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**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

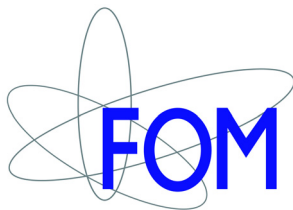
geboren te Semarang, Indonesie

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

Overige leden: dr. T. den Blaauwen
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Faculteit der Natuurwetenschappen, Wiskunde en Informatica



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Variability is a hallmark of biological systems.

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