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Global proteomic analysis of water buffalo (*Bubalus bubalis*) saliva at different stages of estrous cycle using high throughput mass spectrometry

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3 **estrous cycle using high throughput Mass Spectrometry**

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16
17 **Abstract**

18 Accurate and efficient detection of estrus is one of the major constraints for exploitation
19 of the production potential of buffalo owing to its poor manifestation of estrus signs, seasonal
20 differences in expression and higher incidences of silent estrus (29%). The current study focused
21 on identification of estrus specific candidate proteins in saliva of buffaloes. Estrus was detected
22 based on behavioral signs in response to the teaser and changes in reproductive organs and

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