

# VU Research Portal

## **Creatine Deficiency Syndromes: A Clinical, Molecular and Functional Approach**

Ndika, J.D.T.

2014

### **document version**

Publisher's PDF, also known as Version of record

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

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

Ndika, J. D. T. (2014). *Creatine Deficiency Syndromes: A Clinical, Molecular and Functional Approach*.

### **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)

# Creatine Deficiency Syndromes: A Clinical, Molecular and Functional Approach

*Joseph Dingbobga Tanyi Ndika*

The studies described in this thesis were carried out at the Metabolic Unit, Department of Clinical Chemistry, VU University Medical Center in Amsterdam, The Netherlands.

This research was carried out under the tutelage of the Graduate School Neurosciences Amsterdam Rotterdam (ONWAR) as part of the Brain Mechanisms in Health and Disease research program of the Neuroscience Campus Amsterdam.

This work was financed by the Neuroscience Campus Amsterdam and the Metabolic Laboratory, Department of Clinical Chemistry, VU University Medical Center in Amsterdam, The Netherlands.

The publication of this thesis was financially supported by:

- Department of Clinical Chemistry, VU University Medical Center and VU University, Amsterdam
- VU University, College van Decanen, Amsterdam

Reading committee:

prof.dr. C.B.M. Oudejans

prof.dr. T.J. de Grauw

dr. A. Thijs

dr. S. Mahmutoglu

dr. O. Braissant

---

ISBN: 978-90-5383-093-2

Cover picture: Creatine monohydrate powder. Source: [www.relentlessgains.com](http://www.relentlessgains.com)

Printed by DPC/Huisdrukkerij, VU University Medical Center, Amsterdam, The Netherlands

Copyright © Joseph Dingbobga Tanyi Ndika. All rights reserved

VRIJE UNIVERSITEIT

# Creatine Deficiency Syndromes: A Clinical, Molecular and Functional Approach

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad Doctor aan  
de Vrije Universiteit Amsterdam,  
op gezag van de rector magnificus  
prof.dr. F.A. van der Duyn Schouten,  
in het openbaar te verdedigen  
ten overstaan van de promotiecommissie  
van de Faculteit der Geneeskunde  
op donderdag 19 juni om 11.45 uur  
in de aula van de universiteit,  
De Boelelaan 1105

door

Joseph Dingbobga Tanyi Ndika  
geboren te Bamenda, Kameroen

promotoren:

prof.dr. G.S. Salomons

prof.dr.ir. C.A.J.M. Jakobs

copromotor:

dr. C. Martinez-Muñoz