
Rodent Management – Session 2

An Africa Centre of Excellence for Innovative Rodent Pest Management and Biosensor Technology Development (ACE IRPM&BTD) in sub-Saharan Africa

Rhodes H. Makundi, Apia W. Massawe

Africa Centre of Excellence for Innovative Rodent Pest Management and Biosensor Technology Development, Sokoine University of Agriculture, MOROGORO, Tanzania, rmakundi@yahoo.com

Rodents are some of the most serious mammalian pests in sub-Saharan Africa. The economic, health and social impact of rodents is not adequately quantified, species identity is not well known and the ecology and dynamism of populations are understudied in sub-Saharan Africa. An Africa Centre of Excellence for Innovative Rodent Pest Management and Biosensor Technology Development (ACE IRPM&BTD) was established in 2016/2017, based in Tanzania. The ACEIRPM&BTD shall enhance scientific knowledge (taxonomy, ecology, zoonotic diseases, pest management, biosensor using rats), technology and innovations (STI) on rodent pest management in Africa. ACEIRPM&BTD is currently focusing on two major activities (i) Postgraduate training (16 registered PhD candidates undertaking studies in Tanzania, Uganda and Ethiopia). Ten MSc. candidates will embark on research activities in 2018/2019 (ii) Curriculum development for MSc. programmes to train potential candidates for PhD studies on rodents. About 35 PhD and 80 MSc candidates will enrol in the next five years. Studies already being undertaken include: (i) Landscape ecology and population dynamics of rodents in Afro-alpine ecosystems, Ethiopia (ii) Diversity and population dynamics of rodents and associated ectoparasites in Mt. Elgon ecosystem, Uganda. (iii) Prevalence and diversity of haemoflagelates and filarial worms in rodents and shrews in Uganda (iv) Habitat disturbance, population dynamics and community structure of rodents in forest reserves, Uganda. (v) Ectoparasites and gastrointestinal helminthes diversity in rodents and shrews in Siemens Mountains, Ethiopia. (vi) Prevalence of Leptospira in rodents, shrews and humans in Uganda (vii) Community ecology of rodents in the Selous ecosystem, Tanzania (viii) Ecology of rodents and flea ectoparasites in plague endemic foci in the Rift Valley, Tanzania. (ix) Biosensor technology development using the African giant pouched rats, *Cricetomys gambianus* (5 studies in pipeline). The ACEIRPM&BTD will support high impact research on rodents in Africa and welcomes collaboration with scientists from all over the world.

459

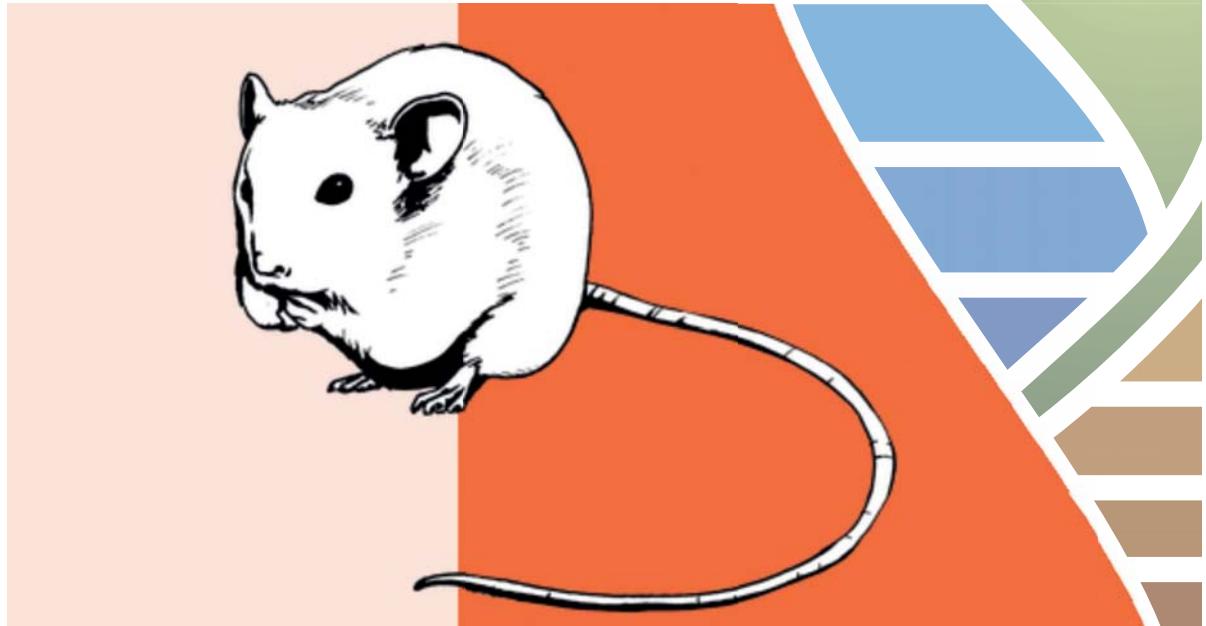
Julius - Kühn - Archiv

Jens Jacob, Jana Eccard (Editors)

6th International Conference of Rodent
Biology and Management
and
16th Rodens et Spatium

Potsdam, Germany, 3-7 September 2018

Book of Abstracts



Julius Kühn-Institut
Bundesforschungsinstitut für Kulturpflanzen

459

Julius - Kühn - Archiv

Jens Jacob, Jana Eccard (Editors)

6th International Conference of Rodent
Biology and Management
and
16th Rodens et Spatium

Potsdam, Germany, 3-7 September 2018

Book of Abstracts



Editors:

Jens Jacob¹ and Jana Eccard²

¹Julius Kuehn Institute, Federal Research Centre for Cultivated Plants,
Institute for Plant Protection in Horticulture and Forests, Vertebrate Research,
Toppheideweg 88, 48161 Münster, Germany

²University of Potsdam, Institute of Biochemistry and Biology,
Animal Ecology Group, Maulbeerallee 1,
14469 Potsdam, Germany

Local Organizing Committee:

Jana Eccard, University of Potsdam

Jens Jacob, Julius Kühn Institute, Federal Research Centre for Cultivated Plants, Münster

Daniela Reil, Julius Kühn Institute, Federal Research Centre for Cultivated Plants, Münster

Christiane Scheffler, University of Potsdam

Elke Seydewitz, University of Potsdam

Scientific organising committee:

Emil Tkadlec (Czech Republic); Frauke Ecke (Sweden); Grant Singleton (Philippines); Heikki Henttonen (Finland); Jana Eccard (Germany); Jens Jacob (Germany); Lyn Hinds (Australia); Prince Kaleme (Congo); Xavier Lambin (UK); Zhibin Zhang (China)

International Steering Committee Rodens et Spatium:

Abraham Haim (Israel); Alexey Surov (Russia); Ana Maria Benedek (Romania); Boris Krasnov (Israel);

Emil Tkadlec (Czech Republic); Éric Le Boulengé (Belgium); Farida Khammar (Algeria);

František Sedláček (Czech Republic); Gert Olsson (Sweden); Grant Singleton (Australia);

Heikki Henttonen (Finland); Jan Zima (Czech Republic); Jean-François Cosson (France); Linas Balčiauskas (Lithuania); Maria da Luz Mathias (Portugal); Molly McDonough (USA); Mustafa Sözen (Turkey);

Nigel Yoccoz (Norway); Olga Osipova (Russia); Takuya Shimada (Japan); Victor Sánchez Cordero (Mexico); Xavier Lambin (United Kingdom); Yasmina Dahmani (Algeria)

International Steering Committee**International Conference of Rodent Biology and Management:**

Andrea Byrom (New Zealand); Charley Krebs (Canada); Grant Singleton (Philippines); Jens Jacob (Germany);

Jiqi Lu (China); Lyn Hinds (Australia); Nico Avenant (South Africa); Peter Banks (Australia);

Peter Brown (Australia); Regino Cavia (Argentina); Rhodes Makundi (Tanzania); Roger Pech (New Zealand);

Steven Belmain (UK); Sudarmaji (Indonesia); Zhibin Zhang (China)

Bibliografische Information der Deutschen Nationalbibliothek

Die Deutsche Nationalbibliothek verzeichnet diese Publikation

In der Deutschen Nationalbibliografie: detaillierte bibliografische

Daten sind im Internet über <http://dnb.d-nb.de> abrufbar.

ISSN 1868-9892

ISBN 978-3-95547-059-3

DOI 10.5073/jka.2018.459.000



Alle Beiträge im Julius-Kühn-Archiv sind unter einer
Creative Commons - Namensnennung - Weitergabe unter gleichen Bedingungen -
4.0 Lizenz veröffentlicht.

Printed in Germany by Arno Brynda GmbH, Berlin.