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Autore	Jayne John E (John Eben), <1943->
Titolo	Selectors [[electronic resource] /] / John E. Jayne and C. Ambrose Rogers
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Altri autori (Persone)	RogersC. A <1920-> (Claude Ambrose)
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Soggetti	Selection theorems Electronic books.
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references (p. [161]-163) and index.
Nota di contenuto	Front matter -- Contents -- Preface -- Introduction -- Chapter 1. Classical results -- Chapter 2. Functions that are constant on the sets of a Functions that are constant on the sets of a disjoint discretely - decomposable family of F-sets -- Chapter 3. Selectors for upper semi-continuous functions with non-empty compact values -- Chapter 4. Selectors for compact sets -- Chapter 5. Applications -- Chapter 6. Selectors for upper semi-continuous set-valued maps with nonempty values that are otherwise arbitrary -- Chapter 7. Further applications -- Bibliography -- Index
Sommario/riassunto	Though the search for good selectors dates back to the early twentieth century, selectors play an increasingly important role in current research. This book is the first to assemble the scattered literature into a coherent and elegant presentation of what is known and proven about selectors--and what remains to be found. The authors focus on selection theorems that are related to the axiom of choice, particularly selectors of small Borel or Baire classes. After examining some of the relevant work of Michael and Kuratowski & Ryll-Nardzewski and presenting background material, the text constructs selectors obtained as limits of functions that are constant on the sets of certain partitions

	of metric spaces. These include selection theorems for maximal monotone maps, for the subdifferential of a continuous convex function, and for some geometrically defined maps, namely attainment and nearest-point maps. Assuming only a basic background in analysis and topology, this book is ideal for graduate students and researchers who wish to expand their general knowledge of selectors, as well as for those who seek the latest results.

2.

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Titolo	Transgenic insects : techniques and applications / / Mark Q. Benedict, editor
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Descrizione fisica	1 online resource (401 p.)
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Contents; Contributors; Acknowledgements; Preface; PART 1: GERMLINE TRANSFORMATION TECHNOLOGY; 1 Transposons for Insect Transformation; 1.1 Transposable Elements; 1.2 DNA Transposons; 1.3 Transposons with Activity in Insects; 1.4 Summary; References; 2 Transposon-Based Technologies for Insects; 2.1 Transposon-Based Technologies; 2.2 Mutagenesis; 2.3 Germ-Line Transformation; 2.4 Modular Expression Systems; 2.5 Cell/Genetic Ablation; 2.6 Transgene Mis-expression; 2.7 Transgenic Gene Silencing; 2.8 Site-Specifi c Recombination; 2.9 Genetic Sensors; 2.10 Conclusions; References 3 Sex-, Tissue- and Stage-Specifi c Transgene Expression3.1

Introduction; 3.2 Gene Regulation in Insects; 3.3 Th e Basic Genetic Construct; 3.4 Controlling for Position Eff ects; 3.5 General Considerations for Promoter Choice; 3.6 Sex-Specifi c Transgene Expression; 3.7 Tissue-Specifi c Expression; 3.8 Stage-Specifi c Expression; 3.9 Future Prospects; 3.10 Applications of Sex-, Tissue- and Stage-Specifi c Transgene Expression; References; 4 Docking Systems for Site-Directed Transgene Integration; 4.1 Background and Introduction
4.2 Site-Specifi c Transgenesis - Generation of Phase 1 Docking Strains4.3 Site-Specifi c Transgenesis - Generation of Phase 2 Integrations; 4.4 Recombinase-Mediated Cassette Exchange; 4.5 Future Developments in the Use of Docking Systems; 4.6 Docking Systems Combined with Transposon Stabilization Strategies; 4.7 Integration of Large, Complex Transgene Constructs; 4.8 Construction of Complex Transgenes by Sequential Use of Integrases; References; 5 Inducible and Repressible Systems for Transgene Expression; 5.1 Introduction; 5.2 Naturally Occurring Systems of Conditional Expression
5.3 Synthetic Systems5.4 Conclusions; References; 6 Sex Ratio Manipulation for Insect Population Control; 6.1 Introduction; 6.2 Overview of Applications and General Principles; 6.3 Meiotic Drive; 6.4 Sex-Specifi c Lethality; 6.5 Manipulation of Sex Determination Mechanisms; 6.6 Conclusions; References; 7 Conditional Dominant Lethals - RIDL; 7.1 Re-engineering the Sterile Insect Technique; 7.2 Sterile Insects and Genetic Control; 7.3 Engineered Traits; 7.4 Integrated Pest Management; 7.5 Resistance Management; 7.6 Molecular Designs; 7.7 Choosing an Eff ector; 7.8 Choice of Switch
7.9 Strain Performance7.10 Penetrance; 7.11 Resistance; 7.12 Field Experience and Future Prospects; Notes; Acknowledgements; References; PART 2: APPLICATIONS OF TRANSGENIC INSECTS; 8 Tephritid Fruit Fly Transgenesis and Applications; 8.1 Introduction; 8.2 Transformation with the Minos Vector System; 8.3 Transformation with the piggyBac Vector System; 8.4 Transformation with the Hermes Vector System; 8.5 Marker Systems for Transformant Organismal and Tissue Detection in Tephritid Flies; 8.6 Post-integration Stabilization of Transposon Vectors in Tephritid Flies
8.7 Site-Specifi c Genomic Targeting in Tephritids

Sommario/riassunto

Insect transgenesis promises improvements in agriculture, pharmaceuticals and public health. Many important insects can now be routinely transformed with effectors that have useful applications. Agriculture presents the largest market for transgenic insects and has a foundational history of success with sterile insect technique for control of pests including Mediterranean fruit flies and screwworms. Biotechnology will contribute superior markers, suppressible sterility and sex-conversion. Public health is also seeing transgenic mosquitoes developed which suppress natural populations and are in