

## Genetics of Morphogenesis in Basidiomycetes

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In this chapter, our aim is to discuss the current knowledge of the genetics of morphogenesis in basidiomycetes. We begin by outlining some features that are shared among fungi in general and those that are unique to basidiomycetes. With this background of basic fungal morphology and physiology, we focus our discussion on the genetics of morphogenesis and the fascinating biology of three broad groups of basidiomycetes: the smuts, the rusts and the mushrooms. Where the smuts and rusts are considered, there is ample discussion on pathogenesis, as these two broad groupings of fungi are particularly destructive to plants worldwide. Of course, mushrooms represent a valuable commodity in their own right. Each of these broad sections encapsulates a current assessment of the environmental cues and the genes regulating morphological change during development. Each of these three taxon-focused sections also concludes with a section discussing current trends and/or future directions.

### 1. INTRODUCTION

The kingdom fungi lies on the opisthokont lineage of the Eukaryotes and thus is a closer relative to the animals than to the plants. The fossil record of the fungi is estimated to date back as far as 900 million years with all major classes represented about 300 million years ago (Taylor et al. 1994). The basidiomycetes are one of the two ultimate branches of the true fungi, the other being the ascomycetes. About 30,000 basidiomycete species have been described. Among the basidiomycetes are the well known mushrooms of the Hymenomycetes, the rusts of the Urediniomycetes known through recorded history as devastating pathogens of staple grain crops, and the smuts of the Ustilaginomycetes that cause persistent crop losses. In this chapter, we present an overview of some of the central processes particular to the basidiomycetes. We then

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