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Original Study

**Characterization of Canine Gingival-Derived
Mesenchymal Stem Cells and Their Exosomes****Yikuan Ji, MVM, Dr med. vet.^{1,*}, Wenkang Jiang, MVM^{2,*},
Fulan Zeng, MVM¹, Daofu Zou, MVM, Dr med. vet.¹,
Shaofang Li, MVM¹, Xianying Zhang, MVM¹, Qiong Zhu, Dr Med. Vet.¹,
Quanming Liang, Dr med. vet.¹, Meidi Li, DVM, PhD¹,
and Dongsheng Li, MVM, Pharm Sci³** **Transcriptome-wide m6A
methylation profiling of Wuhua
yellow-feathered chicken ovary
revealed regulatory pathways
underlying sexual maturation and
low egg-laying performance**Congjun Jia^{1,2}, Mengling Zhang^{1,2}, Xiaoyan Liu^{1,2}, Weilin Xu^{1,2},
Yanqing Xiong^{1,2}, Rihao Huang^{1,2}, Meidi Li^{1,2*} and Mingna Li^{3*}¹College of Agricultural Engineering, Guangdong Meizhou Vocational and Technical College, Meizhou, China, ²Meizhou Engineering Research Center for Veterinary Medicine and Natural Medicine, Meizhou, China, ³College of Animal Science and Technology, Gansu Agricultural University, Lanzhou, China

RNA N6-methyladenosine (m6A) can play an important role in regulation of various biological processes. Chicken ovary development is closely related to egg laying performance, which is a process primarily controlled by complex gene regulations. In this study, transcriptome-wide m6A methylation of the Wuhua yellow-feathered chicken ovaries before and after sexual maturation was profiled to identify the potential molecular mechanisms underlying chicken ovary development. The results indicated that m6A levels of mRNAs were altered dramatically during sexual maturity. A total of 1,476 differential m6A peaks were found between these two stages with 662 significantly upregulated methylation peaks and 814 downregulated methylation peaks after sexual maturation. A positive correlation was observed between the m6A peaks and gene expression levels, indicating that m6A may play an important role in regulation of chicken ovary development. Functional enrichment analysis indicated that apoptosis related pathways could be the key molecular regulatory pathway underlying the poor reproductive performance of Wuhua yellow-feathered chicken. Overall, the various pathways and corresponding candidate genes identified here could be useful to facilitate molecular design

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Protection efficacy of the H1 and H3 bivalent virus-like particle vaccine against swine influenza virus infection



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Research Article

Self-Assembled Biofunctionalized Chitosan-Derived Nanocomposite for Long-Lasting Antibacterial Packaging at Room Temperature

Jingxian Yang, Gangwen Chen, Jianhong Chen, Yong Liu, Ziyang Yang, Xugang Shu,* and Fan Luo*

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中兽药裸花紫珠颗粒抗菌、抗炎及 抗氧化活性研究

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裸花紫珠颗粒对罗非鱼源无乳链球菌体外抑菌活性研究

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黄军文

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曾纯

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饲喂量对妊娠后期母猪繁殖性能的影响

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