



OPEN Editorial Expression of Concern: Integrating bioinformatics and experimental validation to Investigate *IRF1* as a novel biomarker for nucleus pulposus cells necroptosis in intervertebral disc degeneration

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The Editors are issuing an Editorial Expression of Concern to alert readers that this Article shows an unusual citation pattern. A significant number of references (references 8–14) are not clearly relevant to the text where the citation is included or to the overall topic of the Article. Readers are advised to interpret the relevance of these references to this Article with caution.

All Authors agree with this Editorial Expression of Concern.

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