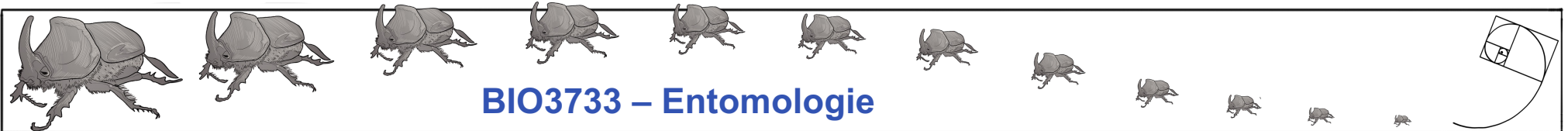
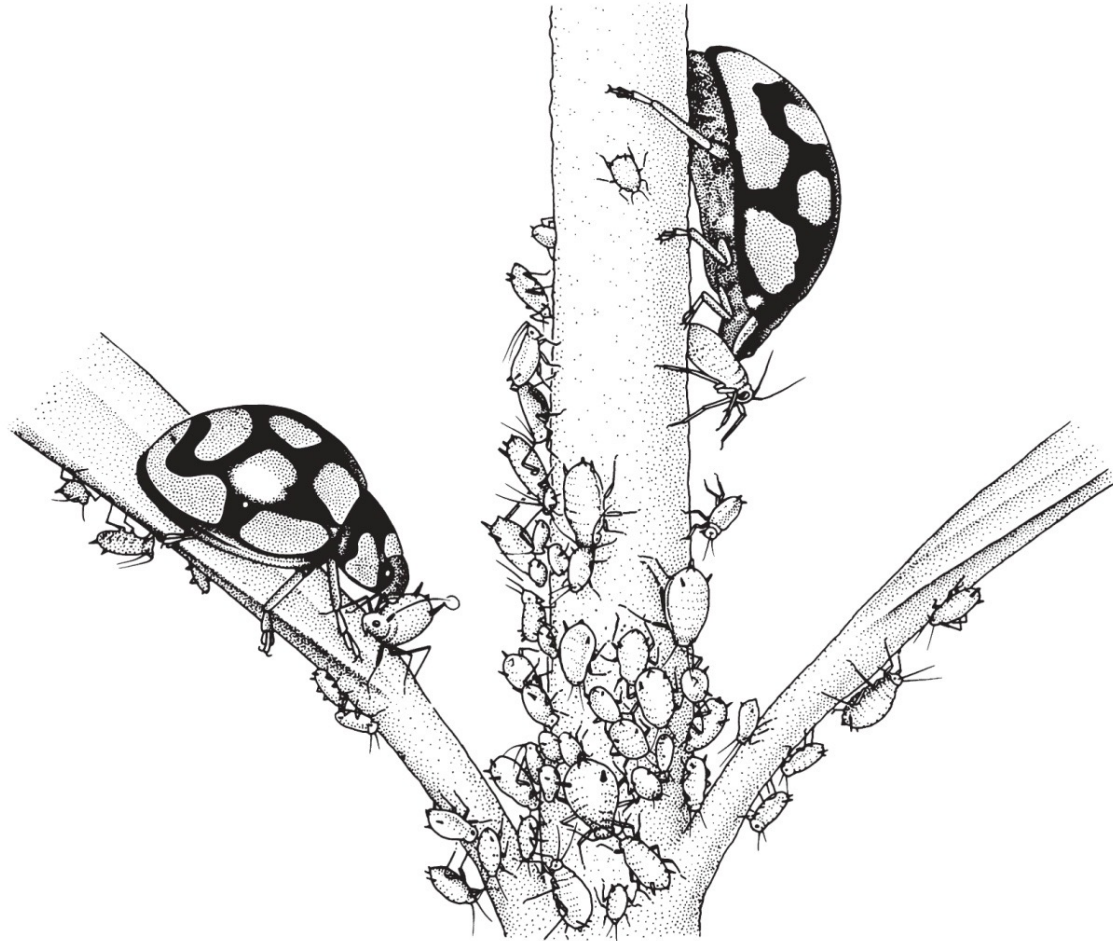


La Lutte Intégrée



Pestes non-économiques

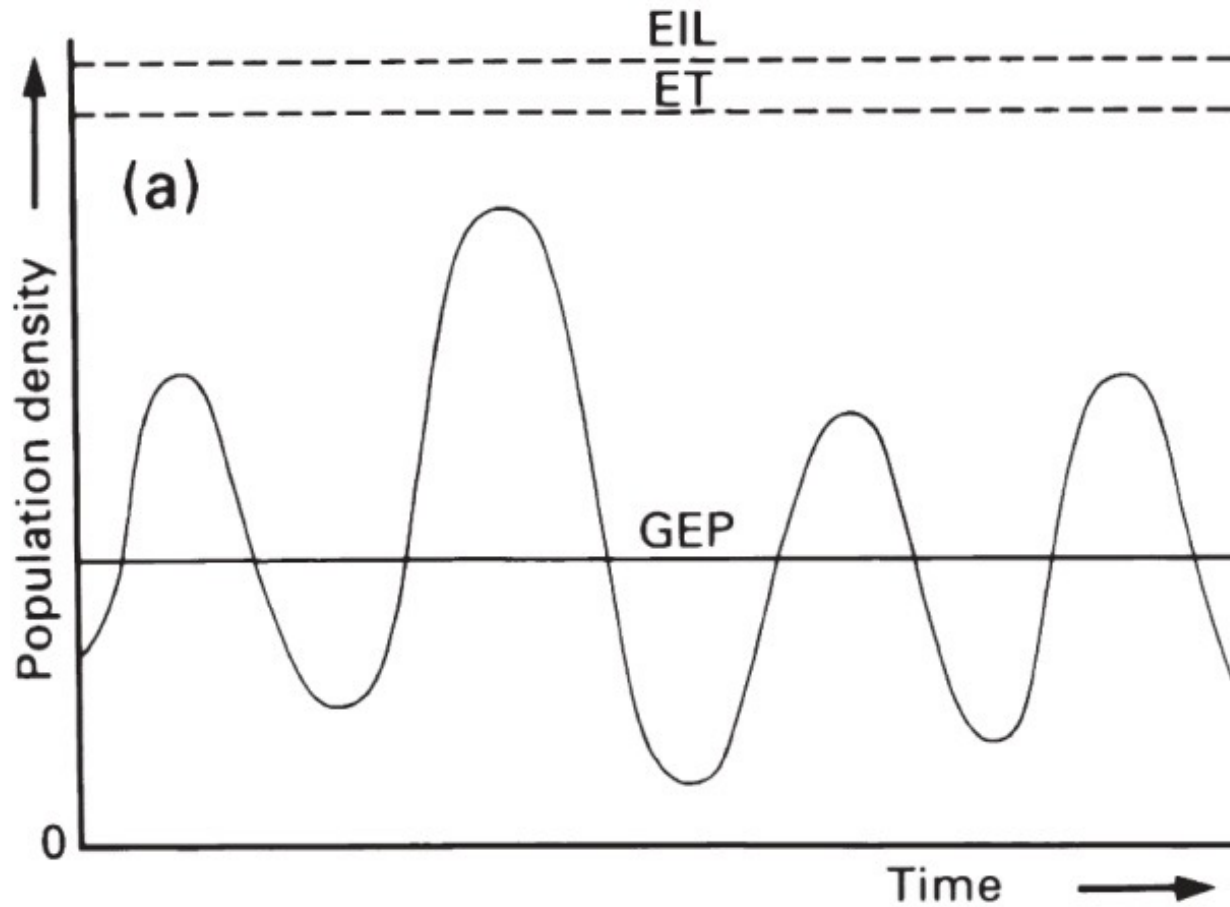
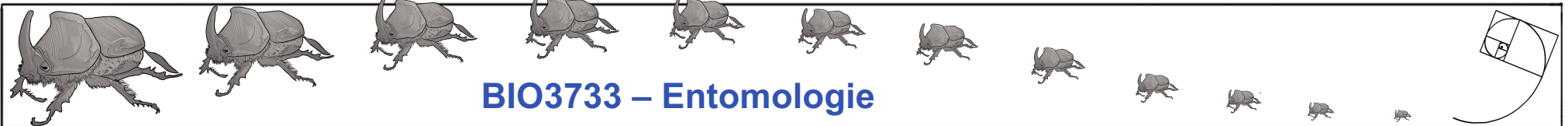


Fig. 16.1



Pestes Occasionels

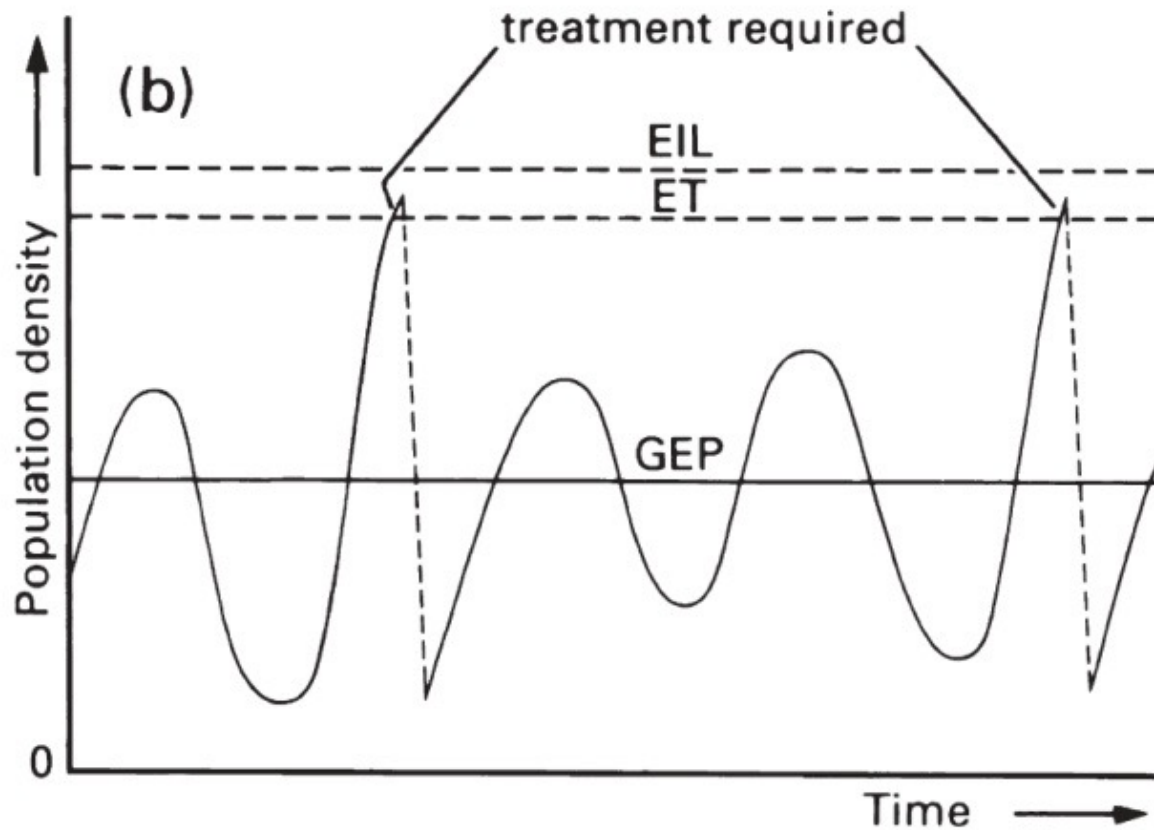
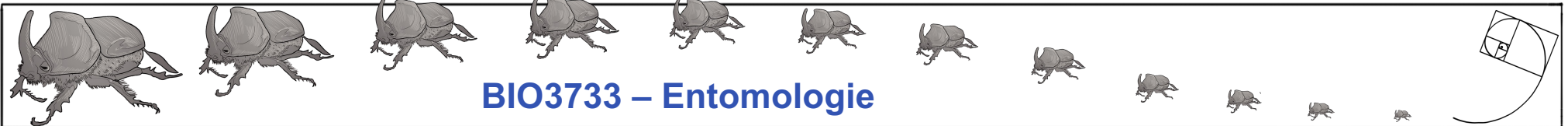


Fig. 16.1



Pestes Pérennes

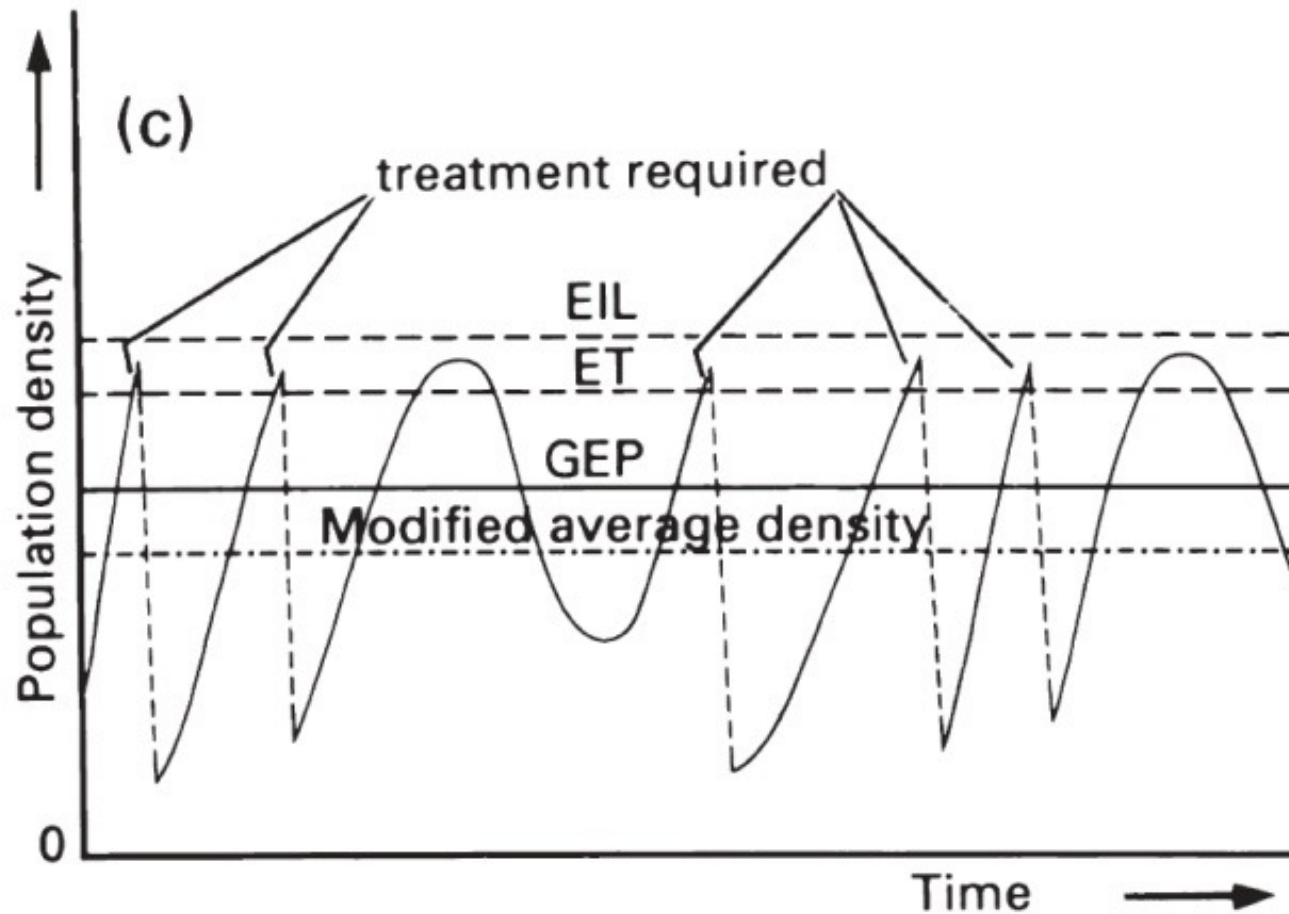
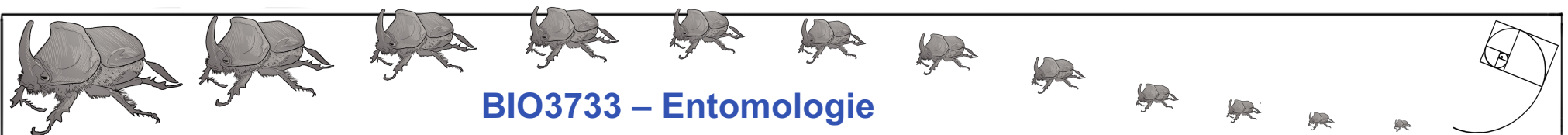


Fig. 16.1



Pestes Sévères

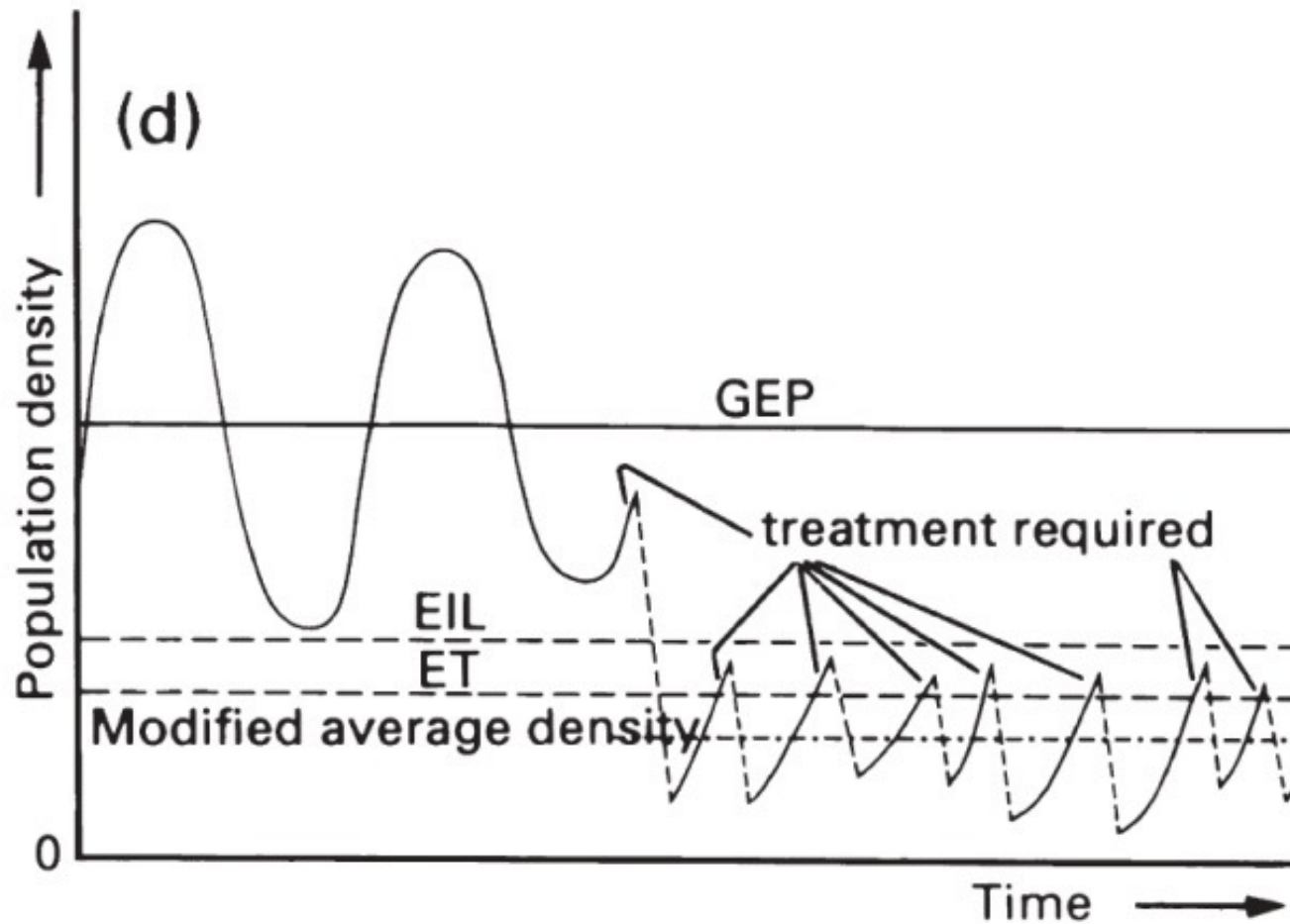
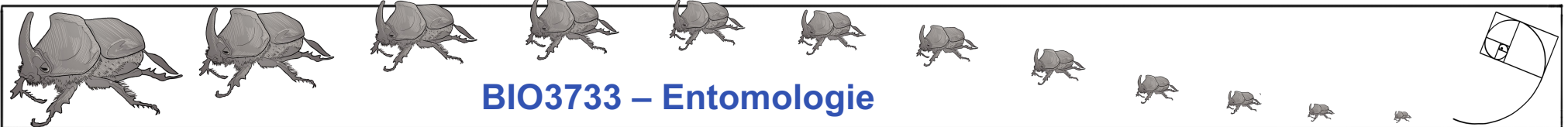
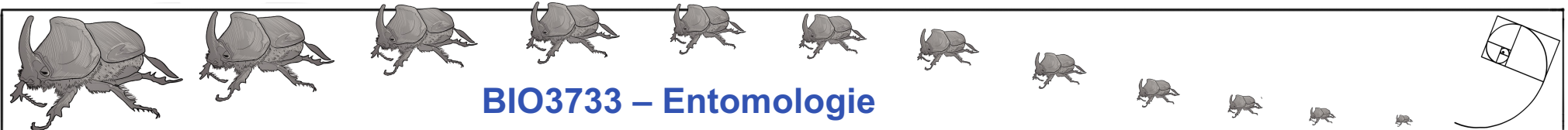
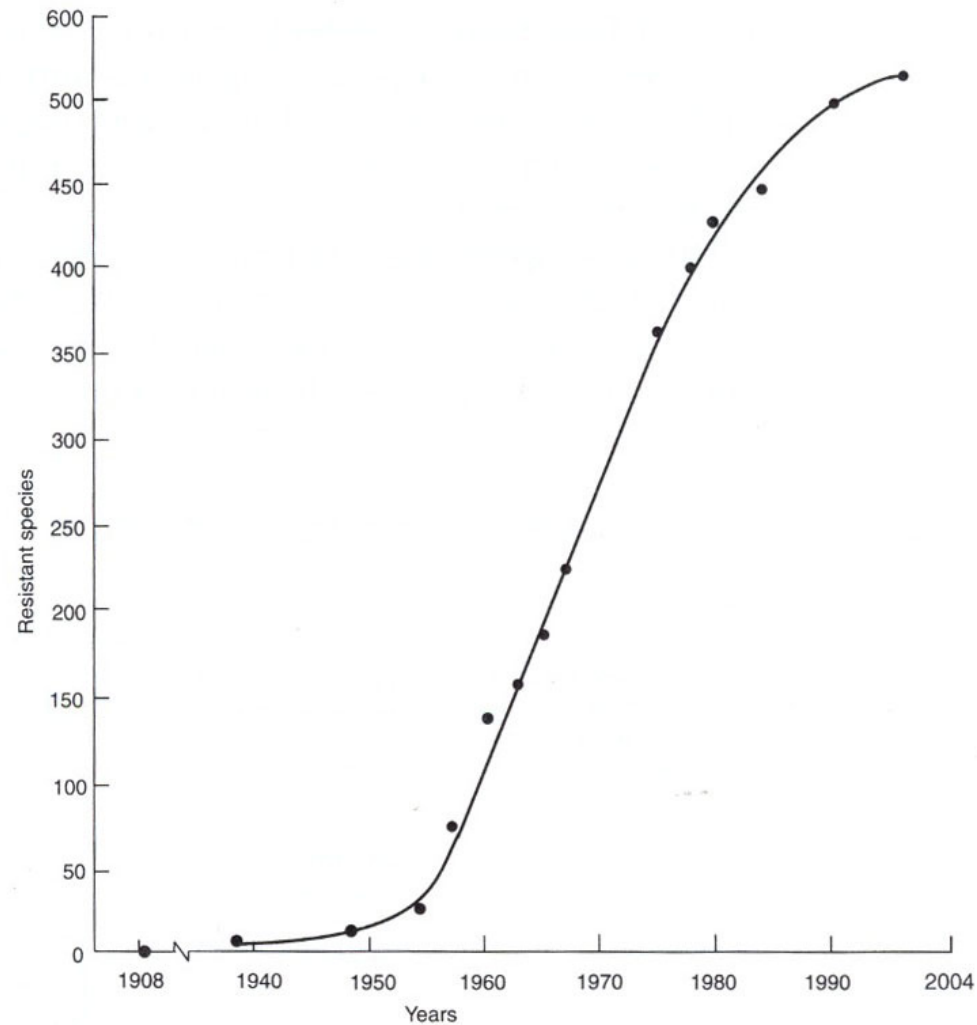


Fig. 16.1

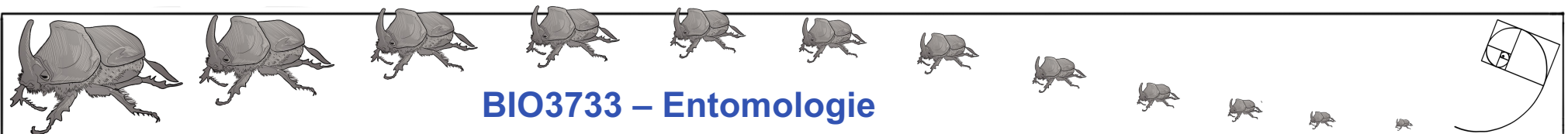
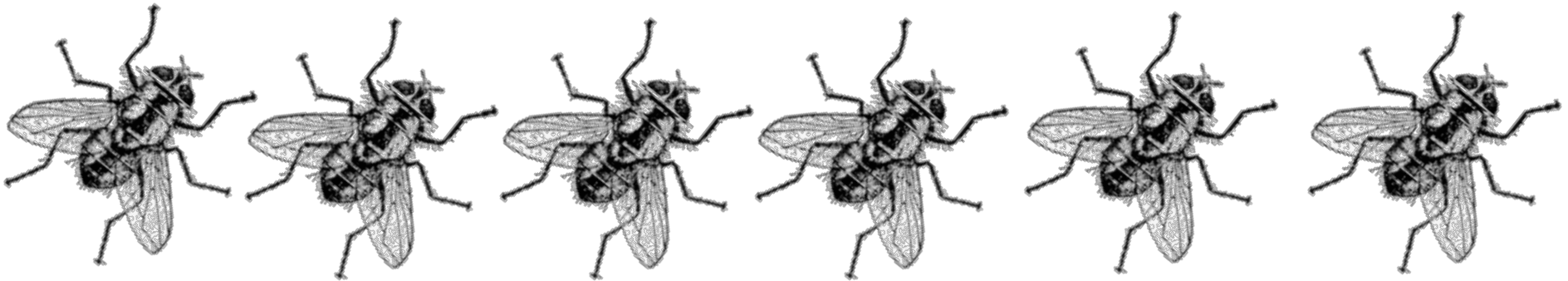
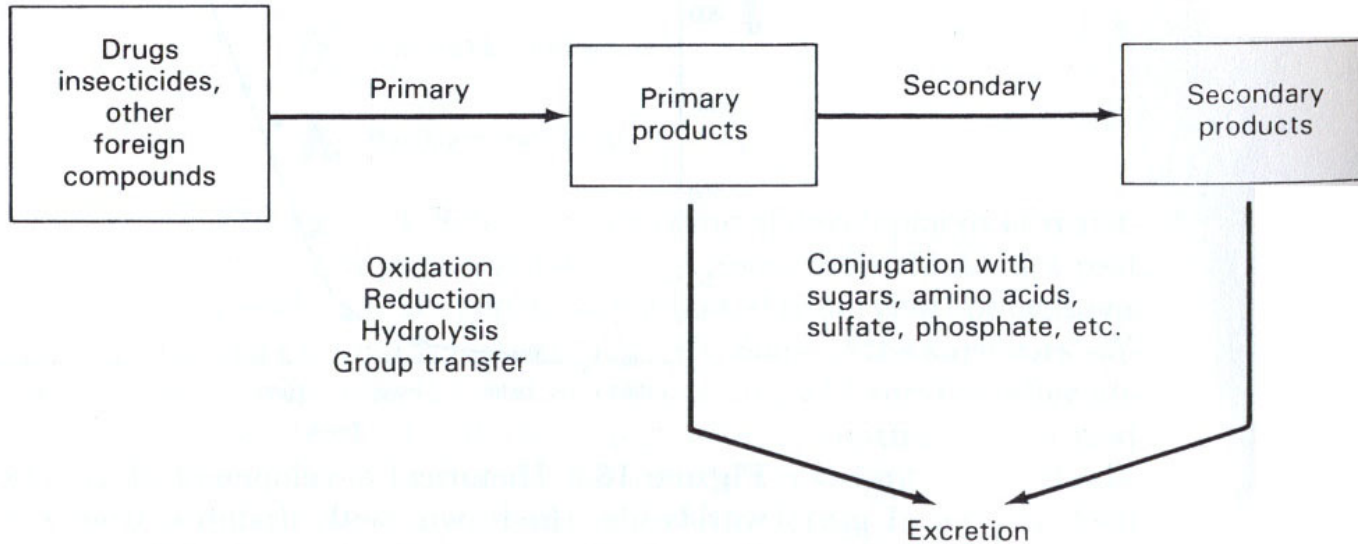


Développement de la résistance

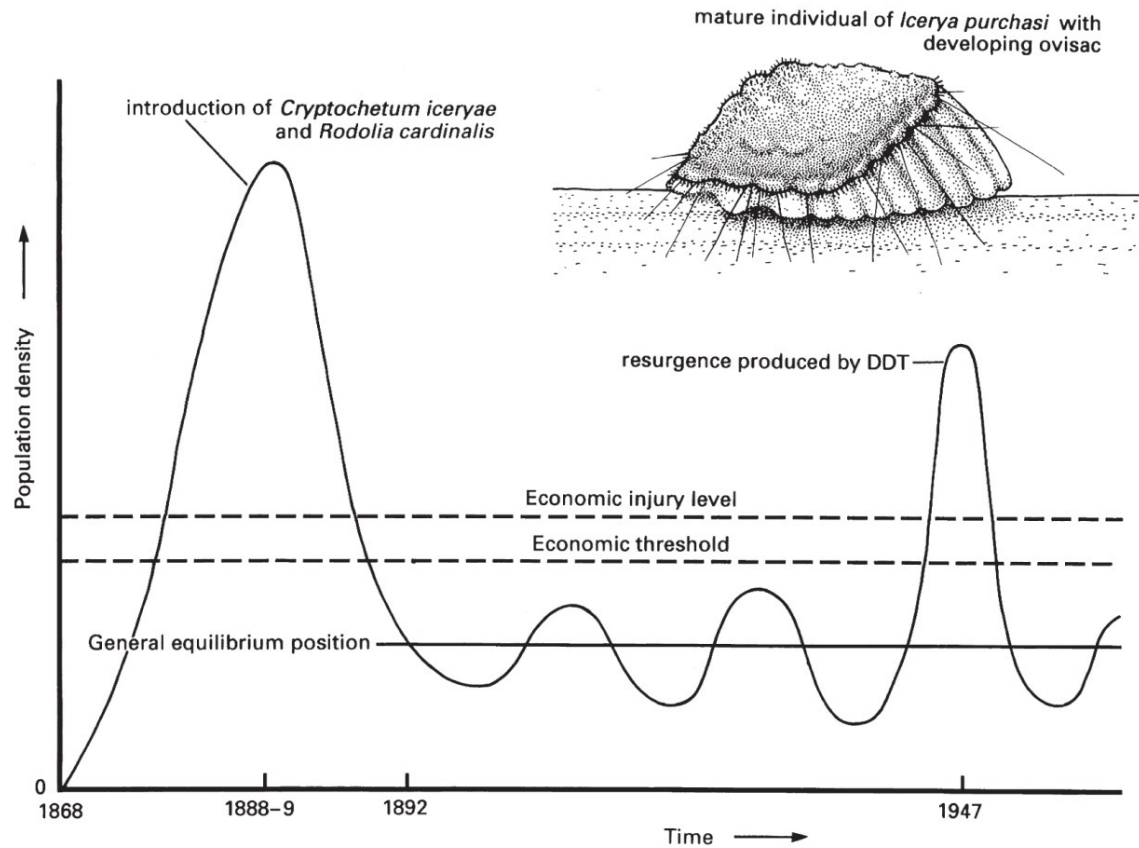


Mécanismes de Résistance

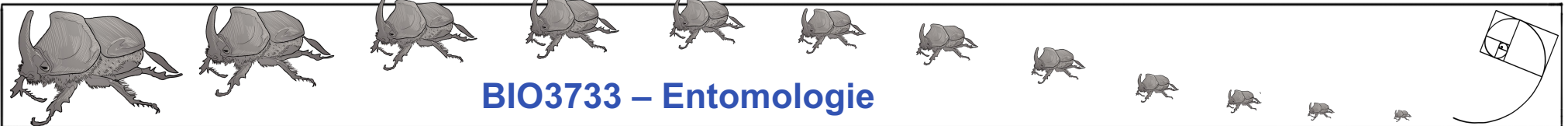
Lipophilic -----> Hydrophilic



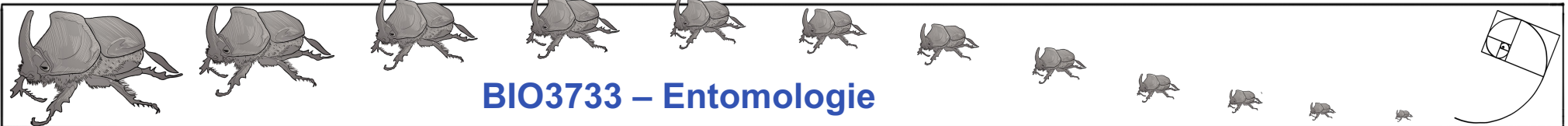
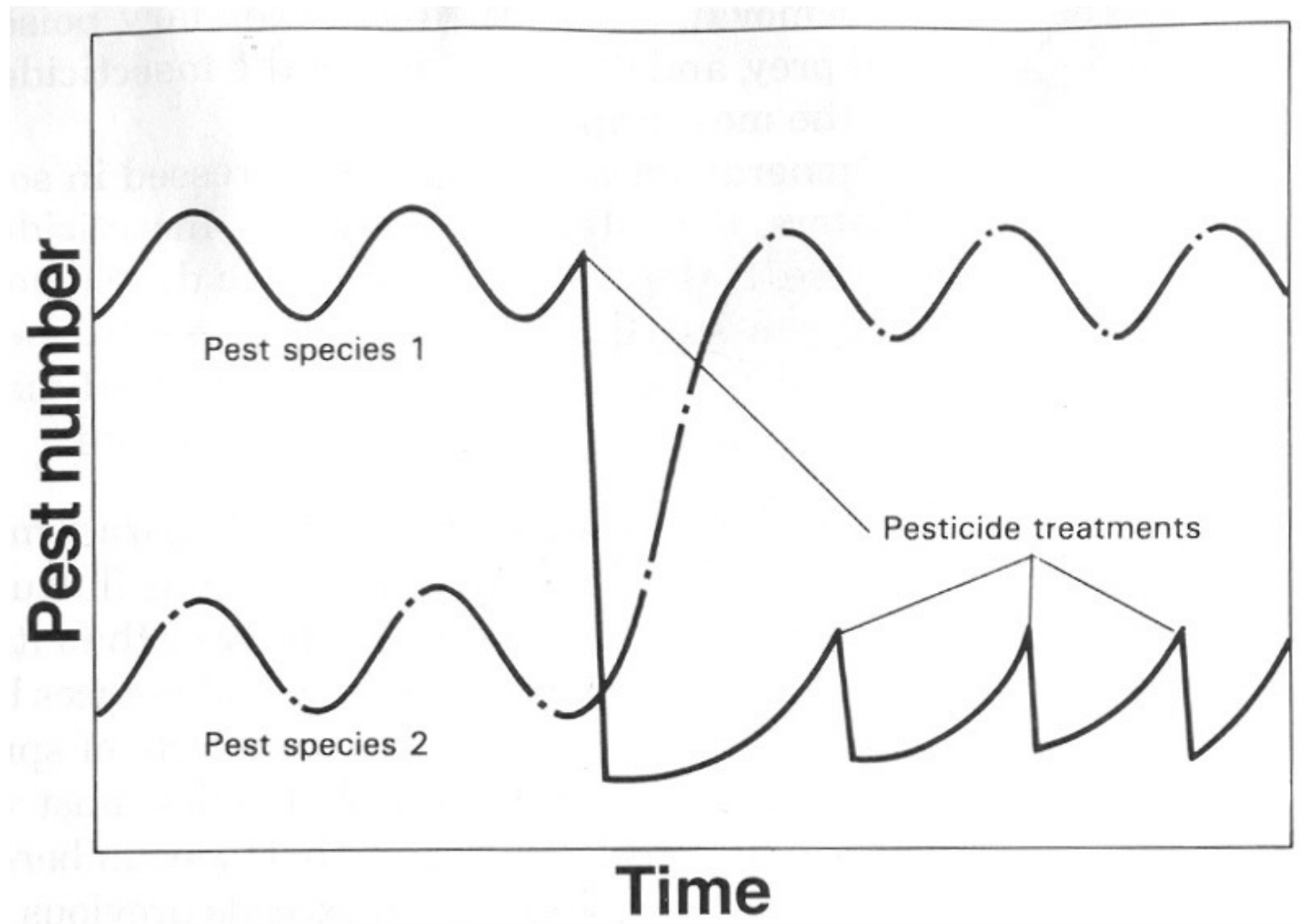
Résurgence



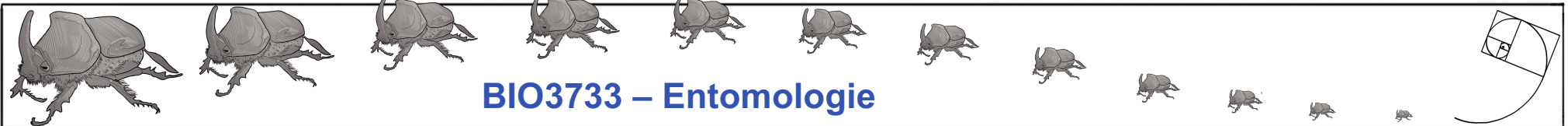
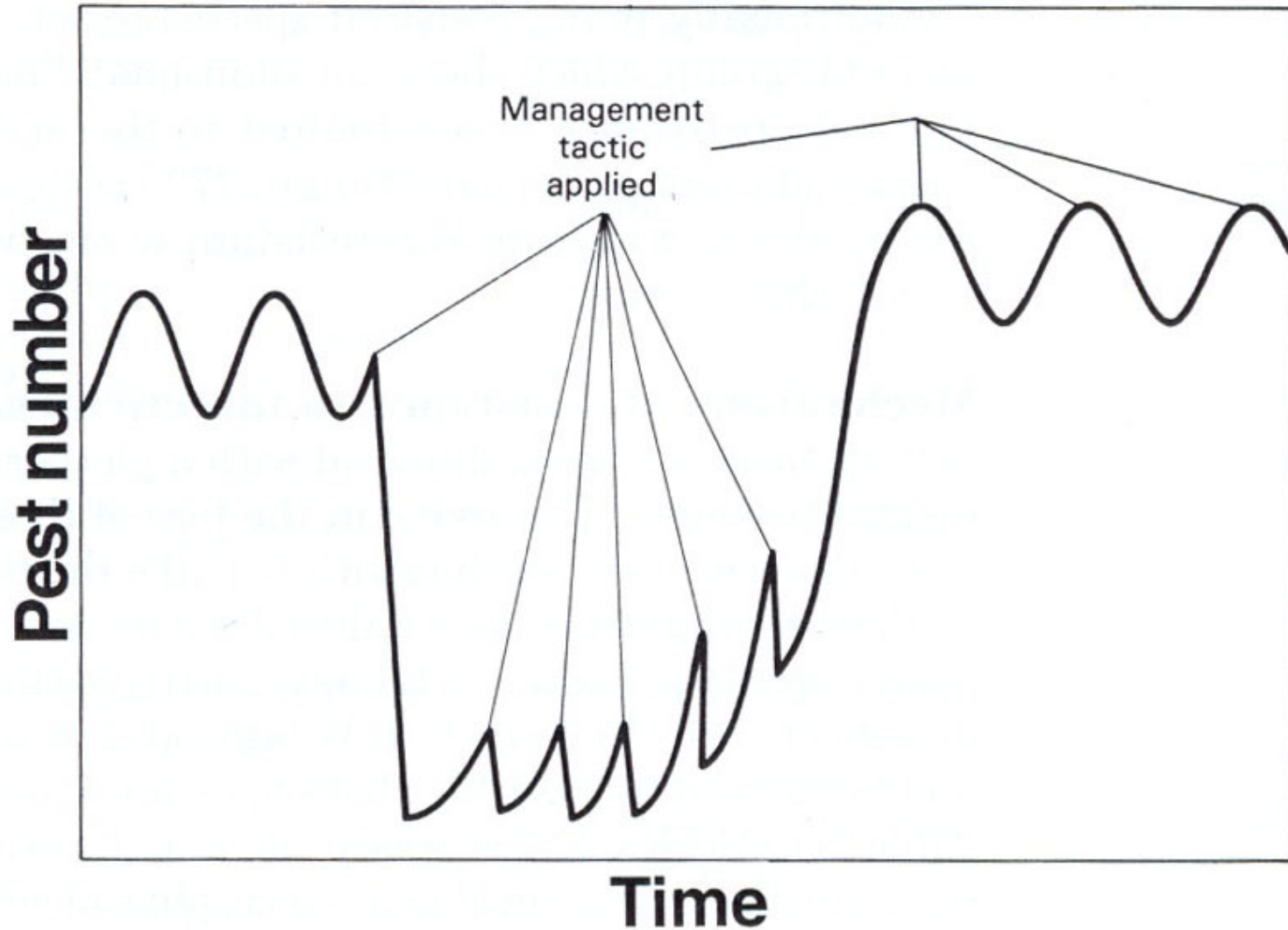
Box 16.3



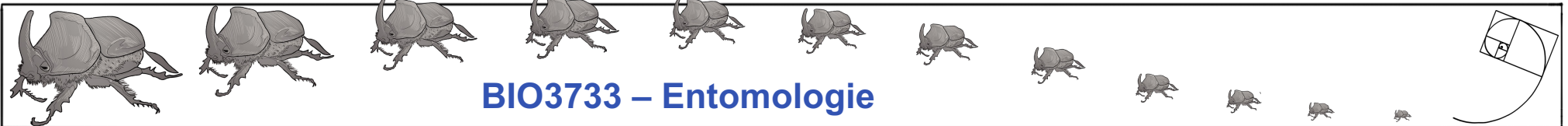
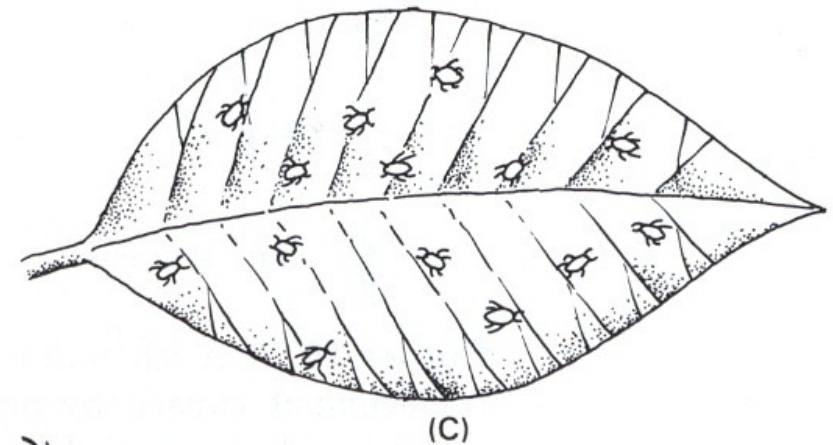
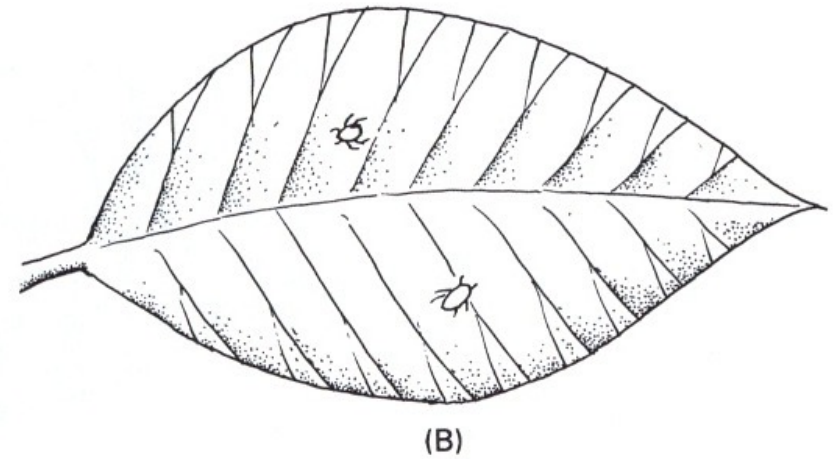
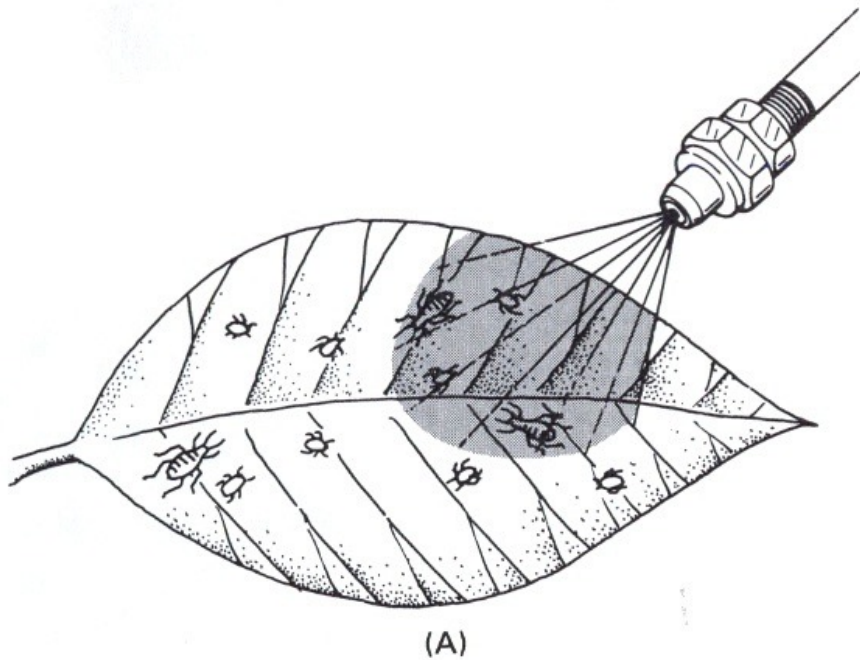
Remplacement



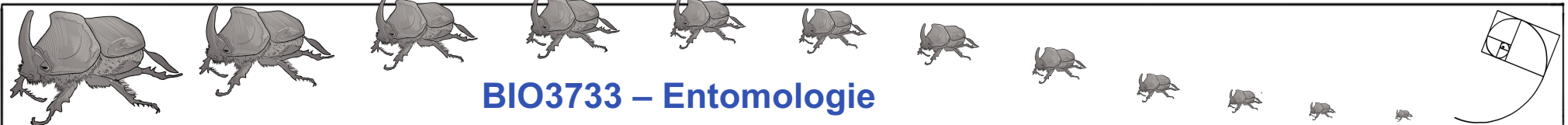
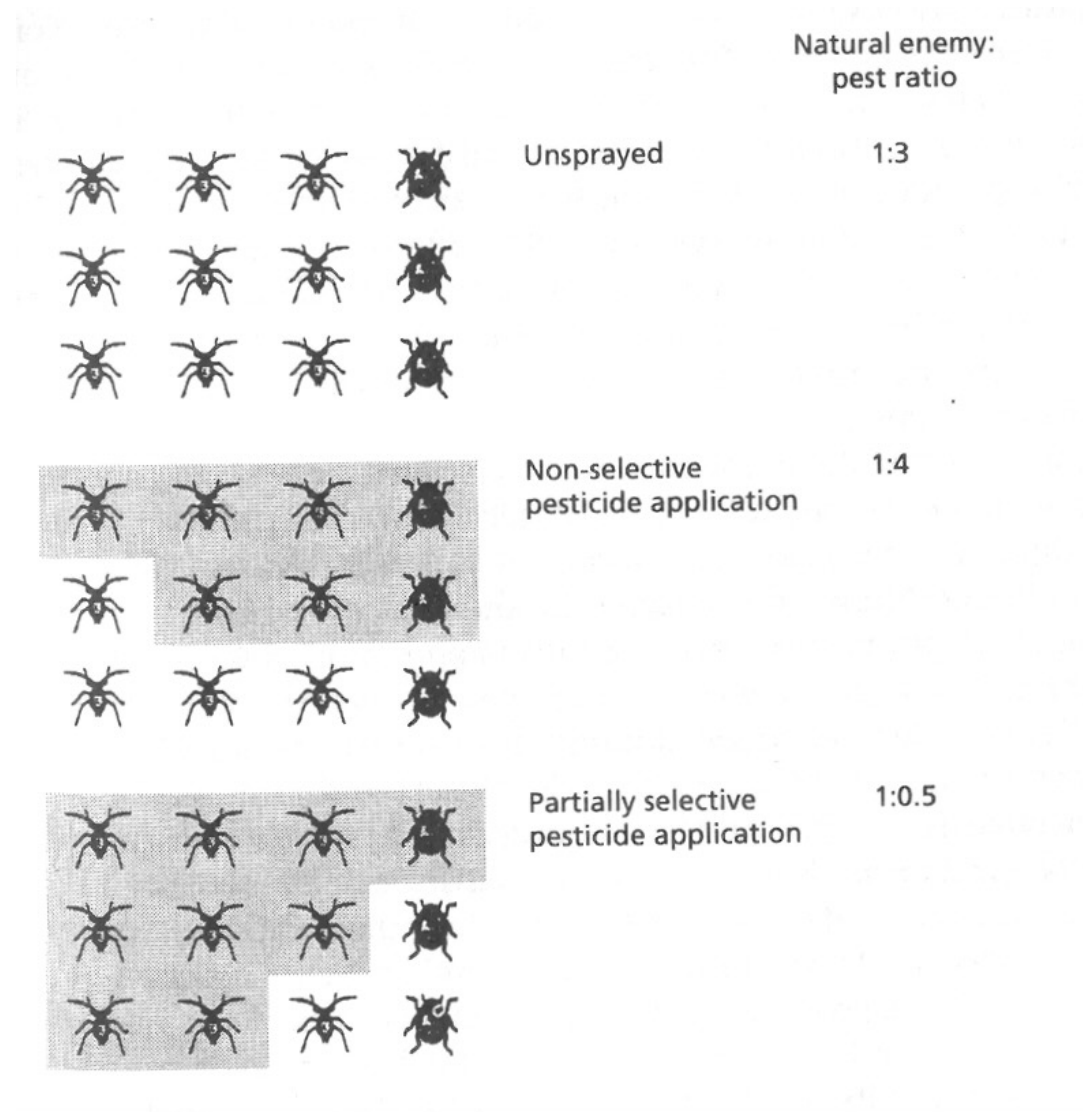
Tapis roulant des pesticides



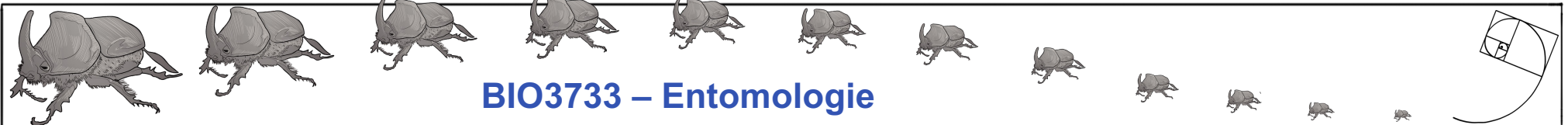
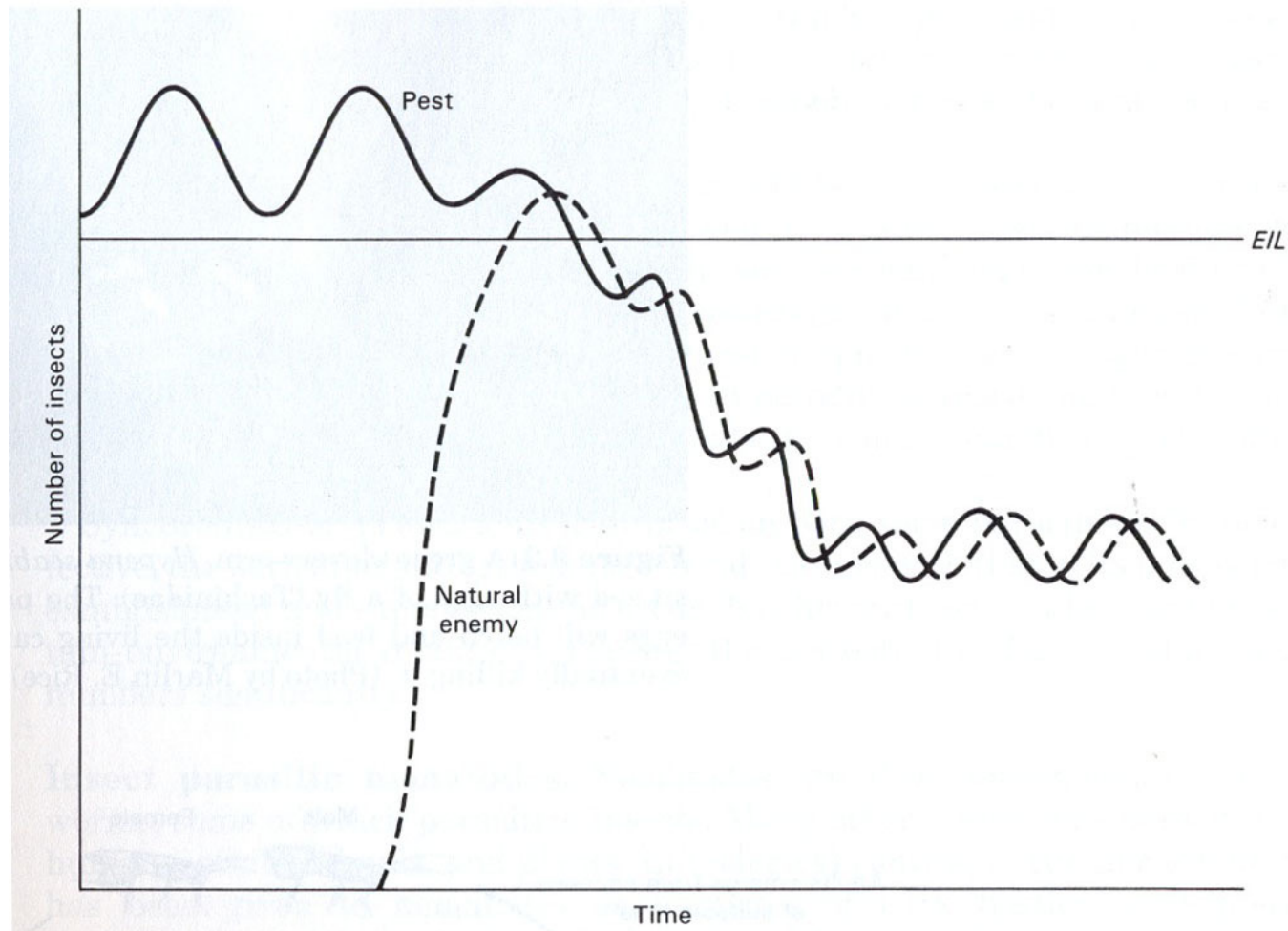
Pertes d'ennemies naturels



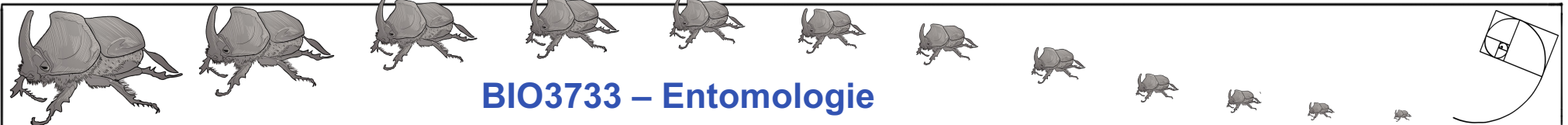
Épandage sélectif



Lutte biologique

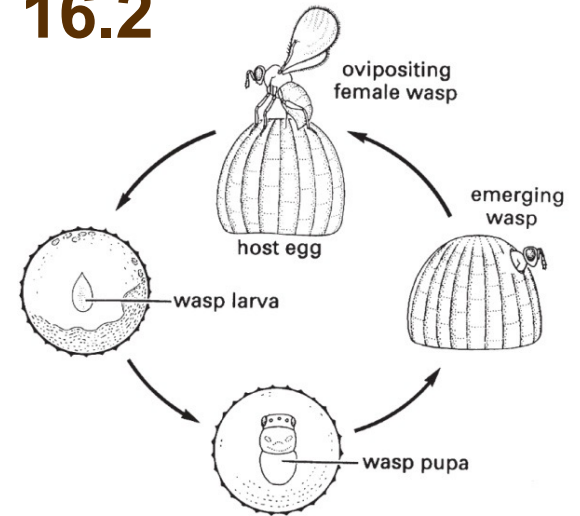


Lutte biologique



Lutte biologique

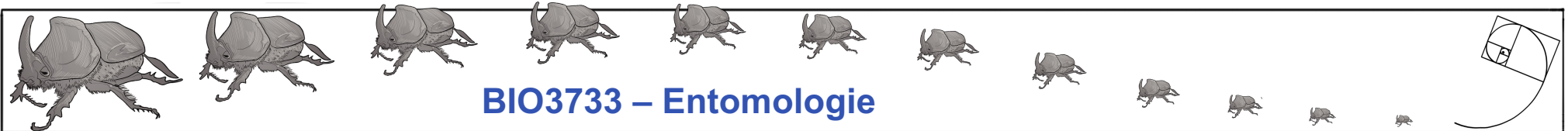
Fig. 16.2



Exoparasitoïde

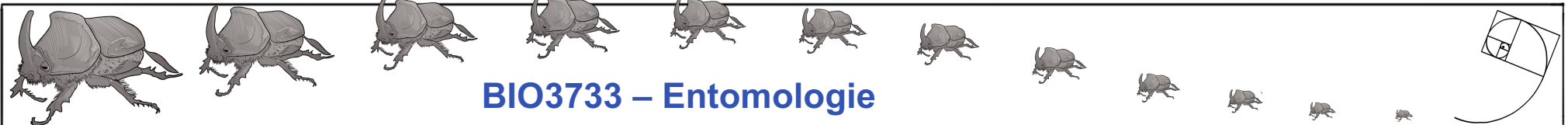


Endoparasitoïde



Bacillus thuringiensis

- *B.t. kurstaki* et *aizawai* (Lepidoptera)
- *B.t. israelensis* (Diptera)
- *B.t. tenebrionis* (Coleoptera)



Les Récoltes avec Bt

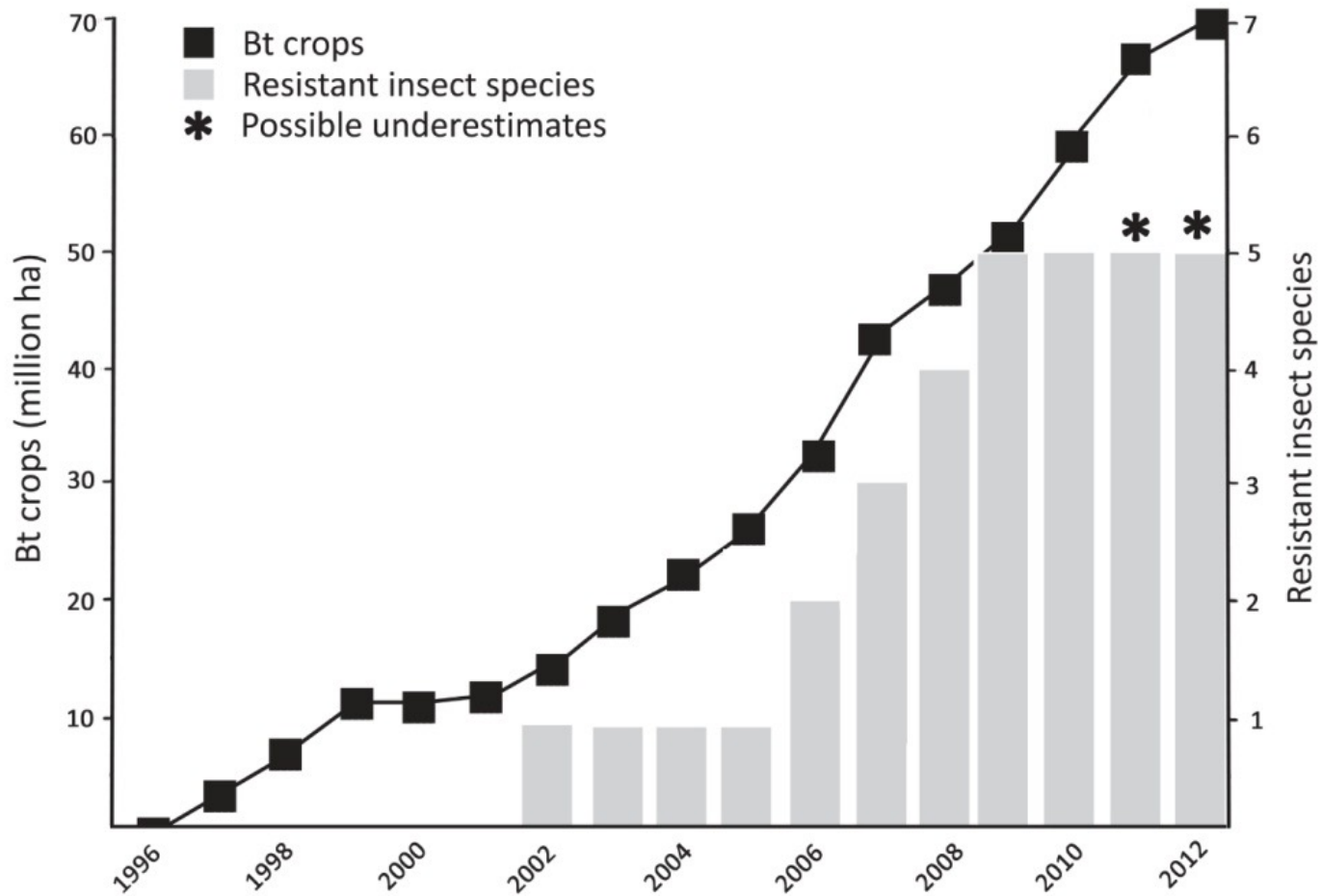
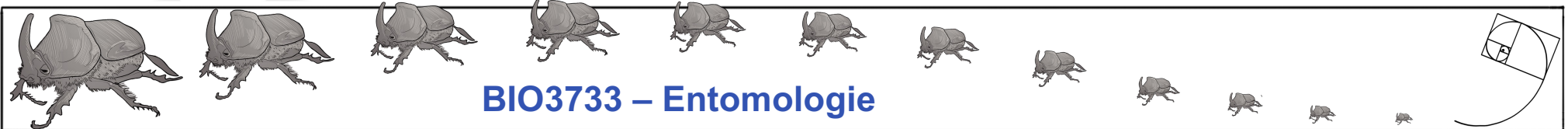


Fig. 16.4



L'utilisation des Microbes

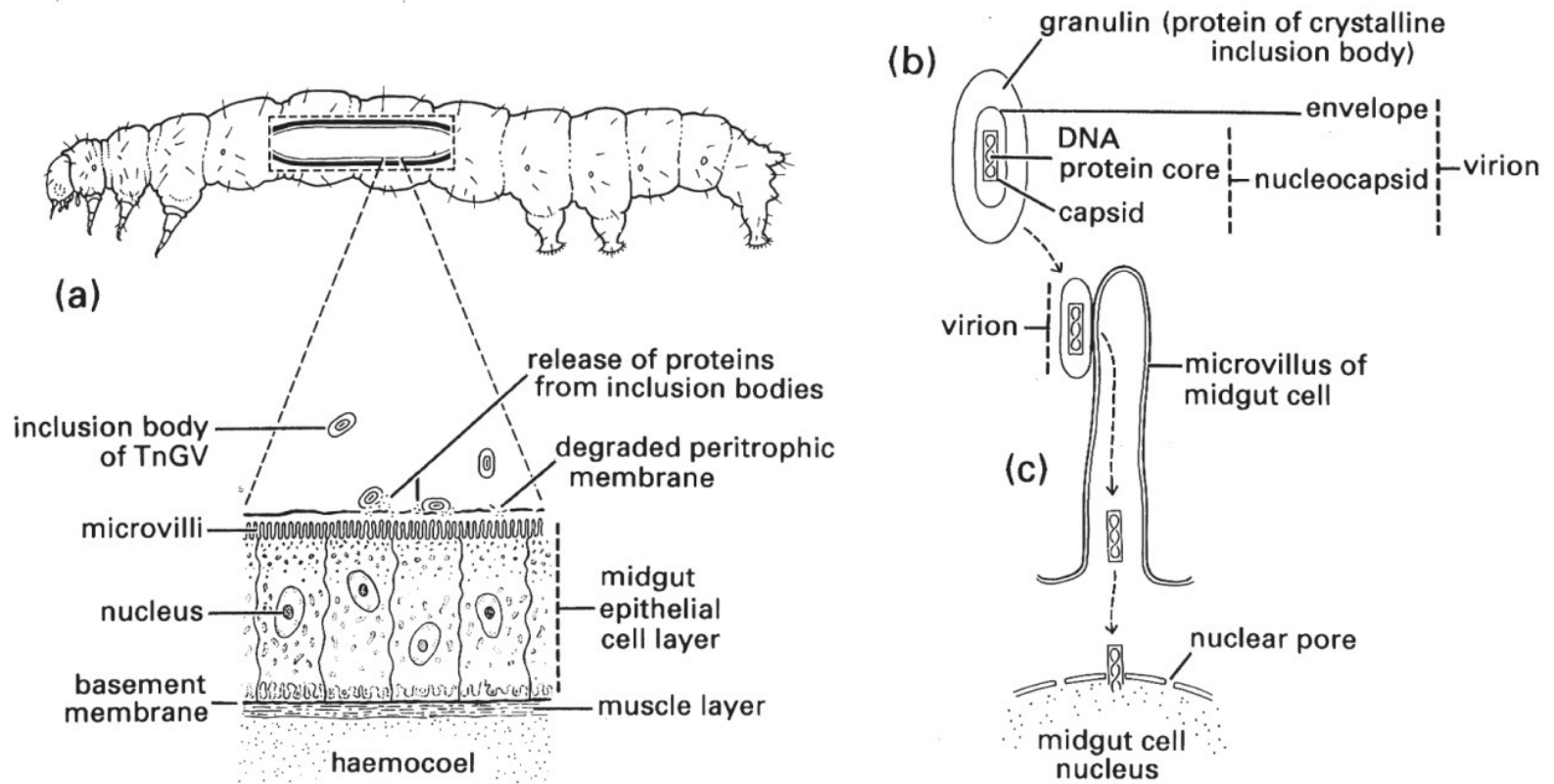
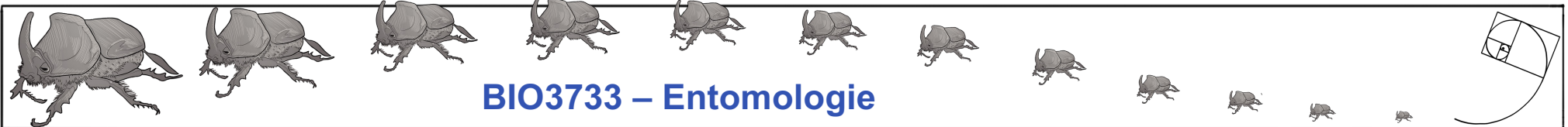
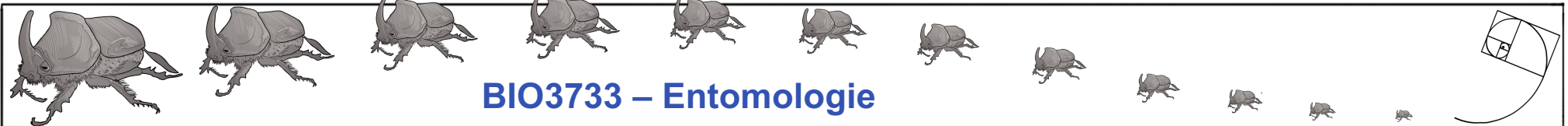


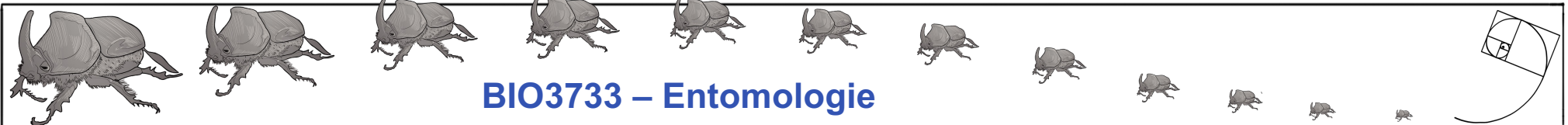
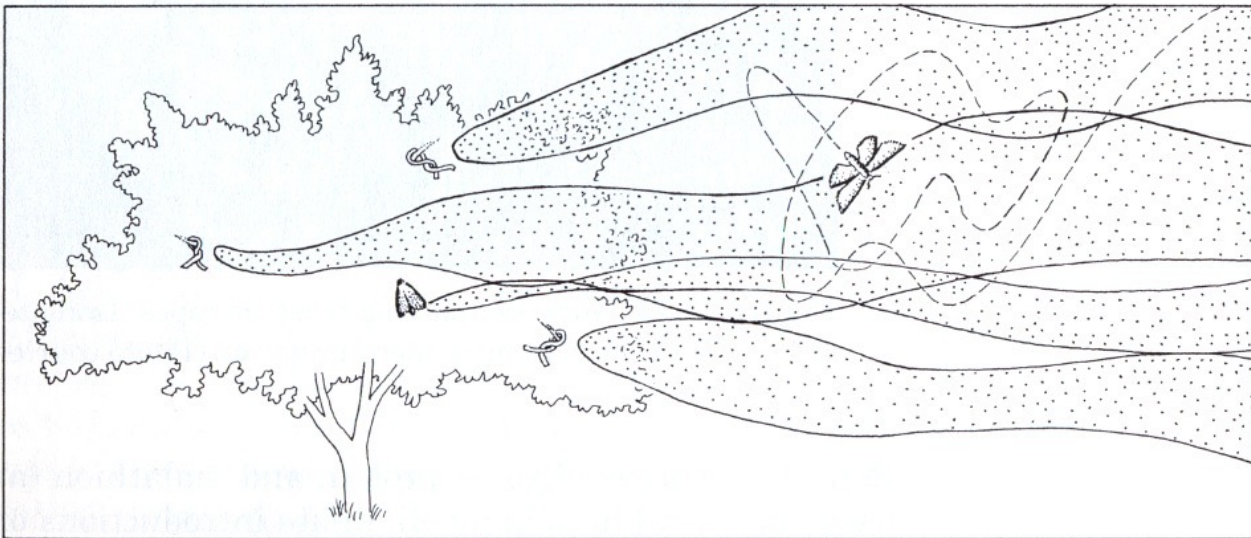
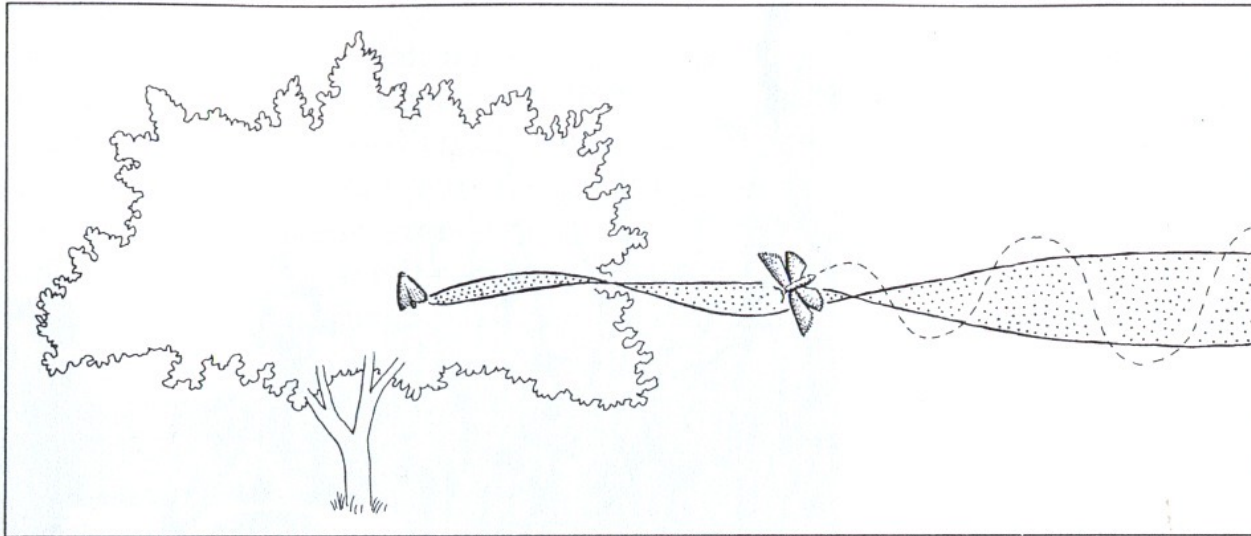
Fig. 16.3



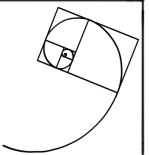
Pièges à Pheromones



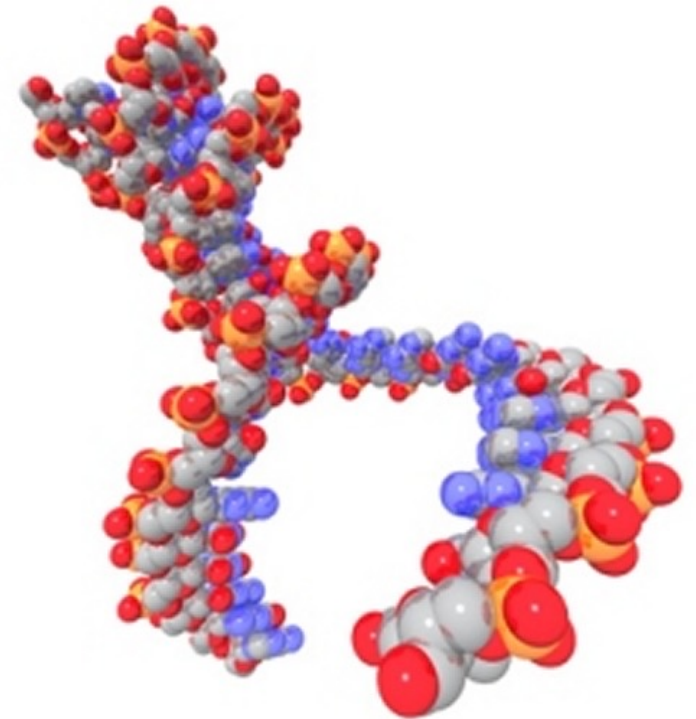
Perturbation des accouplements



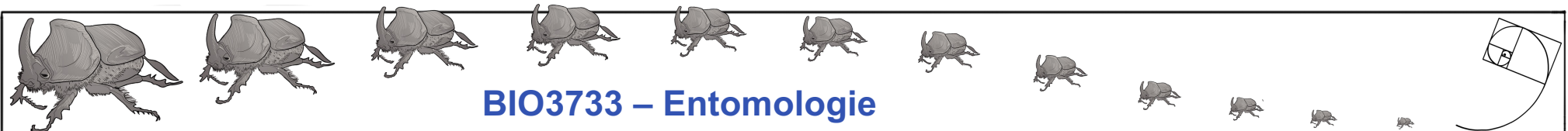
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Manipulation génétique

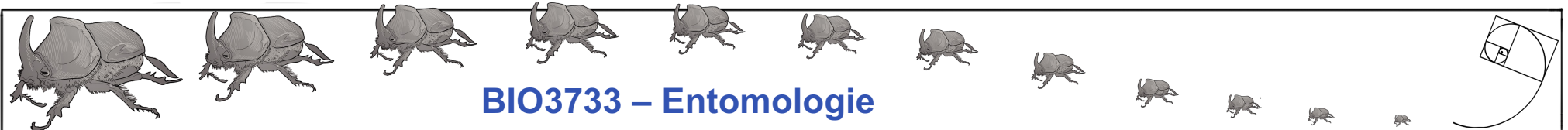


Génération	# femelles sans relâche	# mâles stériles relâchés	# femelles avec relâche	Rapport mâles stériles : normaux	# femelles fertiles
1	1 000 000	9 000 000	1 000 000	9:1	100 000
2	5 000 000	9 000 000	500 000	18:1	29 316
3	25 000 000	9 000 000	131 579	68:1	1 907
4	125 000 000	9 000 000	9 535	944:1	10
5	625 000 000	9 000 000	50	180 000:1	0

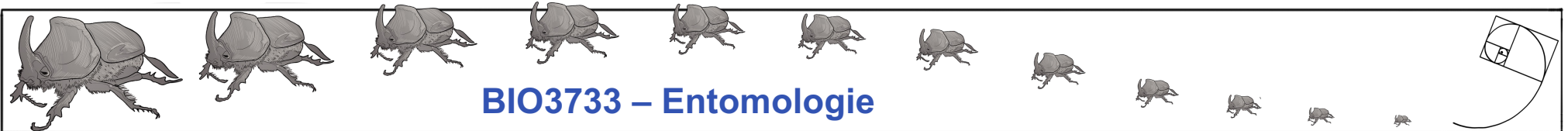
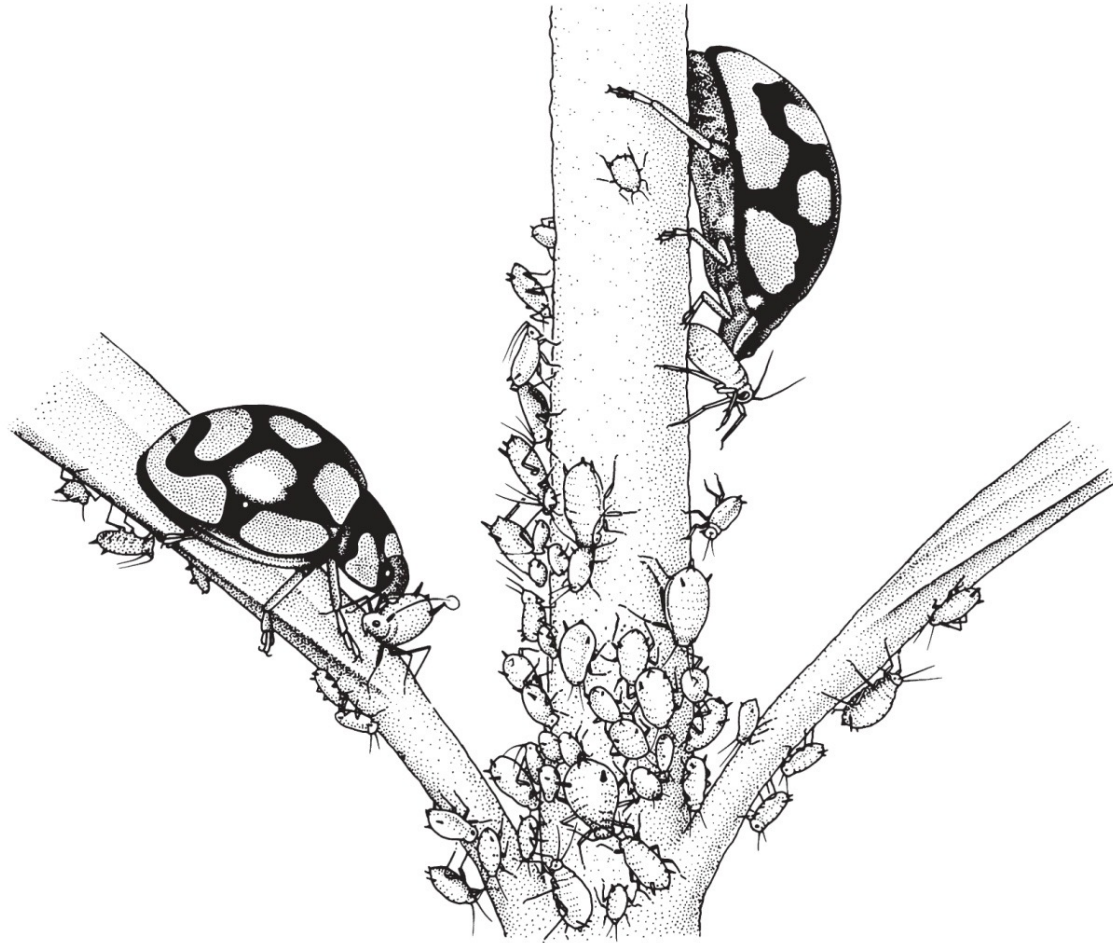


Gestion de l'habitat pour la biodiversité

- Habitat (hivernement, refuges, accouplements)
- Ressources alimentaires alternatives



FIN



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