

**P005** The response of highly-purified neutrophils to IL-1

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Purified neutrophils have been shown to respond to LPS with IL-1 release and enhanced survival, despite their predominant expression of the decoy IL-1R2 rather than the functional IL-1R1. However, using neutrophils highly purified by negative magnetic selection, we recently showed that some responses of neutrophils previously attributed solely to these cells might in fact be significantly dependent upon contaminating peripheral blood mononuclear cells in routine cell preparations. We therefore examined the effects of IL-1 on highly-purified neutrophils. We found that these cells showed no response to a biologically-active IL-1 preparation in assays of L-selectin shedding. Neutrophil survival was not significantly enhanced by IL-1 at either early or late time points, nor could IL-1-induced survival be induced by priming of neutrophils with LPS. IL-1 also failed to induce IL-8 generation in a dose-dependent fashion from highly-purified cells. In contrast, relevant control agonists (e.g., LPS) were active in all these assays. We conclude that some actions of IL-1 may therefore be mediated via monocytes contaminating routine cell preparations.