

Accepted Manuscript

Lupeol supplementation improves the developmental competence of bovine embryos *in vitro*

Imran Khan, M.M.R. Chowdhury, Seok-Hwan Song, Ayman Mesalam, Shimin Zhang, Atif Ali Khan Khalil, Eun-Hee Jung, Ju-Boong Kim, Laila Jafri, Bushra Mirza, Il-Keun Kong

PII: S0093-691X(17)30558-7

DOI: [10.1016/j.theriogenology.2017.11.017](https://doi.org/10.1016/j.theriogenology.2017.11.017)

Reference: THE 14349

To appear in: *Theriogenology*

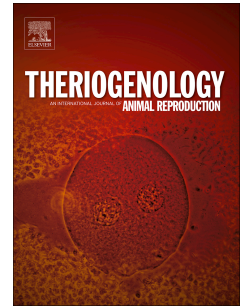
Received Date: 17 August 2017

Revised Date: 11 November 2017

Accepted Date: 12 November 2017

Please cite this article as: Khan I, Chowdhury MMR, Song S-H, Mesalam A, Zhang S, Khan Khalil AA, Jung E-H, Kim J-B, Jafri L, Mirza B, Kong I-K, Lupeol supplementation improves the developmental competence of bovine embryos *in vitro*, *Theriogenology* (2017), doi: 10.1016/j.theriogenology.2017.11.017.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



1 **Lupeol supplementation improves the developmental competence of bovine**
2 **embryos *in vitro***

3
4 **Imran Khan^{a,b,†}, MMR Chowdhury^{a,d,†}, Seok-Hwan Song^{a,†}, Ayman Mesalam^{a,c}, Shimin**
5 **Zhang^a, Atif Ali Khan Khalil^e, Eun-Hee Jung^f, Ju-Boong Kim^f, Laila Jafri^j, Bushra Mirza^j,**
6 **and Il-Keun Kong^{a*}**

7 *^a Department of Animal Science, Division of Applied Life Science (BK21 Plus), Institute of*
8 *Agriculture and Life Science, Gyeongsang National University, Jinju 52828, Gyeongnam*
9 *Province, Republic of Korea*

10 *^b Department of Chemistry Bacha Khan University Charsadda KPK Pakistan*

11 *^c Department of Theriogenology, Faculty of Veterinary Medicine, Zagazig University, 44519,*
12 *Egypt*

13 *^d Department of Physiology and Pharmacology, Faculty of Animal Science and Veterinary*
14 *Medicine, Patuakhali Science and Technology University, 8210, Bangladesh*

15 *^e College of Pharmacy and Research Institute of Pharmaceutical Sciences, Gyeongsang National*
16 *University, Jinju 52828, Republic of Korea*

17 *^f Gyeongnam Provincial Government Livestock Promotion Research Institute Central Branch*

18 *^j Department of Biochemistry, Quaid-i-Azam University, Islamabad, 45320, Pakistan*

19
20 **[†] These authors contributed equally.**

Download English Version:

<https://daneshyari.com/en/article/8427769>

Download Persian Version:

<https://daneshyari.com/article/8427769>

[Daneshyari.com](https://daneshyari.com)