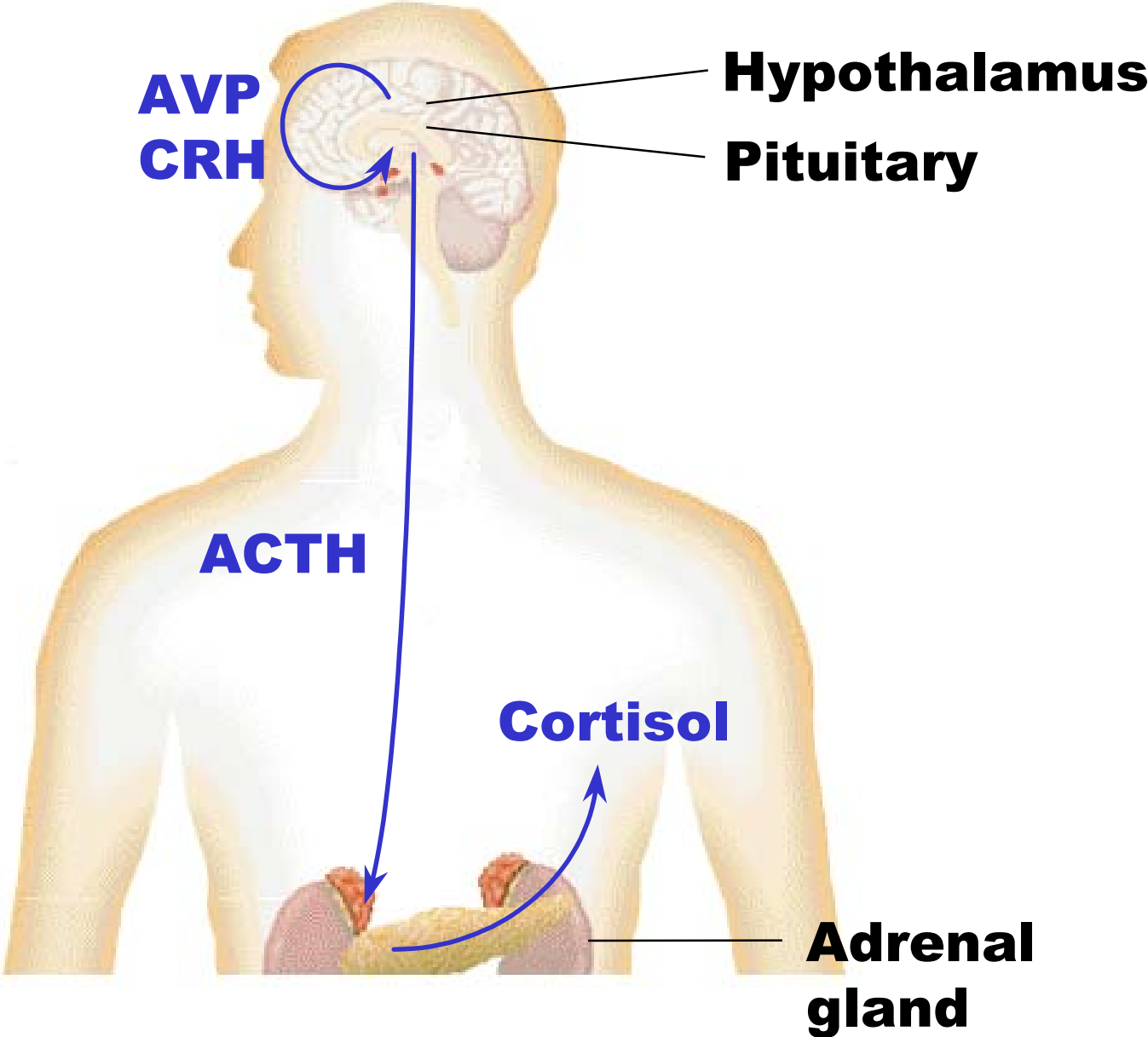


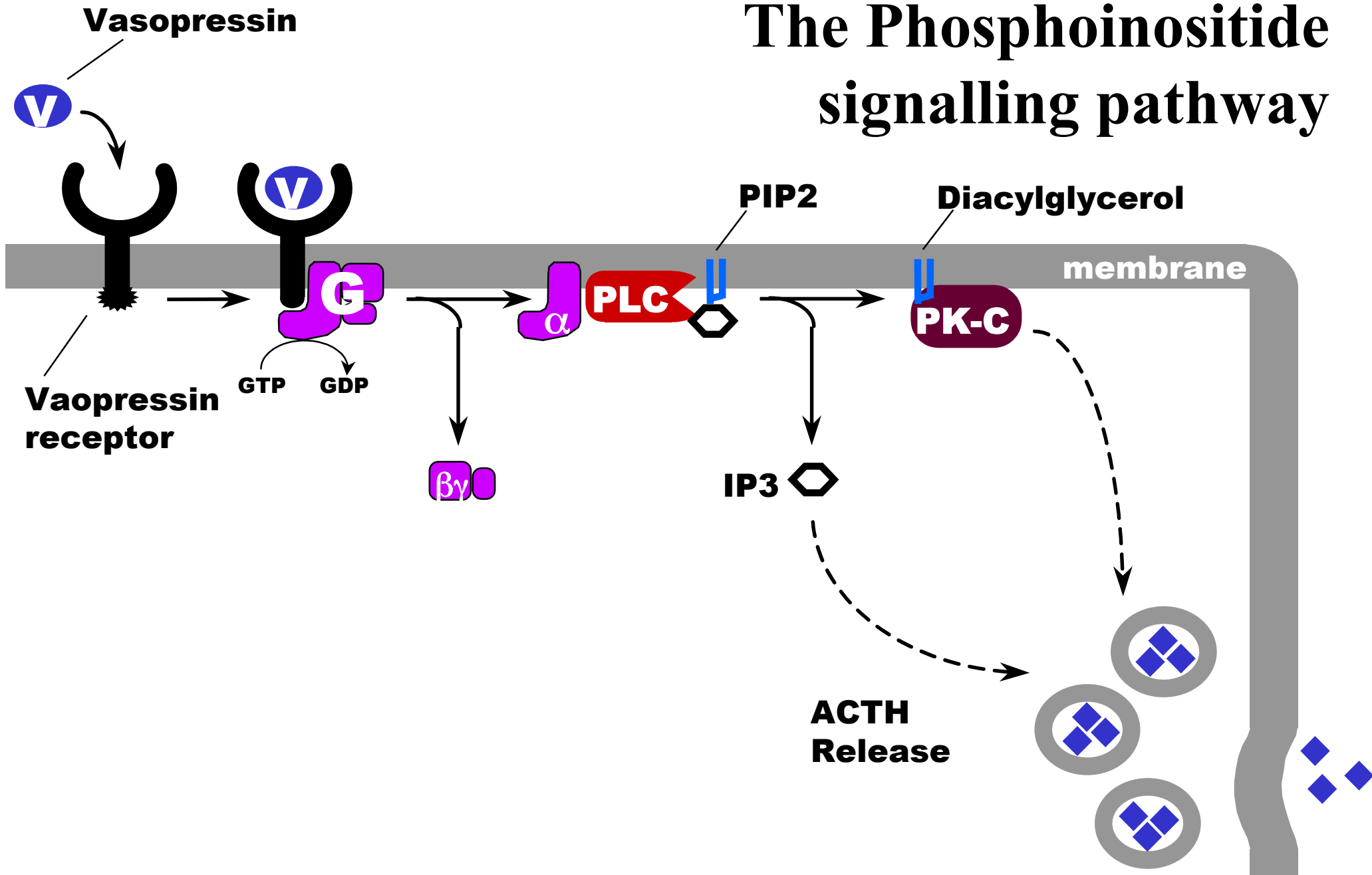
# **Rapid desensitization and recovery of the adrenocorticotropin response of anterior pituitary cells to arginine vasopressin**

A.M.A. Hassan and D.R. Mason  
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University of Canterbury

# The HPA axis

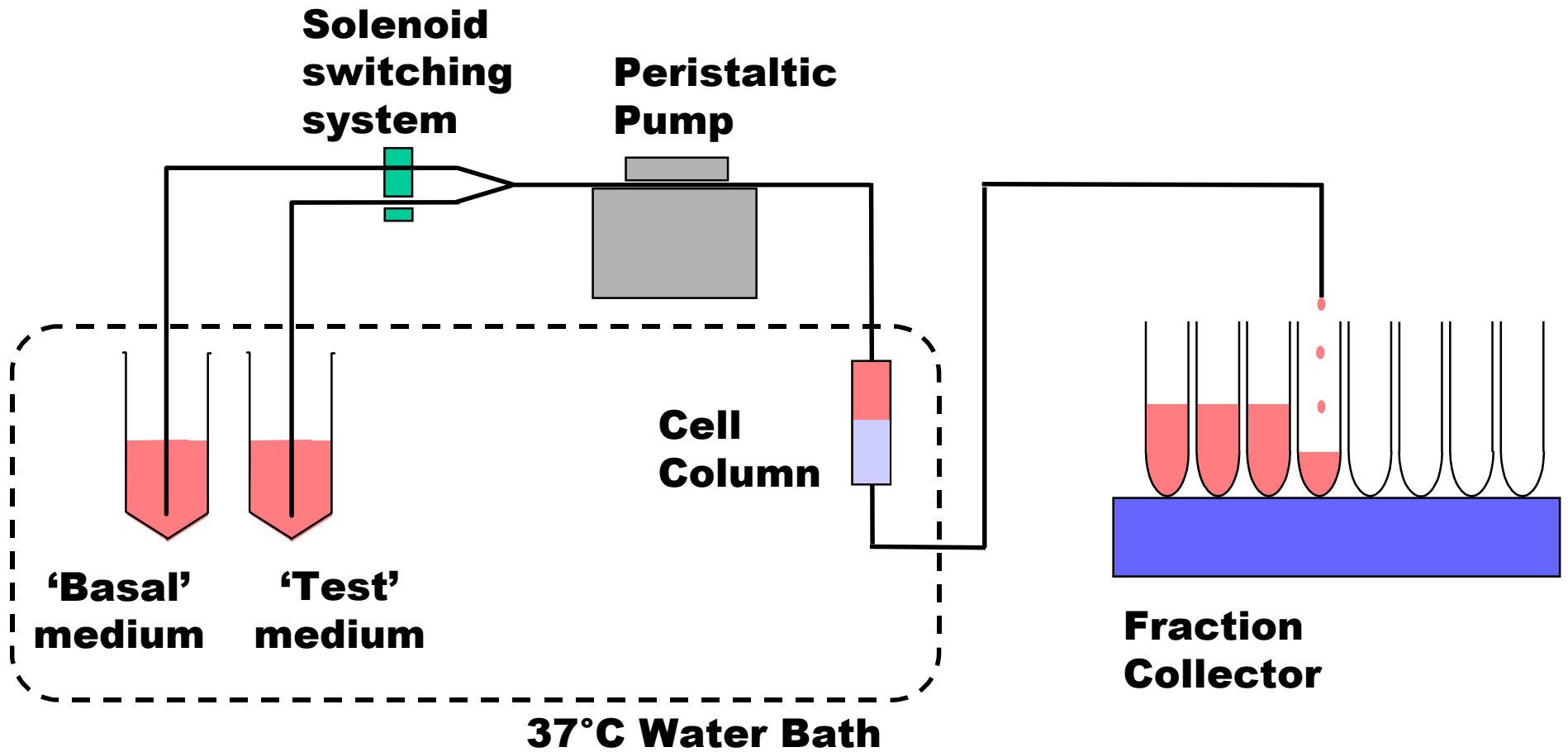


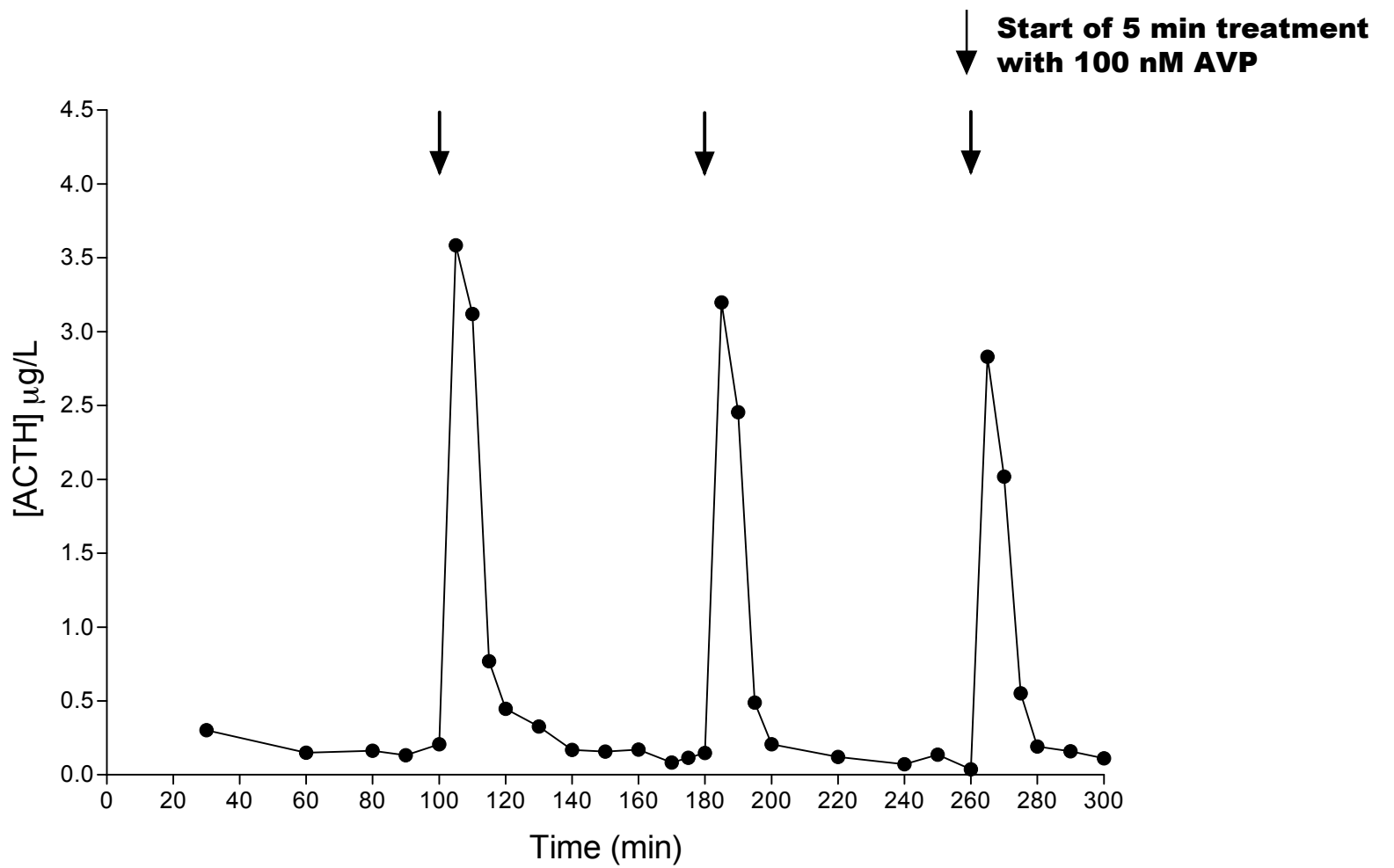
# The Phosphoinositide signalling pathway



**Desensitization is the reduction in  
response to a repeated or  
long-lasting stimulus**

# Multi-column perfusion system

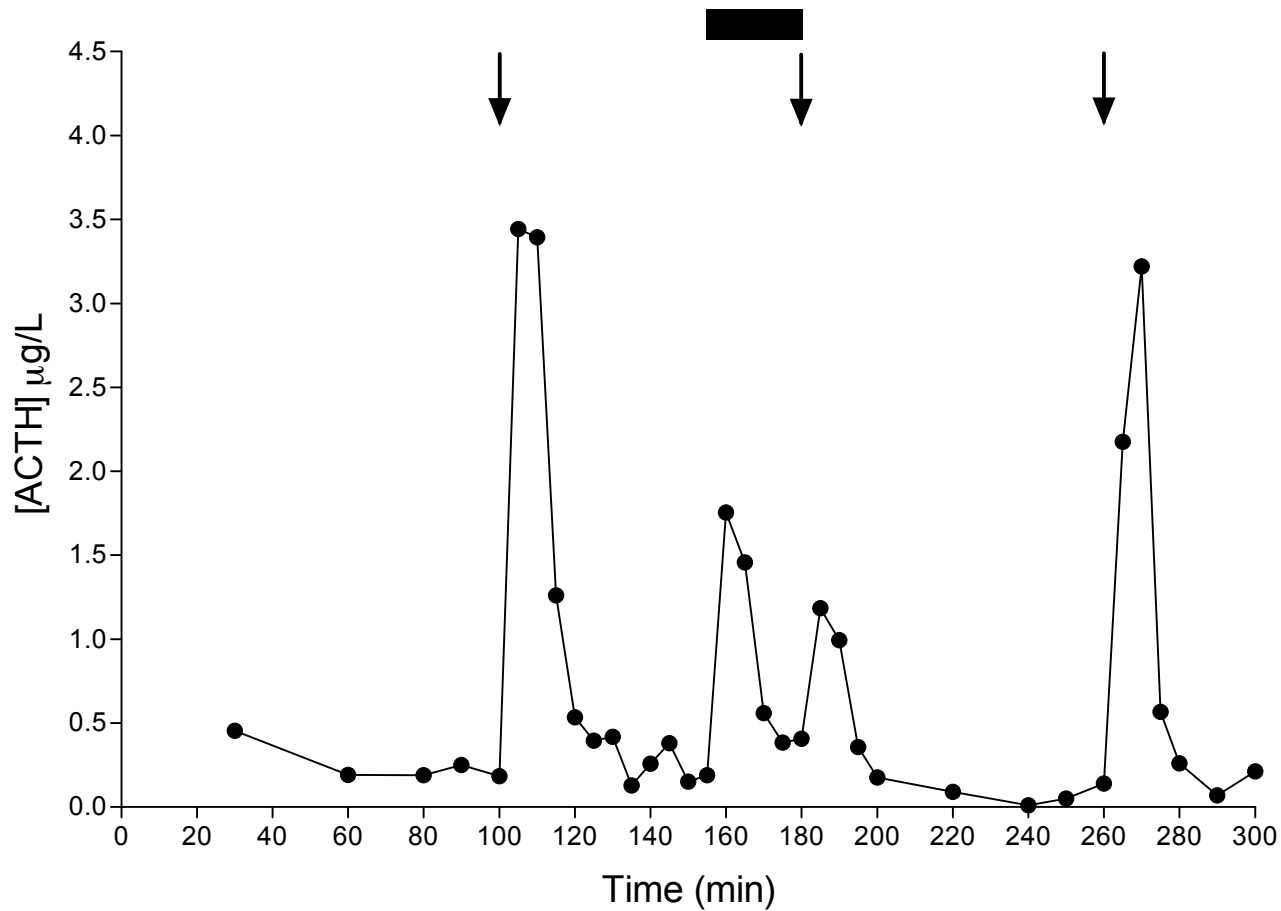




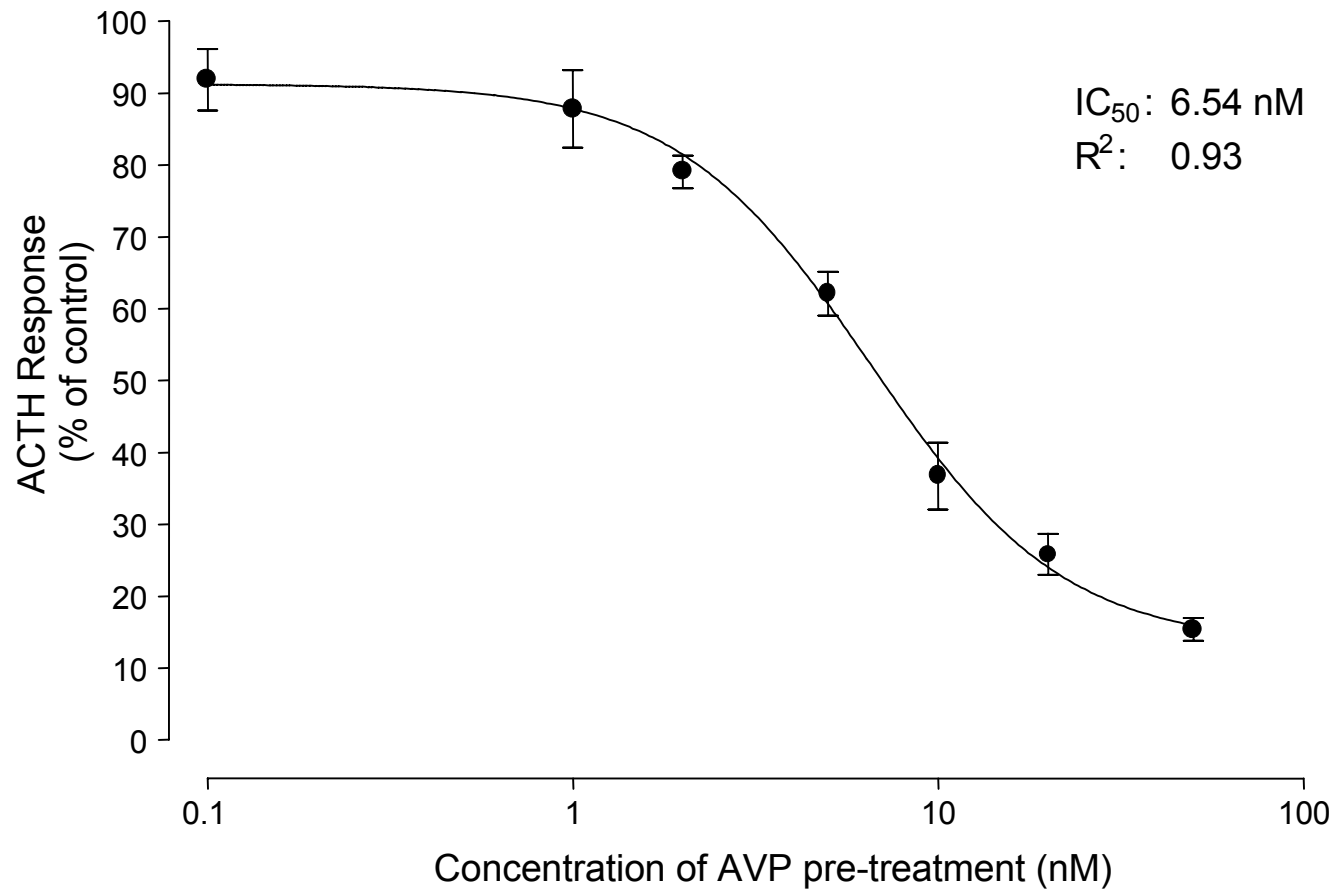
# Desensitization of the ACTH response to AVP

↓ Start of 5 min treatment with 100 nM AVP

■ 25 min pre-treatment with 10 nM AVP

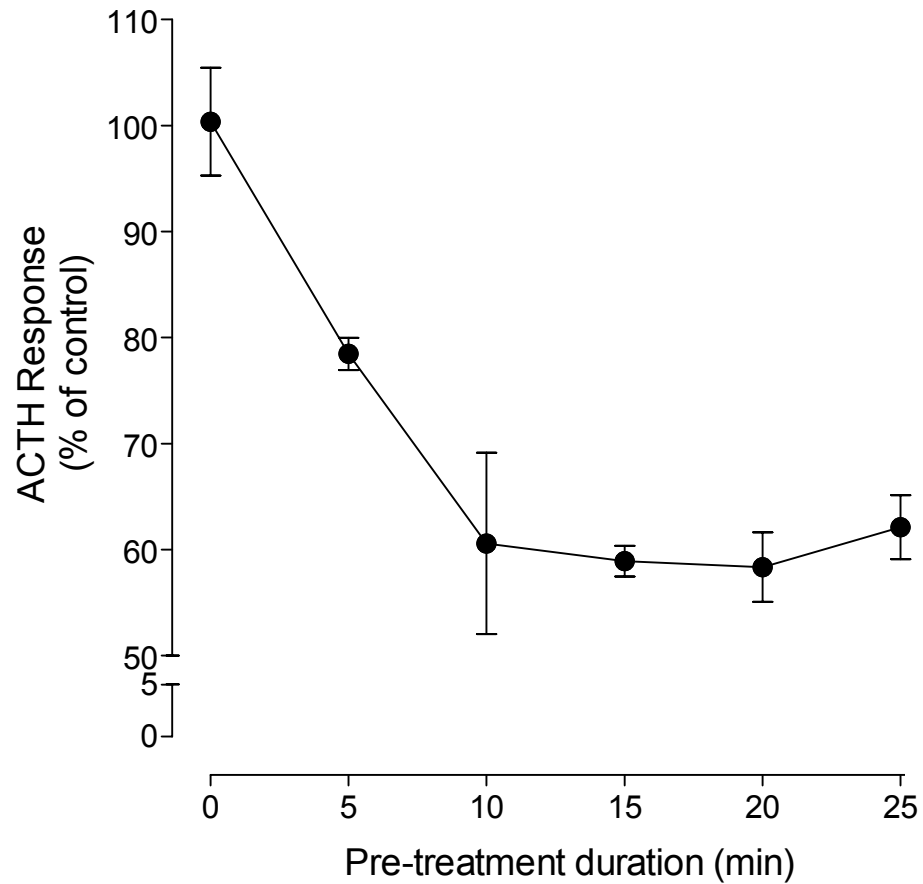


# Effect of pre-treatment dose on desensitization





# Effect of pre-treatment duration on desensitization



# Recovery of the ACTH response to AVP following desensitization

