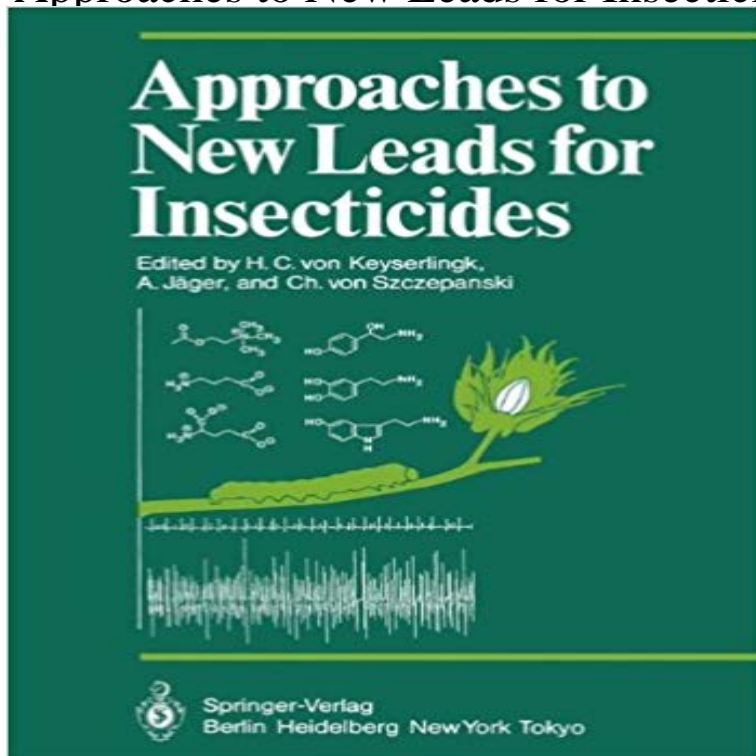


## Approaches to New Leads for Insecticides (Proceedings in Life Sciences)



Man as a biological species and as a member of the community of organisms that has evolved over the billions of years on this planet has to face competition for his resources in the same way as any other species. In the course of evolution organisms have developed a fascinating variety of weapons, techniques and strategies in this competitive scramble for food and other essential resources and in self-defense against parasitism and predation. Among these, the biosynthesis of toxic molecules and their appropriate delivery in interspecific encounters has proved to be one of the most successful natural weapons and has been demonstrated in every branch of the evolutionary tree of all extant species. It is interesting to note that in this process of generating toxic molecules both natural selection by evolutionary processes and screening techniques by chemical industry have produced compounds with very similar target sites. The most potent of these compounds interfere with the normal signalling of nerve cells. Saxitoxin, tetrodotoxin, batrachotoxin, grayanotoxin, veratridine, aconitin, sea anemone venom and scorpion toxin are natural poisons which interfere with the same membrane bound protein as many potent synthetic insecticides such as DDT and the pyrethroids: the voltage-gated  $\text{Na}^+$  channel in the nerve cell membrane. In several cases natural toxins have directly provided lead structures for successful chemical synthesis programmes in the insecticide industry. Eserine, nereistoxin and pyrethrum are outstanding examples.

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Seja Bem Vindo

E conheceréis a verdade, e a verdade vos libertará. João 8:32

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A Bíblia em 1 minuto - 1 Pedro 5:7-8

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1

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3

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5

Próximo »

## MENSAGENS

Não Desista Nunca!

Não Desista Nunca!

Existem pedras. Não desista de andar! Existem barreiras. Não desista de passar! Existem os nós. É preciso desatar! ...

[leia mais]

Vale sempre a pena

Vale sempre a pena

Nem tudo o que você fizer bem será elogiado. Haverá momentos em que tentará com muito esforço demonstrar um bom coração ... [leia mais]

O Deus do impossível

O Deus do impossível

Um jovem que trabalhava no exército era humilhado por ser cristão. Um dia seu superior querendo humilhá-lo na frente d... [leia mais]

Deus sabe o que faz

Deus sabe o que faz

Conta-se que um homem chamado Okiba teve que abandonar sua terra por motivos particulares, e, assim, peregrinou em reg... [leia mais]

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