**Research:** LPS can cause results misinterpretation by affecting:

- Cell viability and proliferation
- Functional cell performance
- Differentiation of stem cells

**Patient:** LPS can cause immune reactions

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1. **Chondrogenic differentiation of Mesenchymal Stem Cells may be negatively impacted by the presence of endotoxins**

An overall trend in a decreased glycosaminoglycans (GAG) production could be observed in high-endotoxin type A gelatin-based hydrogels.

2. **High levels of endotoxins may stimulate an immune response in Peripheral Blood Mononuclear Cells (PBMCs)**

PBMCs cultured in high-endotoxin hydrogels release significantly more tumour necrosis factor-α (TNF-α) compared to low-endotoxin hydrogels.

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