
Poster Session 1 – Rodent Management

37 Regional rodent control approach in a countryside in Germany: fostering synergy effects between participating players

Anna Wernsmann, Odile Hecker, Marcus Mergenthaler, Marc Boelhaue

University of Applied Sciences, Soest, Germany, hecker.odile@fh-swf.de

Commensal rodents cause numerous damages on agricultural operations. Most importantly rodents are carriers of various pathogens that cause human and animal diseases. The control of neophobic rodent populations is therefore common and widespread. Different studies show the importance of pest control strategies in regard to bait station sides, development of resistances against anticoagulant rodenticides as well as collaboration of farmers and Pest Control Operators (PCOs). The aim of the current study is to enhance the effectiveness of pest control measures by applying a comprehensive control of rodent pests in a countryside in Germany. It is known from preliminary analyses, that the participation of farmers to pest control measures can be increased by start-up financing. Therefore, in the current project, the financial contribution of the North Rhine-Westphalian Animal Disease Fund (TSK) will provide incentives to comprehensive pest control measures of commensal rodents in an area of high densities of livestock farming of all kind by PCOs. Indirect monitoring of rodents at the beginning, during and after pest control measures should give information about the colonization of various structures (different livestock farming, communal enterprises and others) with rodents, and their associated pathogenic micro-organisms (viruses, bacteria, parasites). Furthermore, it is part of the project to survey the aspects of the start-up financing and intensive involvement and consulting of all parties on the willingness to participate in the project, as well as active compliance during the program by standardized interviews with farmers and PCOs. To increase long-term implementation of pest control, the intention is to identify supporting and inhibiting factors of implementation practices. Thereby, the regional approach should enhance positive effects of control measures beyond efforts on individual operations. Finally, the synergetic aspects in the guidance of farmers will lead to a decrease in rodent populations in livestock farming thereby preventing enzootic diseases in farm animals in Germany.

4 5 9

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

4 5 9

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 Kühn Institute, Federal Research Centre for Cultivated Plants,
Institute for Plant Protection in Horticulture and Forests, Vertebrate Research,
Toppeideweg 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.