

Gamergate controls dopamine levels of workers in *Diacamma* sp.

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Session No. 2 in 15 July
Core time: 18:00-19:30

INTRODUCTION

Eusocial insects represent complex societies integrated to subcomponents.

Queen pheromone is a key factor to regulate worker reproduction.

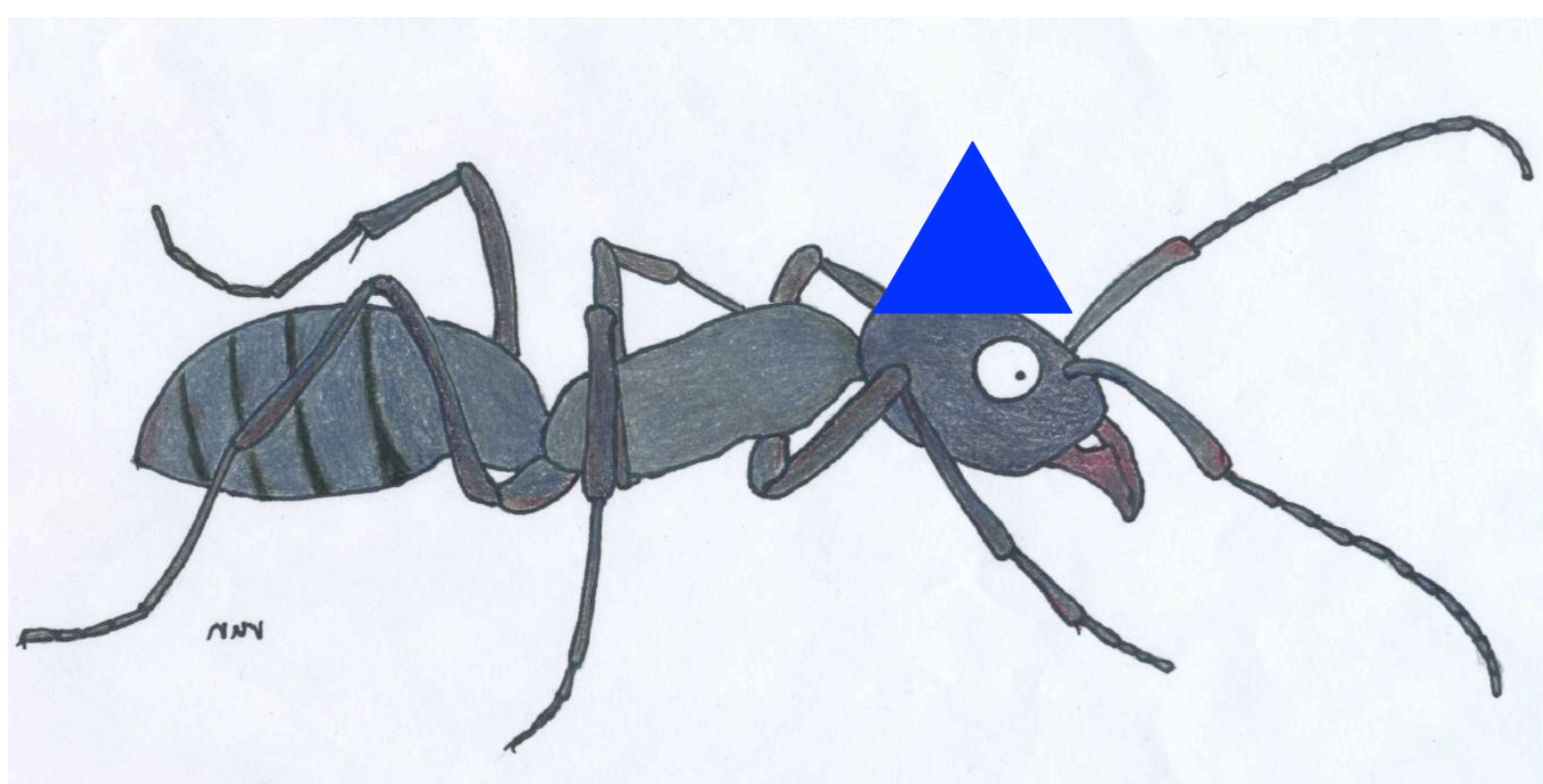
Biogenic amines affect both physiology and behavior of individuals.

In some ant species, dominance hierarchy regulates control worker reproduction.

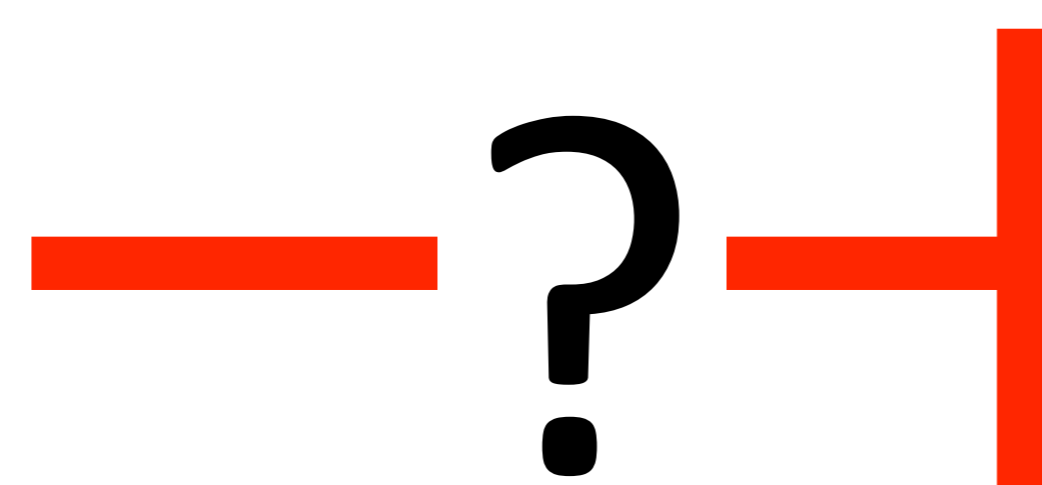
Little is known about how such heterogeneity (social status) arises among individuals.

We examined whether biogenic amine levels of worker brain are regulated through social interactions or not.

Does gamergate control amine levels of worker by contact ?

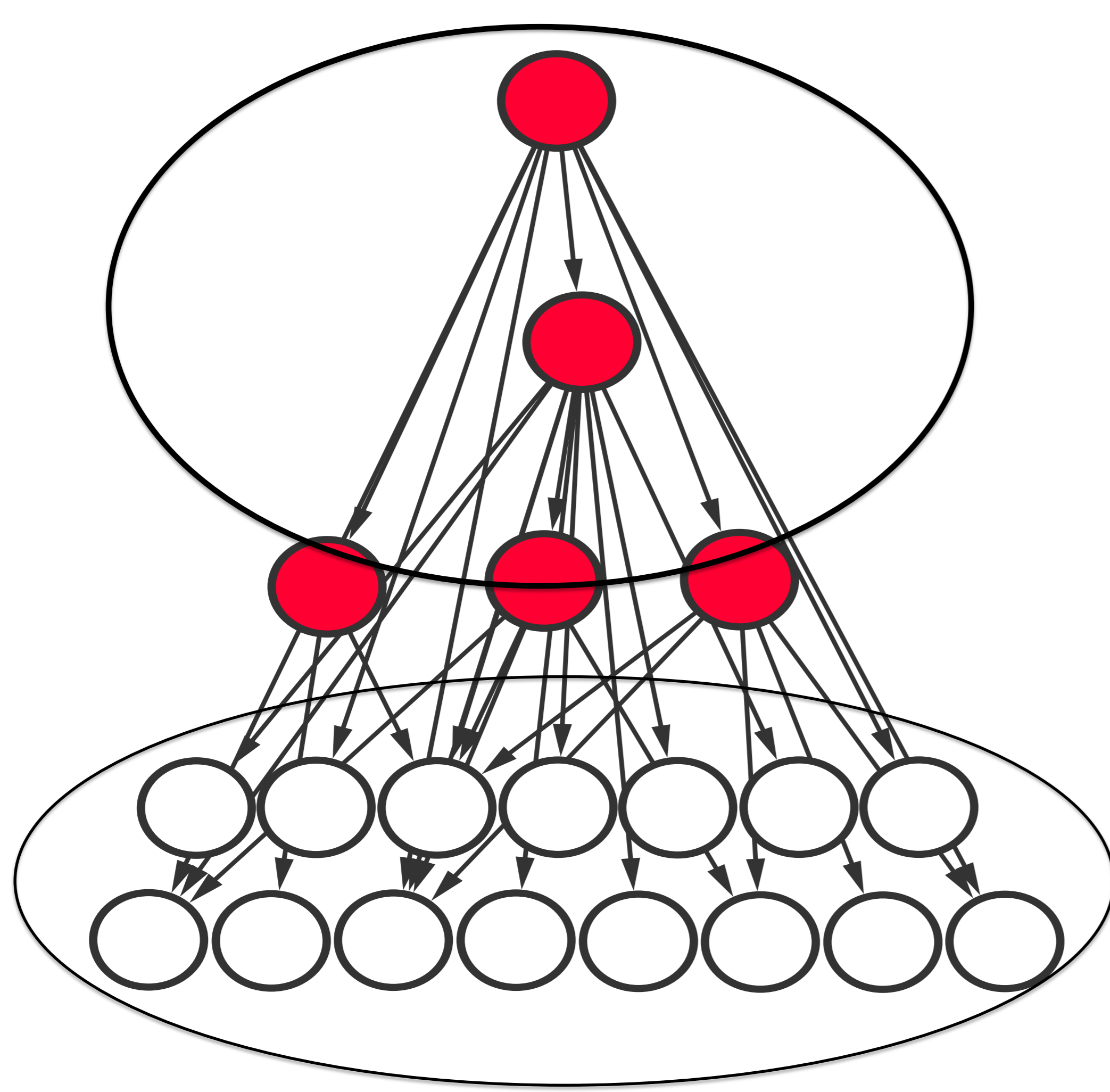


Gamergate

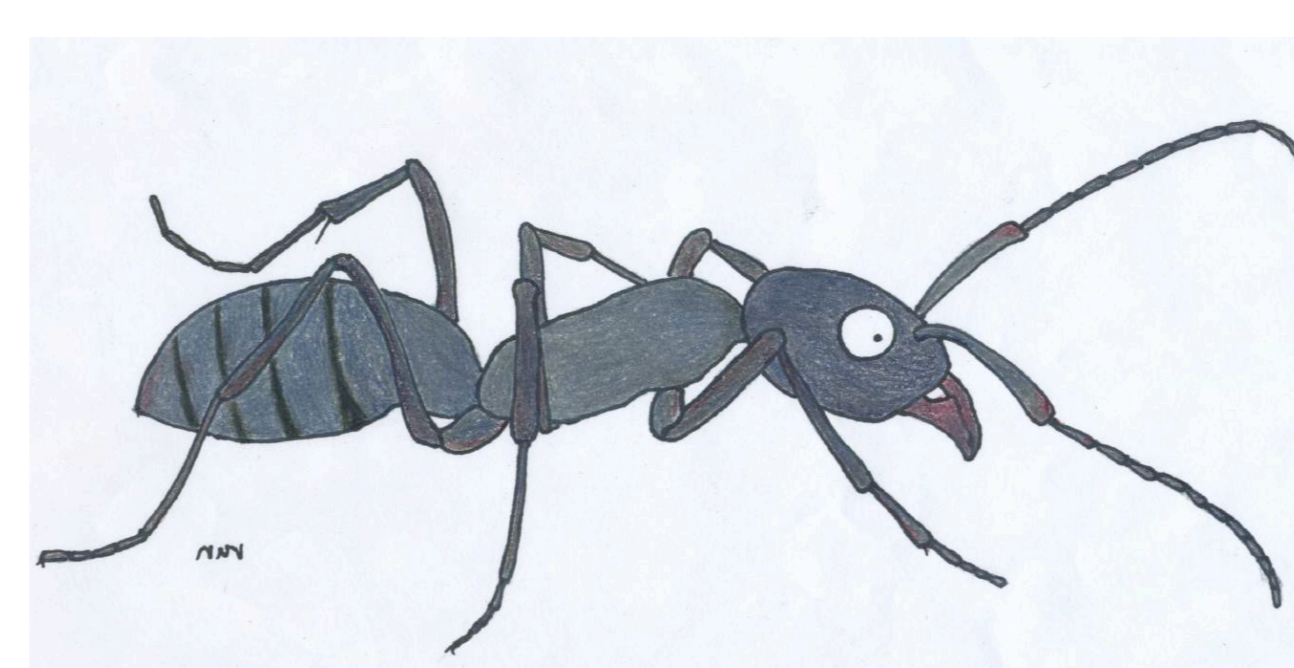


Workers

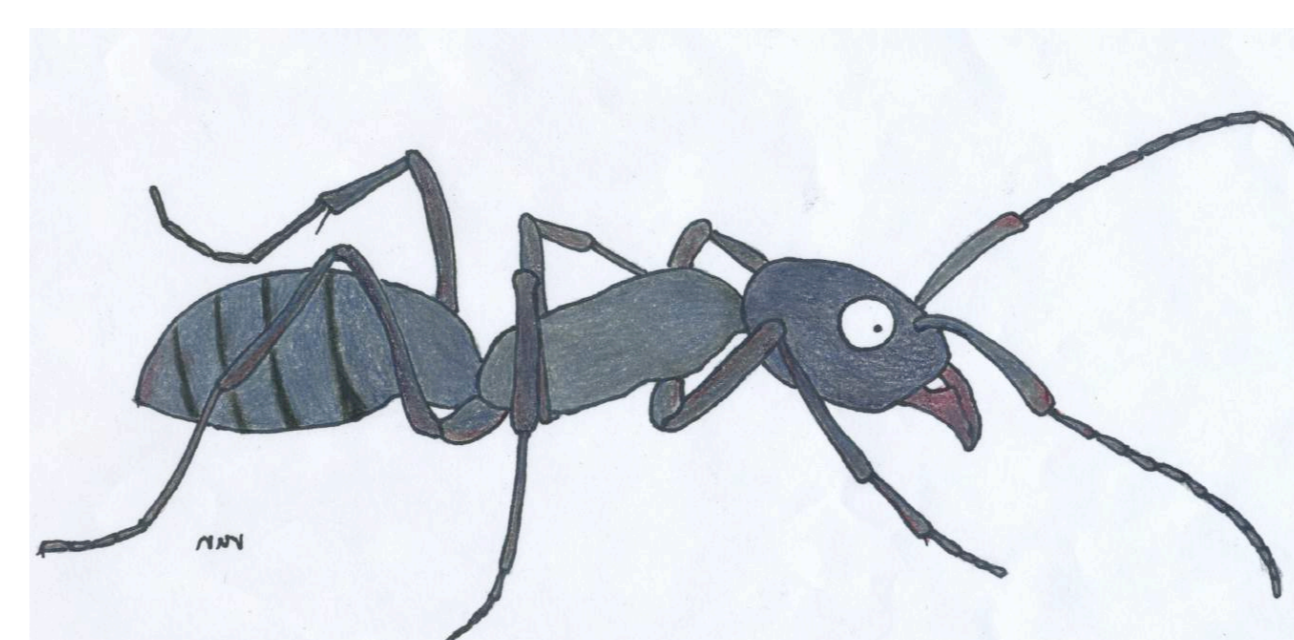
Does brain amines correlate with social status in hierarchy ?



Dominance hierarchy



Dominants



Subordinates



Dominance interaction

We'll present another version including original unpublished data in the poster.

Look forward to the poster session !!