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## Dissecting yeast-dependent population differentiation and spatial segregation in *Drosophila melanogaster*

Wang, Xiaocui

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Propositions accompanying the PhD thesis:

**Dissecting yeast-dependent population differentiation and spatial segregation in *Drosophila melanogaster***

Xiaocui Wang

1. Understanding ecological speciation requires a multidisciplinary perspective and a wealth of methodological tools (this thesis, chapter 2).
2. Dietary specialization in *Drosophila melanogaster* is limited by the lack of alignment across yeast-dependent life-history trait responses (this thesis, chapter 3).
3. Multiple factors including individuals' mating status, light condition and time since the encounter of another sex must be considered for understanding the spatial coupling of food and mates (this thesis, chapter 5).
4. Behavioral biology benefits from the automation of behavioral assays (this thesis, chapter 4).
5. Biology must generate ideas as well as data (Nurse, 2021).
6. Finding the right balance between thinking and doing is important for research: doing without thinking is fruitless; thinking without doing is dangerous (rephrased from Confucius).
7. Being fearless, flexible and forbearing is the key for the long and fluctuating PhD.