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## Poster Session 1 – Form and Function

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### **3 Testicular luteinizing hormone receptor (Lhcgr) mRNA expression correlated to testis and seminal vesicles activities in the Libyan jird (*Meriones libycus*) in breeding season compared to non breeding season**

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The Libyan jird (*Meriones libycus*) is a wild desert rodent and a seasonal breeder species that adapted to breed when the environment conditions are able to satisfy the energy and hydrous request of pregnant and nursing females that to ensure the birth at the most favorable time of the year. We assessed gene expression of testicular Lhcgr by QRT-PCR and testis activity by a histological method in adult male Libyan jirds during the resting and the breeding seasons. Our results showed that Lhcgr mRNA expression was increased in autumn during the non breeding season and decreased in spring during the breeding season. This expression varied in opposite manner with testicular structure or function and plasma testosterone levels. These results provided important information for understanding the seasonal sexual activity of this desert rodent correlated to the central regulation.

# 459

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Jens Jacob, Jana Eccard (Editors)

6<sup>th</sup> International Conference of Rodent  
Biology and Management  
and  
16<sup>th</sup> Rodens et Spatium

Potsdam, Germany, 3-7 September 2018

Book of Abstracts



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