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## Categories of behavioural change -

- change in activity.
  - reduction distance traveled
  - └ ? maybe not adaptive

- conspicuous behavior.

↳ hypoxia  
photophilia.  
heat-seeking  
(behavioural fever)

- changes in social behaviour.  
do parasites change host  
social behaviour?

## MECHANISMS -

- ~~disrupt~~ • specialized ~  
manipulating pathways.
- ORGAN disruption or damage —
  - sensory organs —
  - central nervous system
  - rabies

nutritional or metabolic status

## MANIPULATION

<u>parasite fitness</u>	<u>host fitness</u>	
+ (transmission)	-	✓ parasite manip.
+ (survival)	0/-	site selection
- survivorship	+	behavioral resistance
- transmission	?	[inclusive fitness]
0/-	-	pathology
0/+	+	compensation

## EXPERIMENTS

Gammarus • octopamine/dopamine

### ★ PARASITIC CASTRATION

↳ gigantism. ?

↳ <sup>host</sup> survival -

- outline infection?