

## Timothy A. Pritts, MD, PhD

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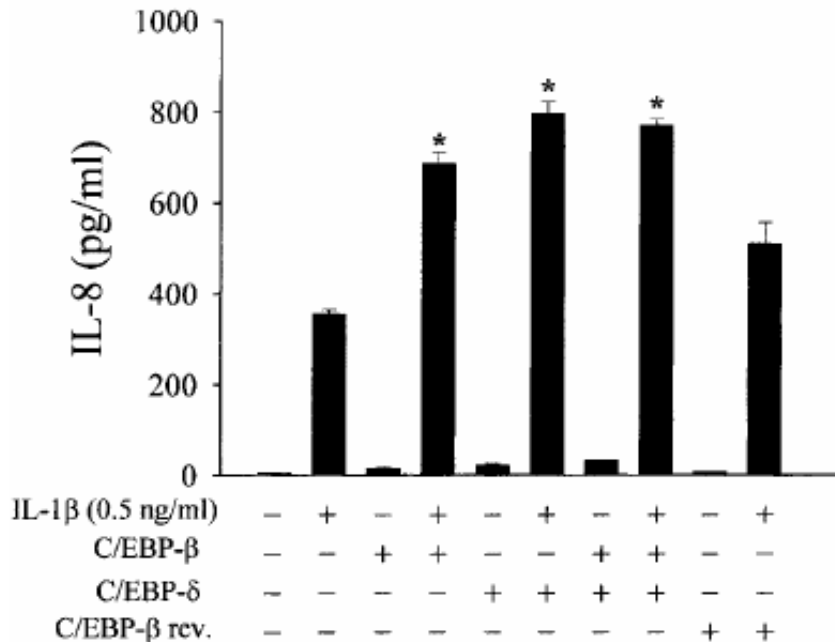
### Description of Research:

Dr. Pritts' research interests revolve around the role of intestinal epithelial cells and the intestinal mucosa in the inflammatory response to injury and infection. Past studies have examined NF- $\kappa$ B activation and cytokine production in the gut during endotoxemia, as well as the modulation of this response by heat shock proteins. His current studies aim to explore the role of Toll-like receptors in the pathogenesis of the systemic inflammatory response. An additional interest is the effect of injury on intestinal mucosal structure and barrier function.

### Collaborations:

Dr. Pritts collaborates with Dr. Lentsch investigating the acute inflammatory response in intestinal mucosa and with Dr. Chip Montrose utilizing the live microscopy core.

### Representative Figure:



IL-1 $\beta$ -induced IL-8 production is potentiated in Caco-2 cells overexpressing C/EBP- $\beta$  or  $\delta$ . Caco-2 cells were transfected with expression plasmids for C/EBP- $\beta$  or  $\delta$  or C/EBP- $\beta$  reversed (rev). Twenty-four hours after transfection, cells were treated for twenty-four hours with 0.5 ng/ml IL-1 $\beta$ . \*P < 0.05 vs. IL-1 $\beta$ . Fig. 6 from J. Cell Physiol, 2002; 192:64-70.