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## CHAPTER V-1

# Fungi: Identification

RICHARD A. HUMBER

USDA-ARS Plant Protection Research Unit, US Plant, Soil & Nutrition Laboratory,  
Tower Road, Ithaca, New York 14853-2901, USA

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### 1 INTRODUCTION

Most scientists who find and try to identify entomopathogenic fungi have little mycological background. This chapter presents the basic skills and information needed to allow non-mycologists to identify the major genera and, in some instances, most common species of fungal entomopathogens to the generic or, in many instances, to the specific level with a degree of confidence.

Although many major species of fungal entomopathogens have basic diagnostic characters making them quickly identifiable, it must be remembered that species such as *Beauveria bassiana* (Bals.) Vuill., *Metarhizium anisopliae* (Sorok.) Metsch, and *Verticillium lecanii* (Zimm.) Viégas are widely agreed to be species complexes whose resolutions will depend on correlating molecular, morphological, pathobiological and other characters (Soper *et al.*, 1988; Humber, 1996). The keys in this chapter cannot treat the total variation known for these common genera and species, but the information given is

a detailed guide to the diagnostic characters of many important fungal entomopathogens.

This chapter also discusses the preparation of mounts for microscopic examination. Similar points are covered in other chapters, but good slide mounts and simple issues of microscopy are indispensable skills for facilitating the observation of key taxonomic characters. Many publications discuss the principles of microscopy, but a manual by Smith (1994) is easy to understand and notable for its many micrographs showing the practical effects of the proper and improper use of a light microscope.

The recording of images presents a wholly new set of options and challenges in increasingly computerized laboratories. Until this century, the only visual means to record microscopic observations was with drawings; such artwork, whether rendered freehand or with the aid of a camera lucida, still remains an important means of illustrating many characters. The photographs in this chapter were acquired directly as digital files and then adjusted, composed into plates and labelled with photographic software, and printed with a dye sublimation printer. Such a

# Fungi Identification Ascofrance

**Davise Honig Larone**



**Fungi Identification Ascofrance:**

**Medically important fungi : a guide to identification** Davise Honig Larone, 1987

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