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### 个人简历

#### 科研领域描述

本实验室主要兴趣在于:  
 转录因子NF- $\kappa$ B活化的细胞内信号途径及调控机制

NF- $\kappa$ B (nuclear factor- $\kappa$ B) 是在各种类型细胞中广泛表达的重要转录因子。通常与抑制因子I $\kappa$ Bs (inhibitor  $\kappa$ B) 相结合, 以非活性形式存在于细胞质中。在外界刺激因素如病原体感染、肿瘤或癌症诱导剂等的作用下, NF- $\kappa$ B被激活, 启动大量与细胞应急状态相关的基因的转录, 导致多种细胞生理效应, 如: 固有免疫及获得性免疫应答, 炎症反应, 促进细胞增殖及永生等。NF- $\kappa$ B必须适度活化才对人体有利。活化不足会造成人体对各种病原体的免疫缺陷, 而过度活化则会导致肿瘤及风湿性关节炎等疾病。我们运用酵母双杂交 (Yeast Two-hybrid Screening System) 等细胞及分子生物学手段, 克隆NF- $\kappa$ B活化相关信号通路中的关键性信号分子和调节因子。研究成果将有助于阐明信号转导的分子机制, 同时能够为相关疾病的治疗提供药物设计靶标。

#### Research Description:

NF- $\kappa$ B is a ubiquitously expressed transcription factor that is normally sequestered by inhibitory proteins I $\kappa$ Bs in the cytoplasm. NF- $\kappa$ B is activated by divergent stimuli, such as microbial pathogens, carcinogens and tumor promoters. Activated NF- $\kappa$ B regulates the expression of a large number of genes, including those involved in innate and adaptive immune responses, inflammatory responses, cellular transformation and proliferation. De-regulation of NF- $\kappa$ B is involved in a wide range of human diseases, such as immune deficiency, rheumatoid arthritis and cancer. We take cellular and molecular approaches to identify signaling proteins and regulatory proteins that critically involved in NF- $\kappa$ B activation pathways. We hope to contribute to understanding of the signaling mechanisms and may also suggest new targets for drugs development

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