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### Dynamics of metal adaptation in riverine chironomids.

Groenendijk, D.

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This study was conducted at the section Aquatic Ecology & Entomology, ARBE, University of Amsterdam, Kruislaan 320, 1098 SM Amsterdam, Netherlands.

# DYNAMICS OF METAL ADAPTATION IN RIVERINE CHIRONOMIDS



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## ACADEMISCH PROEFSCHRIFT



De afhandeling is toegevoegd aan de Universiteit van Amsterdam en zal openbaar zijn op gezamenlijk verzoek van de afzender en de Universiteit van Amsterdam. De afzender aanvaardt de aansprakelijkheid voor de inhoud van de afhandeling. De afzender aanvaardt de aansprakelijkheid voor de inhoud van de afhandeling. De afzender aanvaardt de aansprakelijkheid voor de inhoud van de afhandeling.



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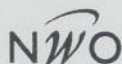
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cover: adult male and pectoral epibranchial of the fourth larval instar of the non-outing midge Chironomus riparius (photographs with the appreciated help of Simon van Meester & de Wet Boer; design by Harm van der Geest).



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*Waterschap De Dommel*

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**cover:** adult male and pecten epifaryngis of the fourth larval instar of the non-biting midge *Chironomus riparius* (photographs with the appreciated help of Simon van Mechelen & dr Piet Roos; design by Harm van der Geest).

# DYNAMICS OF METAL ADAPTATION IN RIVERINE CHIRONOMIDS

## ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor aan de Universiteit van Amsterdam  
op gezag van de Rector Magnificus prof dr JJM Franse  
ten overstaan van een door het college voor promoties ingestelde  
commissie in het openbaar te verdedigen in de Aula der Universiteit  
op donderdag 10 juni 1999, te 12.00 uur

door Dirk Groenendijk  
geboren te Mijdrecht

**promotor:** prof dr W Admiraal

**co-promotor:** dr MHS Kraak

**overige leden van de commissie:**

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