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Biocommunication of Ciliates

- First coherent description of all levels of communication of ciliates
- Serves as a learning tool for research aspects in biocommunication in ciliates
- Will guide scientists in further investigations on ciliate behavior, how they mediate signaling processes between themselves and the environment

This is the first coherent description of all levels of communication of ciliates. Ciliates are highly sensitive organisms that actively compete for environmental resources. They assess their surroundings, estimate how much energy they need for particular goals, and then realise the optimum variant. They take measures to control certain environmental resources. They perceive themselves and can distinguish between 'self' and 'non-self'. They process and evaluate information and then modify their behaviour accordingly. These highly diverse competences show us that this is possible owing to sign(al)-mediated communication processes within ciliates (intra-organismic), between the same, related and different ciliate species (inter-organismic), and between ciliates and non-ciliate organisms (trans-organismic). This is crucial in coordinating growth and development, shape and dynamics. This book further serves as a learning tool for research aspects in biocommunication in ciliates. It will guide scientists in further investigations on ciliate behavior, how they mediate signaling processes between themselves and the environment.

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