

# Pattern recognition in honeybees: Generalization and Categorization



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vorgelegt von

**Silke Stach**

aus Berlin

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1. Gutachter: Prof. Dr. M. Giurfa

2. Gutachter: Prof. Dr. R. Menzel

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This dissertation is based on the following manuscripts:

- I. How honeybees generalize visual patterns to their mirror image and left right transformation

Authors: S. Stach & M. Giurfa (2001)

*Animal Behaviour* 62, 981 – 991

- II. Configural categorization of visual stimuli in a mini brain

Authors: S. Stach & M. Giurfa

Submitted to *Nature*

- III. The influence of training length on visual categorization in honeybees

Authors: S. Stach & M. Giurfa

in preparation for *Behavioral Brain Research*

The contributions of the different authors were as follows:

- I. I performed all experimental studies and data analyses, wrote the manuscript, and discussed it with M. Giurfa
- II. I performed all experimental studies and data analyses, wrote the manuscript, and discussed it with M. Giurfa
- III. I performed all experimental studies and data analyses, wrote the manuscript, and discussed it with M. Giurfa

Additional contributions by persons other than the authors are described in the Acknowledgments section of each chapter.

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