

| | |
|-------------------------|--|
| 1. Record Nr. | UNINA9910788009003321 |
| Titolo | Genomics, physiology and behaviour of social insects // edited by Amro Zayed, Clement F. Kent ; contributors, Patrick Abbot [and twenty-three others] |
| Pubbl/distr/stampa | Amsterdam, [Netherlands] : , : Academic Press, , 2015 ©2015 |
| ISBN | 0-12-802348-1 |
| Edizione | [First edition.] |
| Descrizione fisica | 1 online resource (380 p.) |
| Collana | Advances in Insect Physiology, , 0065-2806 ; ; Volume 48 |
| Disciplina | 595.71782 |
| Soggetti | Insect societies Insects - Genetics Insects - Physiology Insects - Behavior |
| 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 at the end of each chapters and index. |
| Nota di contenuto | Front Cover; Genomics, Physiology and Behaviour of Social Insects; Copyright; Contents; Contributors; Foreword; Introduction to Advances in Insect Physiology: Genomics, Physiology and Behaviour of Social Insects; References; Chapter One: Old Threads Make New Tapestry- Rewiring of Signalling Pathways Underlies Caste Phenotypic Plasticity in the Ho ...; 1. Introduction; 2. Differential Feeding of Honey Bee Larvae; 3. The Secrets of Royal Jelly; 4. The Role of JH in Honey Bee Caste Development; 5. IIS, TOR and Egfr Pathway Activities in Honey Bee Caste Development 6. Endogenous Hypoxia in Worker Larvae-Convergence of Nutrient Signalling and Oxidative Metabolism7. Epigenetics and Caste Development; 8. Are There Commonalities Between Context-Dependent Signalling Pathways in Larval Caste Development and Adult Caste Funct ...; 9. Conclusions; Acknowledgements; References; Chapter Two: The Physiological and Genomic Bases of Bumble Bee Social Behaviour; 1. Introduction; 1.1. The B. terrestris colony life history; 1.2. The social history of the B. terrestris colony; 1.3. Alternative life history strategies |

1.4. Ultimate mechanisms shaping bumble bee social behaviour
2. Kin Conflict over Sex Ratios in Bumble Bees; 3. Behavioural, Physiological, and Genetic Traits Associated with the Solitary Phase; 3.1. Pre-mating and mating behaviour; 3.2. Diapause in newly mated queens; 3.3. Genomic mechanisms underlying the queen solitary phase; 4. Behavioural, Physiological, and Genetic Traits Associated With the Eusocial Phase; 4.1. Who wins the conflict over male production?; 4.2. Underlying hormonal mechanisms and queen effect on worker reproduction
4.3. The chemistry underlying queen-worker conflict over reproduction-Is there a queen pheromone?
4.4. Genomic factors underlying queen-worker conflict; 5. Worker-Worker Conflict over Reproduction; 5.1. Rates of worker reproduction; 5.2. Worker reproductive hierarchy; 5.3. Aggression and hierarchy formation; 5.4. Chemical communication versus dominance behaviour; 5.5. Hormonal regulation of reproduction and dominance; 5.6. Genomic mechanisms underlying worker-worker conflict; 5.7. Factors affecting dominance and reproduction in workers
5.8. Drifting bees: Fortuitous error or intra-specific parasitism?
5.9. Extrapolating from QL groups to whole QR colonies; 6. Larval Development and Mechanisms Underlying Caste Determination; 6.1. Larval development; 6.2. The critical period for caste determination; 6.3. Hormonal and genomic regulation of caste determination; 6.4. Physiological and social factors affecting caste determination; 6.5. Nutrition as a factor affecting caste determination; 6.6. The effect of queen-worker conflict on caste determination; 6.7. Is there a queen pheromone that regulates caste determination?
7. Conclusions and Future Directions
