

Table S4 Potential role of hsa-miR-1826 in OA

| Gene name ^a | miRTarBase ID | Evidence ^b | Publications in miRTarBase | Disease | Function/process | Relevance for OA |
|------------------------|----------------------------|-----------------------|----------------------------|--------------------------|---|---|
| CTNNB1 | MIRT006602 | 2 + 0 | 2 | Bladder and renal cancer | Also known as β -catenin. Key co-activator for transcription factors in canonical Wnt signalling. | Aberrant Wnt signalling may contribute to OA but role is complex (reviewed in ^{1,2}). |
| MAPK21 | MIRT006601 | 2 + 0 | 2 | Bladder and renal cancer | Kinase involved in MAPK/ERK signalling. | MAPK/ERK signalling may regulate expression of pro-inflammatory cytokines and MMPs ³ |
| VEGFC | MIRT006603 | 2 + 0 | 1 | Bladder cancer | Growth factor that binds to receptors to activate VEGF signalling. | VEGF signalling may play a role in OA ⁴ . |

Notes: ^aHGNC (HUGO Gene Nomenclature Committee) approved symbol. ^bStrength of evidence is given by the number of different validation methods. The first integer represents strong evidence (reporter assay, Western blot or qPCR). The second integer represents less strong evidence (microarray, NGS, pSILAC or other).

References

- 1 Luyten, F. P., Tylzanowski, P. & Lories, R. J. Wnt signaling and osteoarthritis. *Bone* **44**, 522-527, doi:<http://dx.doi.org/10.1016/j.bone.2008.12.006> (2009).
- 2 Sassi, N. *et al.* WNT signaling and chondrocytes: from cell fate determination to osteoarthritis physiopathology. *J. Recept. Signal Transduct.* **34**, 73-80, doi:10.3109/10799893.2013.863919 (2014).
- 3 Loeser, R. F., Erickson, E. A. & Long, D. L. Mitogen-activated protein kinases as therapeutic targets in osteoarthritis. *Curr. Opin. Rheumatol.* **20**, 581-586, doi:10.1097/BOR.0b013e3283090463 (2008).
- 4 Murata, M., Yudoh, K. & Masuko, K. The potential role of vascular endothelial growth factor (VEGF) in cartilage. *Osteoarthritis and Cartilage* **16**, 279-286, doi:<http://dx.doi.org/10.1016/j.joca.2007.09.003> (2008).