
Poster Session 2 – Workshop Rodent-Borne Diseases

64 Mice in and around the city of Utrecht, The Netherlands, are carriers of *Clostridium difficile* but not ESBL-producing *Enterobacteriaceae*, *Salmonella* spp. or MRSA

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Globally, the house mouse (*Mus musculus*) is the most widely spread mammal apart from man and is a commensal, benefiting from food and shelter available from humans and their kept animals. Mice in buildings are a hygiene hazard because they harbour several zoonoses and animal diseases. The aim of this study was to gather information on specific antibiotic-resistant bacteria in house mice caught in the urban environment. Mice caught in snap traps during pest control activities in and around the city of Utrecht, the Netherlands, during May – June 2014, October – November 2015 and September – November 2016 were collected for analysis. The gut contents were analysed for ESBL/AmpC-producing *Enterobacteriaceae*, *Salmonella* spp., and *Clostridium difficile* and the oral cavities were swabbed for methicillin resistant *Staphylococcus aureus* (MRSA). In total 109 house mice and 22 wood mice (*Apodemus sylvaticus*) were examined. ESBL-producing *Enterobacteriaceae*, *Salmonella* spp. and MRSA were not found. Of n = 80 mice, 35.0% carried *Clostridium difficile* (ribotypes in descending order of frequency: 014/020, 258, 002, 005, 013, 056, 081, and two unknown ribotypes). In conclusion, mice in and around the city of Utrecht are not important carriers of ESBL/AmpC-producing *Enterobacteriaceae*, *Salmonella* spp. or MRSA but their droppings are a hazard for transmission of *Clostridium difficile* to humans and the environment.

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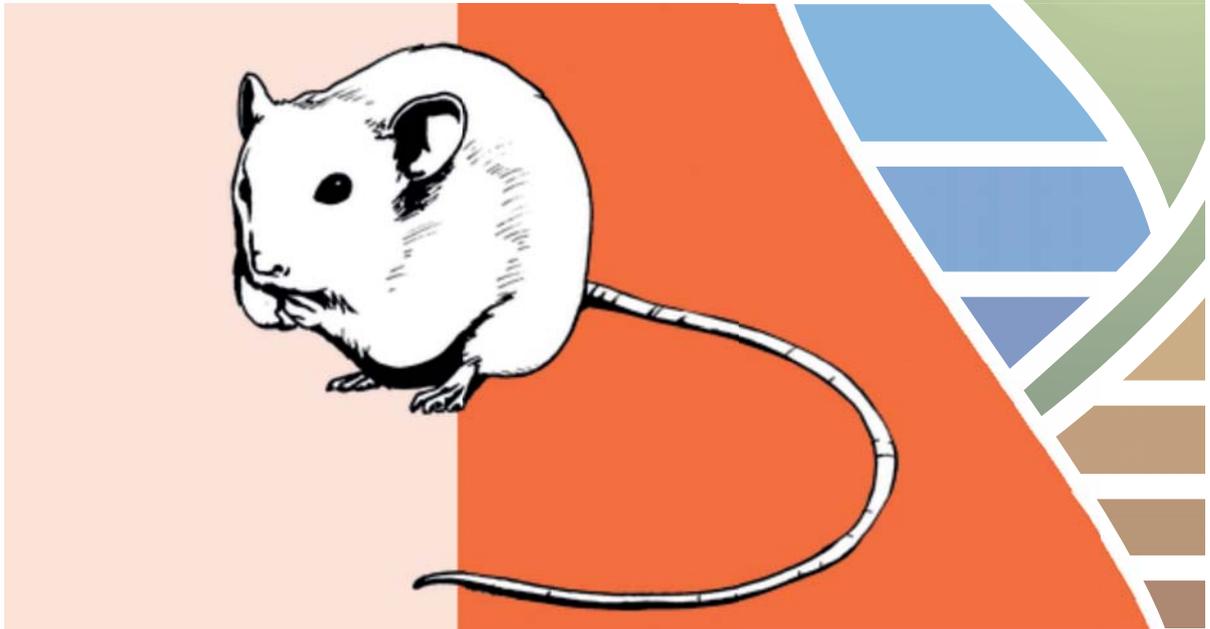
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6th International Conference of Rodent
Biology and Management
and
16th Rodens et Spatium

Potsdam, Germany, 3-7 September 2018

Book of Abstracts



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