

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

National Wildlife Research Center Repellents
Conference 1995

USDA National Wildlife Research Center Symposia

August 1995

Table of Contents

Follow this and additional works at: <http://digitalcommons.unl.edu/nwrcrepellants>



Part of the [Natural Resources Management and Policy Commons](#)

"Table of Contents" (1995). *National Wildlife Research Center Repellents Conference 1995*. 36.
<http://digitalcommons.unl.edu/nwrcrepellants/36>

This Article is brought to you for free and open access by the USDA National Wildlife Research Center Symposia at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in National Wildlife Research Center Repellents Conference 1995 by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

Repellents in Wildlife Management Symposium

Table of Contents

Overview

Chemical Signals and Repellency: Problems and Prognosis Gary K. Beauchamp	1
---	---

General

Repellents: Integrating Sensory Modalities Michael L. Avery	13
---	----

Peripheral Trigeminal Neural Processes Involved in Repellency Bruce P. Bryant	19
---	----

Behavioral Principles Governing Conditioned Food Aversions Based on Deception Michael R. Conover	29
--	----

Cinnamamide: A Nonlethal Chemical Repellent for Birds and Mammals Elaine L. Gill, Richard W. Watkins, Joanne E. Gurney, Julie D. Bishop, Chris J. Feare, Clare B. Scanlon, and David P. Cowan	43
--	----

Dilution and Detoxication Costs: Relevance to Avian Herbivore Food Selection Walter J. Jakubas, Christopher G. Guglielmo, and William H. Karasov	53
--	----

The Role of Analytical Chemistry in Repellent Research Bruce A. Kimball, Dale L. Nolte, Kevin L. Kelly, and John J. Johnston	71
--	----

Origins of Food Preference in Herbivores Frederick D. Provenza	81
--	----

The Chemistry of Plant/Animal Interactions Paul B. Reichardt	91
--	----

Recent Studies on Flavor Aversion Learning in Wildlife Damage Management Russell F. Reidinger, Jr.	101
--	-----

Reptiles

- Experiments on Chemical Control of Behavior in Brown Tree Snakes**
David Chiszar, Gordon H. Rodda, and Hobart M. Smith 121
- Responsiveness of Brown Tree Snakes to Odors**
Larry Clark 129

Mammals

- Repellency of Plant, Natural Products, and Predator Odors to Woodchucks**
N. Jay Bean, Wyatt L. Korff, and J. Russell Mason 139
- Comparative Analysis of Deer Repellents**
Abderrahim El Hani, and Michael R. Conover 147
- Behavioral Responses to Pine-Needle Oil in the Northern Pocket Gopher**
Gisela Epple, Dale L. Nolte, J. Russell Mason, Eugeny Aronov, and Shirley Wager-Pagé 157
- Effectiveness of Capsaicin as a Repellent to Birdseed Consumption by Gray Squirrels**
Christopher S. Fitzgerald, Paul D. Curtis, Milo E. Richmond, and Joseph A. Dunn 169
- Norway Rats' Communication About Foods and Feeding Sites**
Bennett G. Galef, Jr. 185
- In-Water Electroshock Techniques to Repel Aquatic Mammals and Birds**
A. Lawrence Kolz, and Richard E. Johnson 203
- Review of Synthetic Predator Odor Semiochemicals as Repellents for Wildlife Management in the Pacific Northwest Pontus**
M. F. Lindgren, Thomas P. Sullivan, and Douglas R. Crump 217
- Reducing Deer Damage to Woody and Herbaceous Plants**
James A. Lutz, and Bert T. Swanson 231
- Predator Odors as Repellents to Brushtail Possums and Rabbits**
David R. Morgan, and Anthony D. Woolhouse 241

Electronic Rodent Repellent Devices: A Review of Efficacy Test Protocols and Regulatory Actions Stephen A. Shumake	253
Repellency of Predator Urine to Woodchucks and Meadow Voles Robert K. Swihart, Mary Jane I. Mattina, and Joseph J. Pignatello	271
Repellency of Mongoose Feces and Urine to Rats (<i>Rattus</i> spp.) Mark E. Tobin, Ann E. Koehler, Robert T. Sugihara, and Michael E. Burwash	285
The Role of Sensory Cues and Feeding Context in the Mediation of Pine-Needle Oil's Repellency in Prairie Voles Shirley A. Wager-Pagé, J. Russell Mason, Eugeny Aronov, and Gisela Epple	301
Effectiveness of Varpel Rope on Norway Rats and House Mice in Laboratory and Field Conditions J. D. Wilhide, and M. D. Fletcher	313
Repellent Trials to Reduce Reforestation Damage by Pocket Gophers, Deer, and Elk Gary W. Witmer, Rodney D. Sayler, and Michael J. Pipas	321
Birds	
Grit-Use Behavior in Birds: A Review of Research to Develop Safer Granular Pesticides Louis B. Best	333
A Review of the Bird Repellent Effects of 117 Carbocyclic Compounds Larry Clark	343
Sucrose as a Feeding Deterrent for Fruit-Eating Birds Carlos Martínez del Río, Michael L. Avery, and Kristin E. Brugger	353
Avian Repellents: Options, Modes of Action, and Economic Considerations J. Russell Mason, and Larry Clark	371
A Preliminary Evaluation of Three Food Flavoring Compounds as Bird Repellents Richard E. R. Porter	393

Bird Deterrent Research and Development: Marine Oil Spills
Timothy J. Reilly 401

An Integrated Strategy to Decrease Eared Dove Damage in Sunflower Crops
Ethel N. Rodriguez, Richard L. Bruggers, Roger W. Bullard, and Robert Cook 409

Regulatory Issues, Product Development, Public Support

**Review of Regulatory-Imposed Marketing Constraints to Repellent
Development**
Judith M. Hushon 423

The Public is Attracted by the Use of Repellents
Cathy A. Liss 429