UNIVERSITY OF AMSTERDAM

UvA-DARE (Digital Academic Repository)

Phase variation of type 1 fimbriae : a single cell investigation

Adiciptaningrum, A.M.

Link to publication

Citation for published version (APA):
Adiciptaningrum, A. M. (2009). Phase variation of type 1 fimbriae : a single cell investigation

General rights
It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations
If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: http://uba.uva.nl/en/contact, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

UvA-DARE is a service provided by the library of the University of Amsterdam (http://dare.uva.nl)

Download date: 01 May 2017

Phase Variation of Type 1 Fimbriae: a Single Cell Investigation

Phase Variation of Type 1 Fimbriae: a Single Cell Investigation

ACADEMISCH PROEFSCHRIFT

ter verkrijging
van de graad van doctor aan de Universiteit van Amsterdam,
op gezag van de Rector Magnificus prof.dr. D.C. van den Boom,
ten overstaan van een door het college voor promoties ingestelde commissie,
in het openbaar te verdedigen in de Agnietenkapel
op vrijdag 16 januari 2009, te 14:00 uur

door

Aileen Martinia Adiciptaningrum

geboren te Semarang, Indonesie

Promotiecommissie :

Promotor :	prof. dr. D. Frenkel
Copromotor:	dr. S.J Tans

Overige leden:	dr. T. den Blaauwen
	prof. dr. P. Borst
	prof. dr. Kuipers
	prof. dr. P.R. ten Wolde
	dr. C.L Woldringh

Faculteit der Natuurwetenschappen, Wiskunde en Informatica

The work described in this thesis was performed at the FOM Institute for Atomic and Molecular Physics (AMOLF) in Amsterdam, The Netherlands. This work is part of the research program of the 'Stichting voor Fundamenteel Onderzoek der Materie (FOM)', which is financially supported by the 'Netherlandse Organisatie voor Wetenschappelijk Onderzoek (NWO)'.

ISBN - 9789077209295

Cover design by Julien Husson and Aileen Adiciptaningrum. The image is an inverted phase contrast micrograph of a microcolony on agar surface. Printed in the Netherlands by Ponsen and Looijen BV graphical company, Wageningen.

Variability is a hallmark of biological systems.

Brehm-Stecher & Johnson
(Microbiol. Mol. Biol. Rev., 2004)