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Author Correction: Mianserin suppresses R-spondin 2-induced activation of Wnt/ β -catenin signaling in chondrocytes and prevents cartilage degradation in a rat model of osteoarthritis

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Correction to: *Scientific Reports* <https://doi.org/10.1038/s41598-019-39393-x>, published online 26 February 2019

This Article contains errors in the Reference list. Reference 21 is incorrectly listed as:

Masahiro N. *et al.* A genome-wide association study identifies susceptibility loci for ossification of the posterior longitudinal ligament of the spine. *Nature Genetics* **46**(9), 1012–1016 (2014).

The correct reference is listed below as ref. 1.

Additionally, Reference 23 is incorrectly listed as:

Rita D. Hypertrophic differentiation of chondrocytes in osteoarthritis: the developmental aspect of degenerative joint disorders. *Arthritis Research & Therapy* **12**(5), 216 (2010).

The correct reference is listed below as ref. 2.

Furthermore, Reference 25 is incorrectly listed as:

Marlies, B. *et al.* The Reason for Discontinuation of the First Tumor Necrosis Factor (TNF) Blocking Agent Does Not Influence the Effect of a Second TNF Blocking Agent in Patients with Rheumatoid Arthritis. *The Journal of Rheumatology* **36**(10), 2171–2177 (2009).

The correct reference is listed below as ref. 3.

In addition, there is an error in the legend of Figure 4, where:

“The number of β -catenin-positive cells is divided by the number of DAPI signals to calculate the ratio of nuclear β -catenin-positive cells. The number of β -catenin-positive cells is divided by the number of DAPI signals to calculate the ratio of nuclear β -catenin-positive cells. * $P < 0.05$ by one-way ANOVA followed by Tukey’s *post-hoc* test. Scale = bar 200 μm (A), 100 μm (C), and 25 μm (D). (G) Model of Rspo2-mediated OA development, and the effect of mianserin.”

should read:

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“The number of β -catenin-positive cells is divided by the number of DAPI signals to calculate the ratio of nuclear β -catenin-positive cells. * $P < 0.05$ by one-way ANOVA followed by Tukey’s *post-hoc* test. Scale bar = 200 μm (A), 100 μm (C), and 25 μm (D). (G) Model of Rspo2-mediated OA development, and the effect of mianserin.”

References

1. Nakajima, M. *et al.* A genome-wide association study identifies susceptibility loci for ossification of the posterior longitudinal ligament of the spine. *Nature Genetics* **46**(9), 1012–1016 (2014).
2. Dreier, R. Hypertrophic differentiation of chondrocytes in osteoarthritis: the developmental aspect of degenerative joint disorders. *Arthritis Research & Therapy* **12**(5), 216 (2010).
3. Blom, M. *et al.* The Reason for Discontinuation of the First Tumor Necrosis Factor (TNF) Blocking Agent Does Not Influence the Effect of a Second TNF Blocking Agent in Patients with Rheumatoid Arthritis. *The Journal of Rheumatology* **36**(10), 2171–2177 (2009).



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