

# Cockroaches: The Ever Changing Face of Cockroach Control

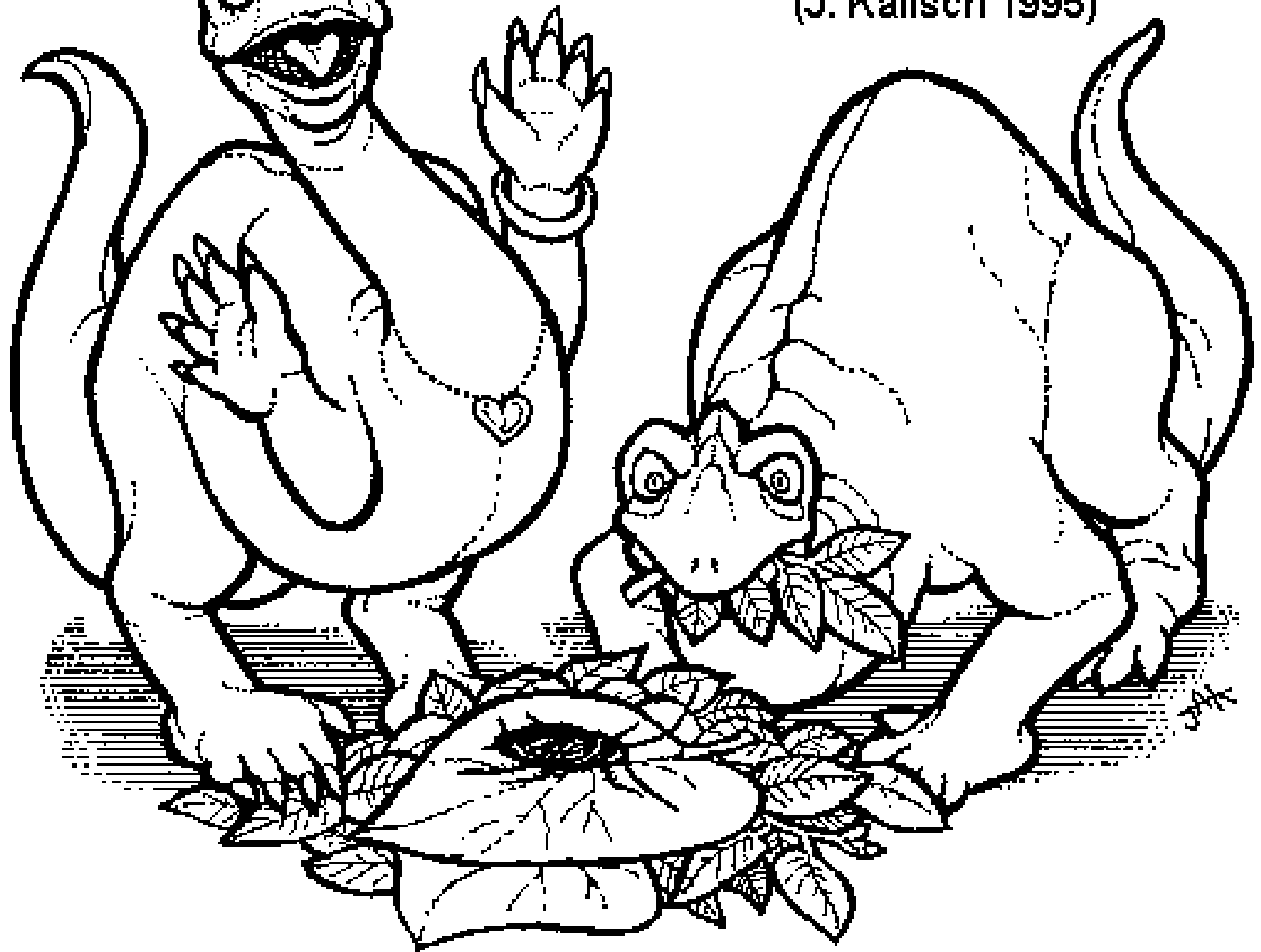
By Chris Arne Ph.D.

J.C. Ehrlich & Co.

*A Copesan Partner*



Eeek!...A cockroach in our dinner!  
Smash it, honey, smash it!  
(J. Kalisch 1995)



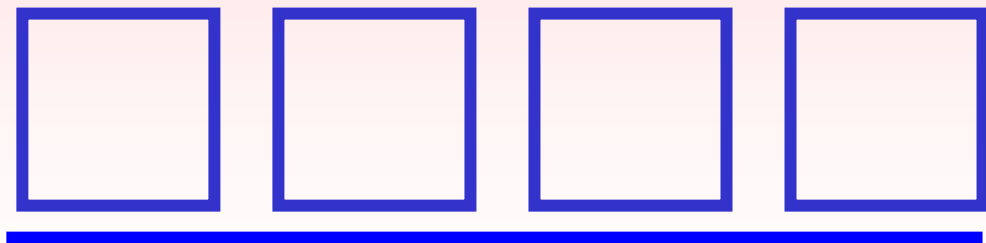
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**Why the Concern?**



**40% of  
asthmatic  
children are  
allergic to  
cockroaches**



**Any ideas?**



- Gastroenteritis
- Salmonella
- Staphylococcus
- Streptococcus







**What was the old  
strategy?**

**Spray and pray**

# Shelter

Water

```
graph TD; Shelter[Shelter] <--> Water((Water)); Water --> Food[Food]; Shelter <--> Food;
```

# Food

A photograph of a dense tropical forest. The scene is filled with various shades of green, from deep forest greens to bright, vibrant greens of the undergrowth. In the foreground, there are large, broad-leafed plants and some yellow flowers. The background shows a steep, forested hillside with many tall, thin trees. The overall atmosphere is one of a thriving, wild ecosystem.

# Tropics

**Where are the  
tropical areas  
in a home or  
restaurant?**



Dishwashers

# Thigmophillic



University of Nebraska  
Department of Entomology









**Direct link  
between  
sanitation  
and level of  
cockroach  
infestation**

**Sanitation**

**Habitat  
Modification**

**Treatment**

**Population**

100%

50%

0%

**Treatment**

