

1. Record Nr.	UNINA9910159560303321
Titolo	The Cricket as a Model Organism : Development, Regeneration, and Behavior / / edited by Hadley Wilson Horch, Taro Mito, Aleksandar Popadi, Hideyo Ohuchi, Sumihare Noji
Pubbl/distr/stampa	Tokyo : , : Springer Japan : , : Imprint : Springer, , 2017
ISBN	4-431-56478-0
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (IX, 376 p. 106 illus., 62 illus. in color.)
Disciplina	616.027
Soggetti	Animal models in research Behavioral sciences Developmental biology Food—Biotechnology Animal Models Behavioral Sciences Developmental Biology Food Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Part I Development and Regeneration -- 1 History of cricket biology -- 2 Early development and diversity of <i>Gryllus</i> appendages -- 3 Leg formation and regeneration -- 4 Eye development and photoreception of a hemimetabolous insect, <i>Gryllus bimaculatus</i> -- 5 An early embryonic diapause stage and developmental plasticity in the band-legged ground cricket <i>Dianemobius nigrofasciatus</i> -- Part II Physiology, Nervous System, and Behavior -- 6 Molecular approach to the circadian clock mechanism in the cricket -- 7 Hormonal circadian rhythm in the wing-polymorphic cricket <i>Gryllus firmus</i> : Integrating chronobiology, endocrinology and evolution -- 8 Plasticity in the cricket central nervous system -- 9 Learning and memory -- 10 Neurons and networks underlying singing behaviour -- 11 The cricket auditory pathway: neural processing of acoustic signals -- 12 Neuromodulators and the control of aggression in crickets -- 13 Fighting behavior—Understanding the mechanisms of group size-

dependent aggression. -- 14 Cercal system-mediated anti-predator behaviors -- 15 The biochemical basis of life history adaptation: *Gryllus* studies lead the way -- 16 Reproductive behavior and physiology in the cricket *Gryllus bimaculatus* -- Part III Experimental Approaches -- 17 Protocols for olfactory conditioning experiments -- 18 Optical recording methods--How to measure of neural activities with Calcium imaging -- 19 Trackball systems for analyzing cricket phonotaxis -- 20 Synthetic approaches for observing and measuring cricket behaviors -- 21 Protocols in the cricket -- BM Index.

Sommario/riassunto

This book covers a broad range of topics about the cricket from its development, regeneration, physiology, nervous system, and behavior with remarkable recent updates by adapting the new, sophisticated molecular techniques including RNAi and other genome editing methods. It also provides detailed protocols on an array of topics and for basic experiments on the cricket. While the cricket has been one of the best models for neuroethological studies over the past 60 years, it has now become the most important system for studying basal hemimetabolous insects. The studies of *Gryllus* and related species of cricket will yield insight into evolutionary features that are not evident in other insect model systems, which mainly focus on holometabolous insects such as *Drosophila*, *Tribolium*, and *Bombyx*. Research on crickets and grasshoppers will be important for the development of pest-control strategies, given that some of the most notorious pests also belong to the order Orthoptera. At the same time, crickets possess an enormously high “food conversion efficiency”, making them a potentially important food source for an ever-expanding human population. This volume provides a comprehensive source of information as well as potential new applications in pest management and food production of the cricket. It will inspire scientists in various disciplines to use the cricket model system to investigate interesting and innovative questions.

2. Record Nr.	UNINA9910298990903321
Autore	Richter Michael
Titolo	User-Centred Engineering : Creating Products for Humans / / by Michael Richter, Markus Flückiger
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2014
ISBN	3-662-43989-1
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (141 p.)
Disciplina	004 004.6 005.1 005.437
Soggetti	User interfaces (Computer systems) Software engineering Computer organization Management information systems Computer science User Interfaces and Human Computer Interaction Software Engineering Computer Systems Organization and Communication Networks Management of Computing and Information Systems
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	Foreword -- Introduction -- A user-centred process -- The 7±2 most important user-centred techniques -- Getting a handle on UX – planning -- A user-oriented strategy: company-wide UX -- That's life – examples from actual practice.
Sommario/riassunto	A new product can be easy or difficult to use, it can be efficient or cumbersome, engaging or dispiriting, it can support the way we work and think – or not. What options are available for systematically addressing such parameters and provide users with an appropriate functionality, usability and experience? In the last decades, several fields have evolved that encompass a user-centred approach to create

better products for the people who use them. This book provides a comprehensible introduction to the subject. It is aimed first and foremost at people involved in software and product development – product managers, project managers, consultants and analysts, who face the major challenge of developing highly useful and usable products. Topics include: The most important user-centred techniques and their alignment in the development process Planning examples of user-centred activities for projects User-oriented approaches for organisations Real-life case studies Checklists, tips and a lot of background information provide help for practitioners.
