

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: *Lamprohiza splendidula* head EdgeR analysis for the identification of sex-biased genes.

File name: Supplementary data 2

Description: *Lamprohiza splendidula* abdomen EdgeR analysis for the identification of sex-biased genes.

File name: Supplementary Data 3

Description: *Luciola italica* head EdgeR analysis for the identification of sex-biased genes.

File name: Supplementary Data 4

Description: *Luciola italica* abdomen EdgeR analysis for the identification of sex-biased genes.

File name: Supplementary Data 5

Description: Data availability submitted to SRA.