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**DOCTOR OF PHILOSOPHY**

**Investigation of KATP channel function in response to metabolic and pharmacological manipulation, in the hypothalamic GT1-7 cell line**

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**Investigation of  $K_{ATP}$  channel  
function in response to metabolic  
and pharmacological manipulation,  
in the hypothalamic GT1-7 cell line**

by

**Elizabeth Haythorne**

Thesis submitted for the degree of Doctor of Philosophy  
University of Dundee  
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