

2514 2000	8. Wegensteiger – BOKII Viegna	Santa Maria
	(Protozoa)	
	Microsporidia	
	Fungi	
	Bacteria	
	Virus	
Pathogen	s in Insects	Linkersity of Natural Resources and Applied Life Sciences, Vienn Department of Forest- and Soil Scie























































































Pathogen species

- Ips typographus Entomopoxvirus
- Malamoeba scolyti
- Gregarina typographi
- Mattesia cf. schwenkei
- Menzbieria chalcographi
- Unikaryon montanum
- Metschnikowia typographi
- Beauveria bassiana

midgut epithelium

in organ

- Malpighian tubules midgut epithelium midgut lumen adipose tissue adipose tissue Chytridiopsis typographi midgut epithelium • Nosema typographi adipose tissue, gonads midgut epithelium, gonads midgut epithelium
 - whole insect































































































































