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### Regulation of pyruvate catabolism in *Escherichia coli*: the role of redox environment

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Regulation of pyruvate catabolism in *Escherichia coli*:  
the role of the redox environment

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor  
aan de Universiteit van Amsterdam  
op gezag van de Rector Magnificus prof. dr. J.J.M. Franse  
ten overstaan van een door het College voor Promoties ingestelde  
commissie in het openbaar te verdedigen in de Aula der Universiteit  
op donderdag 28 januari 1999 te 11:00 uur

door  
Markus Robert de Graef  
geboren te Amsterdam

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Promotor

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