

## University of Groningen

### Toxic love

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Proposition accompanying the PhD thesis:

## **Toxic Love**

### Evolutionary genomics of the enigmatic Sex Peptide

Jessy Rouhana

1. Even after nearly 50 years of studies, Sex Peptide remains one of the most enigmatic seminal fluid peptides.
2. In nature there is more genetic and phenotypic diversity than can meet the scientists' eye (This thesis).
3. Sex Peptide controls a complex of female behaviours in *Drosophila melanogaster*; Sex Peptide affecting the transfer of a suite of seminal fluid proteins, possibly including male-produced neuropeptides that influence female behaviours, could explain this.
4. A GWAS constitutes a first step in revealing new putative targets of Sex Peptide; however, a lot more needs to be done to completely understand the full transduction pathways involved (This thesis).
5. By modulating nutrient balance, Sex Peptide can either inhibit or enable the insulin pathway, leading to an increase or a decrease in lifespan (This thesis).
6. The lack of correlations between different GWAS results indicates that Sex Peptide acts on more than one pathway (This thesis).
7. Evolution should be taught in all countries, also where religion controls the content of Science text books.
8. When following your dream there is no straight path to reach it.
9. Your children are not your children. They are the sons and daughters of Life's longing for itself. "Kahlil Gibran"