

And the award for the Best Actor goes to...

Cortisol/IL-6:

- · Fight/flight
- Drives IL-6
- Induces Intestinal Permeability
- · Broken down in GI by microbes
- Derivatives sent to kidneys Na-BP
- · IL-6 reduces glucocorticoid receptors
 - · IL-6 visceral triggers pain binding to nocireceptors
 - Pain leads to anxiety/ depression



Designs for Health ProbioCalm 1714 **ProbioSpore**







Bifidobacterium Longum (1714) - Cortisol:

- · Lower allostatic load
 - · Peaks are lower
- · Recovery of HPA is quicker
- Increases glucocorticoid receptors sensitivity lowering HPA excess

SporeBiotics/LPS:

- 60% reduction in 30 days
- Reduces LPS inflammation and endotoxemia
 - · Reduces IP
 - LPS triggers IL-6

