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The immunomodulatory function of Equine MSCs is enhanced by priming through an inflammatory microenvironment or TLR3 ligand.

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Highlights:

- Priming of MSCs through TLR3 or TLR4 receptors increases their immunomodulatory function.
- The polarization paradigm was tested for the first time in Equine MSCs.
- In contrast to the polarization paradigm, exposure of Equine MSC to inflammatory macrophages enhances immunomodulation more than TLR3 or TLR4 priming.
- MHC class II positive MSCs have a greater magnitude of response compared to MHC class II negative MSCs.

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