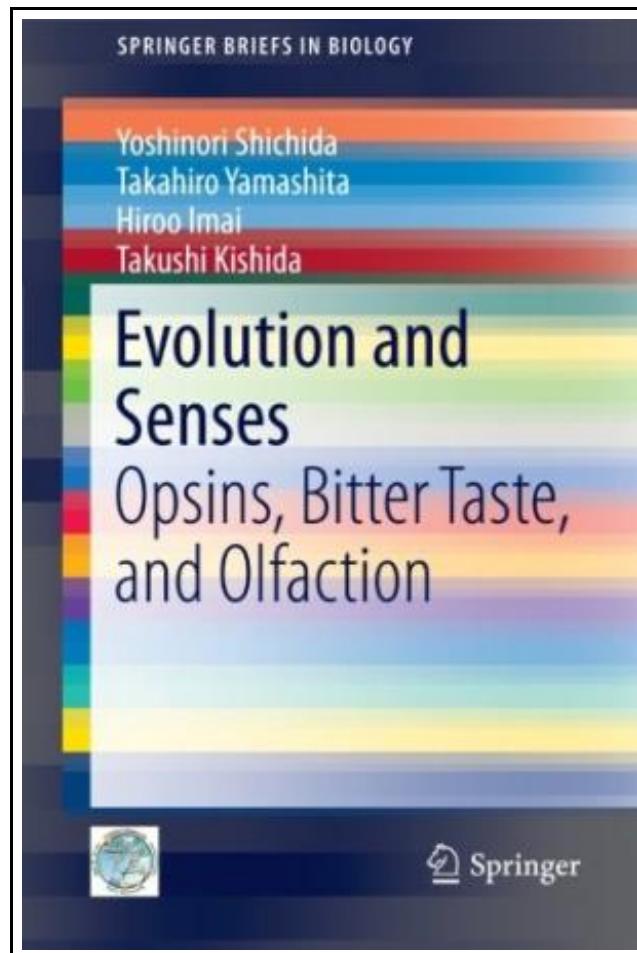


Evolution and Senses: Opsins, Bitter Taste, and Olfaction (Paperback)



Filesize: 4.21 MB

Reviews

It is really an awesome ebook that we actually have actually study. It can be loaded with wisdom and knowledge Once you begin to read the book, it is extremely difficult to leave it before concluding.
(Mr. Coleman Ortiz)

EVOLUTION AND SENSES: OPSINS, BITTER TASTE, AND OLFACTION (PAPERBACK)

[DOWNLOAD](#)

To download **Evolution and Senses: Opsins, Bitter Taste, and Olfaction (Paperback)** eBook, please refer to the web link listed below and download the file or get access to other information which are related to **EVOLUTION AND SENSES: OPSINS, BITTER TASTE, AND OLFACTION (PAPERBACK)** ebook.

Springer Verlag, Japan, Japan, 2013. Paperback. Book Condition: New. 2013 ed.. 226 x 152 mm. Language: English . Brand New Book. In this book, we focus on the sensing and the evolution of animals. Using the five senses (visual, auditory and olfactory perception, and taste and touch), we can receive environmental stimuli and respond to them. Changes of these sensitivities might cause changes of habitat, activity timing, diet, etc. and vice versa. Recent advances in genome and molecular analysis enable us to investigate certain changes of the receptors or mechanisms involved in sensing and give us clues to understand the evolution of animals related to them. Among these studies, here we will learn about three topics. The first work focuses on the molecular evolution of opsins. In addition to the well-known function of opsins as visual receptors, opsins can be related with non-visual photoreception such as photoentrainment of circadian rhythm, photoperiodism and background adaptation. Molecular phylogenetic studies revealed that all opsin genes are evolved from one ancient opsin gene. The evaluation of the functions of each extant opsin protein based on the molecular features enables us to predict the molecular evolution and diversification of opsins during the evolution of animals. These studies will shed light on which amino-acid substitutions cause the functional diversification of opsins and how they influenced the evolution of animals. The second work is about bitter taste perception. It is a key detection mechanism against the ingestion of bioactive substances. Genetic and behavioral evidence revealed the existence of non-taster Japanese macaques, which originated from a restricted region of Japan. This finding might give a clue for elucidating the ecological, evolutionary, and neurobiological aspects of bitter taste perception of primates, as related to the plants that they sometimes use as foods in their habitats. The third work is...

-  [Read Evolution and Senses: Opsins, Bitter Taste, and Olfaction \(Paperback\) Online](#)
-  [Download PDF Evolution and Senses: Opsins, Bitter Taste, and Olfaction \(Paperback\)](#)
-  [Download ePUB Evolution and Senses: Opsins, Bitter Taste, and Olfaction \(Paperback\)](#)

See Also

**[PDF] From Kristallnacht to Israel: A Holocaust Survivor's Journey (Paperback)**

Click the web link listed below to read "From Kristallnacht to Israel: A Holocaust Survivor's Journey (Paperback)" document.

[Save eBook »](#)

**[PDF] Chicken Licken - Read it Yourself with Ladybird: Level 2 (Paperback)**

Click the web link listed below to read "Chicken Licken - Read it Yourself with Ladybird: Level 2 (Paperback)" document.

[Save eBook »](#)

**[PDF] Goodparents.com: What Every Good Parent Should Know About the Internet (Hardback)**

Click the web link listed below to read "Goodparents.com: What Every Good Parent Should Know About the Internet (Hardback)" document.

[Save eBook »](#)

**[PDF] Fox Tales for Kids: Fifteen Fairy Stories about Foxes for Children (Paperback)**

Click the web link listed below to read "Fox Tales for Kids: Fifteen Fairy Stories about Foxes for Children (Paperback)" document.

[Save eBook »](#)

**[PDF] The Village Watch-Tower (Dodo Press) (Paperback)**

Click the web link listed below to read "The Village Watch-Tower (Dodo Press) (Paperback)" document.

[Save eBook »](#)

**[PDF] Polly Oliver's Problem: A Story for Girls (Paperback)**

Click the web link listed below to read "Polly Oliver's Problem: A Story for Girls (Paperback)" document.

[Save eBook »](#)



[PDF] The Adventures of a Plastic Bottle: A Story about Recycling (Paperback)

Click the link beneath to get "The Adventures of a Plastic Bottle: A Story about Recycling (Paperback)" PDF document.

[Read eBook »](#)



[PDF] American Legends: The Life of Sharon Tate (Paperback)

Click the link beneath to get "American Legends: The Life of Sharon Tate (Paperback)" PDF document.

[Read eBook »](#)



[PDF] Polly Oliver's Problem (Illustrated Edition) (Dodo Press) (Paperback)

Click the link beneath to get "Polly Oliver's Problem (Illustrated Edition) (Dodo Press) (Paperback)" PDF document.

[Read eBook »](#)



[PDF] Violin Concerto, Op.82: Study Score (Paperback)

Click the link beneath to get "Violin Concerto, Op.82: Study Score (Paperback)" PDF document.

[Read eBook »](#)



[PDF] Rose O the River (Illustrated Edition) (Dodo Press) (Paperback)

Click the link beneath to get "Rose O the River (Illustrated Edition) (Dodo Press) (Paperback)" PDF document.

[Read eBook »](#)



[PDF] The Diary of a Goose Girl (Illustrated Edition) (Dodo Press) (Paperback)

Click the link beneath to get "The Diary of a Goose Girl (Illustrated Edition) (Dodo Press) (Paperback)" PDF document.

[Read eBook »](#)