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## Pim1 kinase: a double-edged sword

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# **Pim1 kinase: a double-edged sword**

The divergent roles of a survival kinase in environment-airway epithelium interaction

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The research described in this thesis was performed within the Graduate School of Medical Sciences (GSMS) of the University of Groningen and the Groningen Research Institute for Asthma and COPD (GRIAC). The studies were performed in the Experimental Pulmonology and Inflammation Research (EXPIRE) group of the department of Pathology and Medical Biology of the University Medical Center Groningen, The Netherlands and in the Brooke Laboratory of the Academic Unit of Clinical and Experimental Sciences of the University Hospital Southampton, United Kingdom.

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The divergent roles of a survival kinase in environment-  
airway epithelium interaction

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