Protective mechanisms against environmental stresses leading to therapeutic strategies for chronic inflammation

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Abstract
We are constantly exposed to various environmental stresses in our daily life, including chemicals, ultra-violet light, pathogenic microorganisms, and dietary toxicants. Cellular detoxification is crucial for the maintenance of health by providing protection against these environmental stresses. The aim of this study is to clarify how dysregulation of stress responses exacerbates chronic inflammatory diseases and also, to evaluate the effectiveness of intervention into the cytoprotection mechanisms to prevent and alleviate these pathologic conditions. Our research aims to identify novel relationships between environmental stresses and chronic inflammation and provide advances in therapeutic strategies for chronic inflammatory diseases.