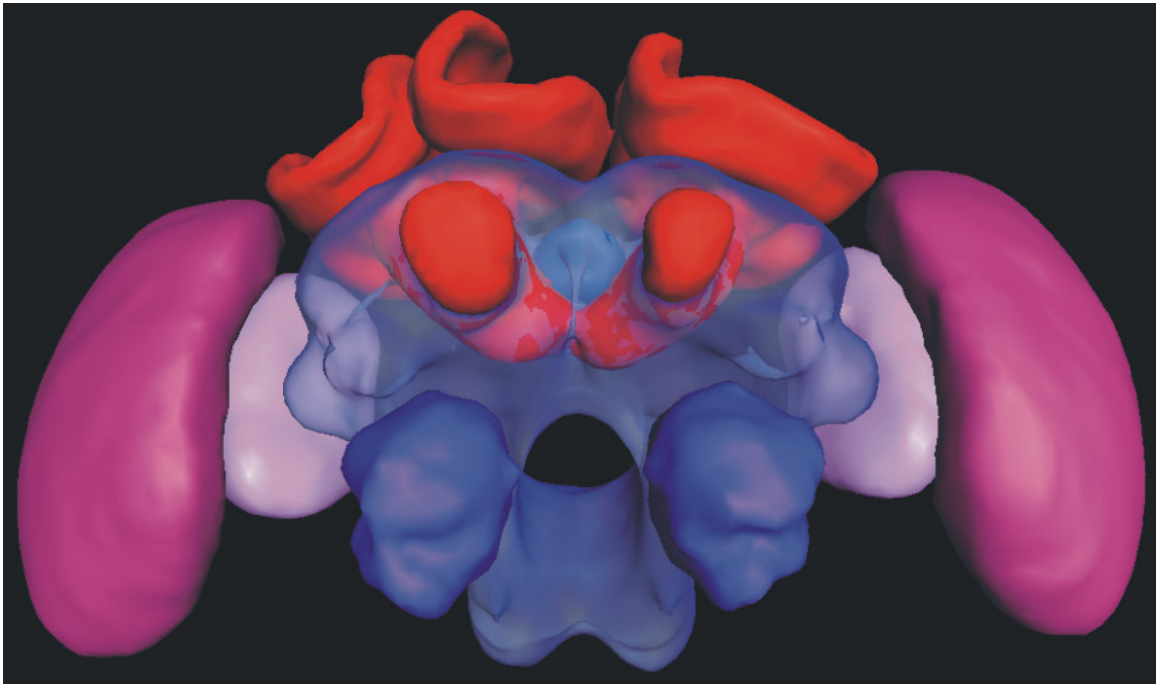


# Die Rolle der Pilzkörper beim olfaktorischen Lernen der Honigbiene (*Apis mellifera*)



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This dissertation is based on the following manuscripts:

- I. Successive olfactory reversal learning in honeybees  
Authors: B. Komischke, M. Giurfa, H. Lachnit and D. Malun (2002)  
*Learning & Memory* 9, 122-129
- II. Non-elemental processing in olfactory discrimination tasks needs bilateral input in honeybees  
Authors: B. Komischke, J. C. Sandoz, H. Lachnit and M. Giurfa (2003)  
*Behavioral Brain Research* 145, 135-143
- III. Partial unilateral lesions of the mushroom bodies affect olfactory learning in honeybees *Apis mellifera* L.  
Authors: B. Komischke, J. C. Sandoz, D. Malun and M. Giurfa  
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The contributions of the different authors were as follows:

- I. I performed all experimental studies and data analyses, wrote the manuscript supported by M. Giurfa and discussed it with H. Lachnit and D. Malun.
- II. I performed all experimental studies and data analyses, wrote the manuscript under support of J. C. Sandoz and M. Giurfa and discussed it with H. Lachnit.
- III. I performed all experimental studies and data analyses, Production of ablated bees has been partially done by D. Malun, the manuscript was written by B. Komischke, M. Giurfa and J. C. Sandoz.

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

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