Summary and Conclusions; CHAPTER 5 Implementing and Interpreting Exploratory Factor Analysis; Context for the Analysis: Pre-Analysis Decisions

Example Research Question and Measures Conducting the Analysis: Implementation of EFA; Concluding Comments; CHAPTER 6 Summary, Conclusions, and Recommendations; Understanding the Common Factor Model; Determining if Exploratory Factor Analysis is Appropriate; Decisions in Conducting Exploratory Factor Analysis; Assumptions Underlying the Common Factor Model and Fitting Procedures; Implementing and Interpreting EFA; Concluding Thoughts; Recommended Readings and Supplementary Programs; Index; A; B; C; D; E; F; G; H; I; K; L; M; N; O; P; Q; R; S; T; U; V

Sommario/riassunto

Exploratory Factor Analysis (EFA) has played a major role in research conducted in the social sciences for more than 100 years, dating back to the pioneering work of Spearman on mental abilities. Since that time, EFA has become one of the most commonly used quantitative methods in many of the social sciences, including psychology, business, sociology, education, political science, and communications. To a lesser extent, it has also been utilized within the physical and biological sciences. Despite its long and widespread usage in many domains, numerous aspects of the underlying theory and appl

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| 2. Record Nr. | UNINA9910961761803321 |
| Titolo | Assessment of future scientific needs for live variola virus // Committee on the Assessment of Future Scientific Needs for Live Variola Virus, Board on Global Health, Institute of Medicine |
| Pubbl/distr/stampa | Washington, D.C., : National Academy Press, 1999 |
| ISBN | 9786610185993 9780309173193 0309173191 9781280185991 1280185996 9780309596985 030959698X 9780585068008 0585068003 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (126 pages) : illustrations |
| Collana | The compass series |
| Disciplina | 616.9/12 |
| Soggetti | Smallpox - Research Smallpox - Prevention Smallpox vaccine Virology - Cultures and culture media Variola virus Smallpox - prevention & control Containment of Biohazards |
| Lingua di pubblicazione | Inglese |
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| Livello bibliografico | Monografia |
| Note generali | Bibliographic Level Mode of Issuance: Monograph |
| Nota di bibliografia | Includes bibliographical references (p. 87-91). |
| Nota di contenuto | Assessment of Future Scientific Needs for Live Variola Virus -- Copyright -- Preface -- Acknowledgments -- REVIEWERS -- Contents -- Executive Summary -- SCOPE -- SCIENTIFIC NEEDS FOR LIVE AND REPLICATION-DEFECTIVE VARIOLA VIRUS -- OVERALL CONCLUSIONS -- Part I Introduction -- 1 Introduction -- BACKGROUND -- CONTEMPORARY CONTEXT -- SCOPE -- SCIENTIFIC NEEDS FOR VARIOLA VIRUS -- ORGANIZATION OF THIS REPORT -- Part II Smallpox |

and Its Control -- 2 Variola Virus and Other Orthopoxviruses --
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REPLICATION -- PROPERTIES OF SPECIFIC ORTHOPOXVIRUSES -- 3
Clinical Features of Smallpox -- ENTRY AND INFECTION --
DISSEMINATION -- THE RASH -- LESIONS OF THE MUCOUS MEMBRANES
-- EFFECTS ON OTHER ORGANS -- IMMUNE RESPONSE -- IMMUNITY
AGAINST SMALLPOX -- 4 Epidemiology -- CHARACTERISTICS OF
HISTORICAL OUTBREAKS -- LIKELY CHARACTERISTICS OF FUTURE
SMALLPOX OUTBREAKS -- CONTROL STRATEGIES -- 5 Variola Virus
Stocks Following Eradication of Smallpox -- ESTABLISHMENT OF
INTERNATIONAL REPOSITORIES -- DECISION BY THE WORLD HEALTH
ASSEMBLY TO DESTROY VARIOLA VIRUS STOCKS -- U.S. RESEARCH ON
SMALLPOX -- RESEARCH AT CDC AND USAMRIID -- Part III Scientific
Needs for Variola Virus -- 6 Development of Antiviral Agents -- IN
VITRO ASSAYS -- ANIMAL MODELS -- 7 Development of Vaccines --
CURRENT STATUS OF VACCINIA VACCINE PREPARATIONS --
EVALUATION OF VACCINIA VACCINE DERIVED FROM TISSUE CULTURE --
EVALUATION OF NOVEL VACCINES -- 8 Detection and Diagnosis --
ENVIRONMENTAL DETECTION -- DIAGNOSIS OF INFECTION --
ALTERNATIVES TO LIVE VIRUS -- 9 Bioinformatics -- VARIABILITY OF
VARIOLA VIRUS -- POTENTIAL DEVELOPMENTS -- 10 Understanding of
the Biology of Variola Virus -- VIRUS-CELL INTERACTIONS -- VIRUS-
HOST INTERACTIONS -- 11 Research on the Expressed Protein Products
of Variola -- SYNTHESIS OF VARIOLA PROTEINS.
POTENTIAL UTILITY OF VARIOLA PROTEINS -- Part IV Findings -- 12
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NEEDS FOR LIVE VARIOLA VIRUS -- OVERALL CONCLUSIONS --
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Appendix C Committee and Staff Biographies -- Staff.

Sommario/riassunto

In 1980, the World Health Organization (WHO) officially declared that smallpox had been eradicated. In 1986, WHO's international Ad Hoc Committee on Orthopox Virus Infections unanimously recommended destruction of the two remaining official stocks of variola virus, one at the Centers for Disease Control and Prevention and the other at the VECTOR laboratory in Siberia. In June 1999, WHO decided to delay the destruction of these stocks. Informing that decision was Assessment of Future Scientific Needs for Variola Virus , which examines: -- Whether the sequenced variola genome, vaccinia, and monkey pox virus are adequate for future research or whether the live variola virus itself is needed to assist in the development of antiviral therapies. -- What further benefits, if any, would likely be gained through the use of variola in research and development efforts related to agent detection, diagnosis, prevention, and treatment. -- What unique potential benefits, if any, the study of variola would have in increasing our fundamental understanding of the biology, host-agent interactions, pathogenesis, and immune mechanisms of viral diseases.
