

# VU Research Portal

## Enzymatic Activity and Excited State Processes in Protochlorophyllide Oxidoreductase

Sytina, O.

2010

### **document version**

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

### **citation for published version (APA)**

Sytina, O. (2010). *Enzymatic Activity and Excited State Processes in Protochlorophyllide Oxidoreductase*.

### **General rights**

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal ?

### **Take down policy**

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

### **E-mail address:**

[vuresearchportal.ub@vu.nl](mailto:vuresearchportal.ub@vu.nl)

Enzymatic Activity and Excited State Processes  
in Protochlorophyllide Oxidoreductase

2010

This thesis was reviewed by:

dr. D.J.Heyes, University of Manchester, UK

prof. dr. C.N.Hunter, University of Sheffield, UK

dr. J. Kennis, Vrije Universiteit Amsterdam, the Netherlands

prof. dr. J. Knoester, University of Groningen , the Netherlands

dr. F. van Mourik, Ecole Polytechnique, Lausanne, Switzerland

The work described in this thesis was carried out at the Laser Centre of the Vrije Universiteit Amsterdam and financially supported by the Netherlands Organization for Scientific Research (NWO) provided via CW-NWO-TOP (grant 700.53.307), and NWO-ALW-Vidi (grant 831.00.004).

ISBN/EAN: 978-90-5335-244-1

Printed by Ridderprint BV, The Netherlands

VRIJE UNIVERSITEIT

Enzymatic Activity and Excited State Processes in  
Protochlorophyllide Oxidoreductase

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad Doctor aan  
de Vrije Universiteit Amsterdam,  
op gezag van de rector magnificus  
prof.dr. L.M. Bouter,  
in het openbaar te verdedigen  
ten overstaan van de promotiecommissie  
van de faculteit der Exacte Wetenschappen  
op dinsdag 9 februari 2010 om 13.45 uur  
in de aula van de universiteit,  
De Boelelaan 1105

door

**Olga Alexandrovna Sytina**

geboren te Novosibirsk, Rusland

promotor: prof.dr. M.L. Groot  
copromotor: prof.dr. R. van Grondelle

*To my dear family*

