

Volume 1797, Issue 5, May 2010



Front cover image: The structure of the two catalytic Front cover image: The structure of the two catalytic core subunits I (green) and II (cyan) of cylochrome c oxidase from Rhodobacter sphaeroides within a membrane. Metal centers are shown as spheres: Deoxycholater esolved near one of the proton pathways of the enzyme is shown in red. Water molecules within the pathways are shown as red spheres. The molecule in blue and red is a detergent molecule, but the proton of the

was added by Linda Näsvik Öjemyr at Stockholm University.

Publication information: Biochimica et Biophysica Acta (Bioenergetics) (ISSN 0005-2728). For 2010, Volume 1797 (12 issues) is scheduled for publication. Subscription prices are available upon request from the Publisher, from the Elsevier Customer Service Department nearest you, or from this journal and other Elsevier notes available upon request from the Publisher, from the Blevier Customer Service Department nearest you, or from this journal and other Elsevier poducts through Elsevier's website (http://www.elsevier.com/). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Lurope). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch. at Biophysica Acta (Bioenergetics) (ISSN 0005-2728) is published monthly by Elsevier B.V. (Radanweg 29, 1043 NX Amsterdam, The Netherlands). Periodicals postage paid at Rahway, N) 07065-9998, USA, and at additional mailing offices. USA POSTMASTER. Send change of address to Biochimica et Biophysica Acta (Bioenergetics), Elsevier Customer Service Department, 3251 Riverport Lane, Manyland Heights, Mo 63043, USA, AlRREICHT ANN MAILING in the USA by Mercury Internation Heights, Mo 63043, USA, AlRREICHT ANN MAILING in the USA by Mercury Internation Heights, Mo 63043, USA, Pohone: (877) 8397126 (toll free within the USA); (-1) (314) 4478077; e-mail: JournalCustomerService. Evapartment, 3251 Riverport Lane, Manyland Heights, Mo 63043, USA, phone: (877) 8397126 (toll free within the USA); (-1) (316) 4478878 (outside the USA); fax: (-1) (316) 4478879 (outside the USA); fax: (-1) (316) 4478878 (outside the USA); fax: (-1) (316) 4478878 (outside the USA); fax: (-1) (316) 44788

JournalsCustomerservicejapariuseuseviei.com. Singapore: Elsevier Customer Service Departm 3 Killiney Road, #08-01 Winsland House I, Singapore 239519; phone: (+65) 63490222; fax: (+65) 67331510; e-mail:

BIOENERGETICS

Executive Editors: U. Brandt (Frankfurt, Germany)

P. Brzezinski (Stockholm, Sweden)

Section Editors:

P. Bernardi (Padua, Italy)

M. Brand (*Cambridge*, *UK*)

R. Cogdell (Glasgow, UK)

T.E. DeCoursey (Chicago, IL, USA)

P. Dimroth (*Zurich*, *Switzerland*)

M. Futai (*Iwate*, *Japan*)

A.P. Halestrap (*Bristol*, *UK*)

P. Heathcote (London, UK)

J. Hosler (Jackson, MS, USA)

C. Hunte (*Frankfurt-am-Main*, *Germany*)

N.-G. Larsson (Köln, Germany)

F. MacMillan (Norwich, UK)

C.C. Moser (*Philadelphia*, *PA*, *USA*)

R.K. Porter (Dublin, Ireland)

M.H. Vos (Palaiseau, France)

C.A. Wraight (*Urbana*, *IL*, *USA*)

T. Wydrzynski (Canberra, ACT, Australia)

Scientific Editors (*Elsevier, Burlington, MA, USA*):

Amy Volpert Laura Wallins Denise M. Wells (Manager)



ELSEVIER

Amsterdam – Boston – London – New York – Oxford – Paris – Philadelphia – San Diego – St. Louis

Printed by Polestar Wheatons Ltd., Exeter, United