

# CURRICULUM VITAE

**Julia M. Smith, DVM, PhD**

University of Vermont, Department of Animal and Veterinary Sciences

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## PRESENT POSITION

### University of Vermont, Burlington

2023 – present      **Research Professor, Department of Animal and Veterinary Sciences**

- ❖ Improving and protecting food animal health through research and outreach on animal health and biosecurity (60%).
  - ❖ Guiding students to think more critically about animal health and welfare, advising students, and mentoring undergraduate researchers (40%).
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## EDUCATION

1996 – 2002      **Cornell University Graduate School**, Field of Animal Science  
**PhD** Major: Animal Nutrition; Minor: Nutritional Biochemistry, August 2002

1990 – 1994      **DVM, Cornell University College of Veterinary Medicine**, May 1994

1986 – 1990      **Cornell University College of Agriculture and Life Sciences**, *Ithaca, NY*  
**BS** Biological Sciences, May 1990

**Junior Year Abroad, University of Reading**, *Reading, England*, 1988 – 89  
Course: Physiology, Biochemistry, and Nutrition of Farm Animals Part II

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## PROFESSIONAL EXPERIENCES

2016 – 2023      **Research Associate Professor, Department of Animal and Veterinary Sciences, University of Vermont (UVM)**

Improving and protecting food animal health through research and outreach on animal health and biosecurity (60%).

Guiding students to think more critically about animal health and welfare, advising students, and mentoring undergraduate researchers (40%).

2014 – 2016      **Extension Associate Professor, Department of Animal Science, UVM**

Planning, delivering, and evaluating programs on calf nutrition and management, biosecurity, and agricultural emergency preparedness (50% FTE).

Guiding students to think more critically about animal welfare and advising students (30% FTE).

2013 – 2014      **Extension Associate Professor, Department of Animal Science, UVM**

Improving and protecting dairy herd health through research and outreach on nutrition and biosecurity.

2002 – 2013      **Extension Assistant Professor, Department of Animal Science, UVM**

Improving and protecting dairy herd health through research and outreach on nutrition and biosecurity.

1994 – 1996 **Associate Veterinarian**  
**North Country Veterinary Services, Pulaski, NY**  
 Providing veterinary services to pets and agricultural animals in rural Oswego County as part of a multi-doctor practice.

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## HONORS AND AWARDS

2016 National Association of County Agricultural Agents (NACAA) Agriculture Awareness and Appreciation Award State Winner  
 ([https://www.nacaa.com/awards/apps/display\\_award.php?id=8997-79](https://www.nacaa.com/awards/apps/display_award.php?id=8997-79))

2015 John C. Finley Memorial Award, Vermont Dairy Industry Association

2013 NACAA Distinguished Service Award

2013 NACAA Communication Award Regional Winner, for publication

2007 Peggy R. Williams Emerging Professional Award, Vermont Women in Higher Education

2007 NACAA Communication Award State Winner, for fact sheet

2007 Professional Dairy Heifer Growers Association, national conference regional host

2006 NACAA Achievement Award

2005 NACAA Communication Award National Winner, for videotape

2004 NACAA Communication Award Regional Finalist, for learning module, personal column, and videotape

2001 Maynard Award, Cornell University Department of Animal Science

1998 – 1999 Purina Mills Dairy Research Fellowship

1990 Gamma Sigma Delta, Honor Society of Agriculture, inducted

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## CONTINUING EDUCATION AND PROFESSIONAL CERTIFICATIONS

2022 **Modeling Food Safety and Animal Health Risks Using R**, August 6-7, 2022

2017 **Food Armor Phase II – Becoming an Accredited Veterinarian**, completed July 7, 2017

2017 **Agricultural Animal Bioethics Teaching Workshop**, Indianapolis, IN, June 4-6 (12 h)

2015 **Teaching and Learning in the Animal Sciences: Changing the Animal Science Teaching and Learning Paradigm - An Interactive Workshop on How to Use Case Study Teaching to Foster Critical Thinking and Classroom Discussion**, ADSA-ASAS Joint Annual Meetings (8 h)

2012 **Recertification Module for Johnes's Certified Veterinarians**, University of Wisconsin School of Veterinary Medicine

2011 **Professional Animal Scientist**, American Registry of Professional Animal Scientists, Dairy Cattle Specialization

2011 **Strengthening Community Agrosecurity Planning**, certified trainer (16 h)

2011 Emergency Management Institute IS-00811, **Emergency Support Function (ESF) 11: Agriculture and Natural Resources**

2011 Emergency Management Institute IS-00703.1, **NIMS Resource Management**

2011 Incident Command System (ICS) 300, **Intermediate ICS for Expanding Incidents** (24 h)

2011 Emergency Management Institute: IS-00200.b, **ICS for Single Resources and Initial Action Incidents (ICS-200)**

2010 Incident Command System, **Basic Public Information Officer (PIO) Training** (2 h)

2010 Emergency Management Institute IS-00120.a, **Introduction to Exercises**

2007	<b>Agriculture &amp; Food Vulnerability Assessment Training</b> (16 h)
2007	Incident Command System (ICS)-402, <b>ICS Overview for Executives/Senior Officials</b> (2 h)
2006	Emergency Management Institute IS-00111, <b>Livestock in Disasters</b>
2006	<b>Disease Risk Management Tools for Beef and Dairy Producers</b> , certified trainer
2006	<b>Foreign Animal Disease Response Emergency Responder Training</b> , certified master trainer

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## TEACHING

### Undergraduate level courses taught or developed

ASCI 1000 Introductory Animal Science (Fall 2023)

ASCI 007 ABCs of Biosecurity (Fall 2022, Fall 2020)

ASCI 297C Calf Biology and Management (Fall 2021, Fall 2019)

ASCI 122 Animals in Society/Animal Welfare (last taught in Spring 2022)

I also guest lecture in diverse undergraduate and graduate courses.

### Conference and workshop coordination

I have regularly coordinated events and opportunities for the exchange of information among stakeholders. When I held an Extension appointment, I coordinated or facilitated at least one workshop per year for farmers, allied industry, or regulatory personnel on dairy management, biosecurity, or emergency management. Current projects involve annual stakeholder meetings and emergency preparedness exercises.

➤ **Secure Food Supply New England Style FAD 101 Webinar (2021)**

Planned and presented one-hour webinar for New England veterinarians on foreign animal disease (FAD) recognition and response. Successfully applied to offer registry of approved continuing education (RACE) credit for veterinarians. Available at: <https://www.secure-agriculture.org/foreign-animal-disease-webinar-veterinarians/>

➤ **Secure Food Supply New England Style Permitting Workshop (2021)**

Planned two-part virtual workshop for New England state animal health officials to review permitting requirements to enable movement of animals or animal products within a disease control area.

➤ **2020 ASAS-CSAS-WSASAS Virtual Annual Meeting and Trade Show: Animal Health Symposium (2020)**

Proposed and chaired research symposium featuring four presentations by ADBCAP project team members on July 21. The session recordings were available to members of the American Society of Animal Science. (Agenda available at <https://www.eventscribe.com/2020/ASASAnnual/agenda.asp?startdate=7/21/2020&enddate=7/21/2020&BCFO=M&pfp=BrowseSession&tn=&cpf2=&cus2=&pta=>)

➤ **Community Conversations Biosecurity Meeting Series (2020)**

Coordinated and produced a virtual meeting series held over Zoom. Two sessions were on on-farm mortality composting, two on cross-pollinating biosecurity, four on youth biosecurity education, and two more on biosecurity with One Health implications. Details are provided

under “Presentations” below. All recordings can be accessed on the Healthy Farms Healthy Agriculture YouTube channel ([https://www.youtube.com/channel/UC16U\\_rL9dlU4y4AQ-WXIXCQ](https://www.youtube.com/channel/UC16U_rL9dlU4y4AQ-WXIXCQ)).

- ***ADBCAP Symposium: Innovation and Collaboration for Agricultural Biosecurity (2019)***

Planned project symposium and agricultural biosecurity community of practice workshop for May 15 – 16 in College Park, Maryland. Symposium presentations were streamed and recorded. See [agbiosecurityproject.org](http://agbiosecurityproject.org).
- ***Bovine Viral Diarrhea Virus Webinars (2016)***

Hosted two educational webinars featuring Dr. Julia Ridpath discussing BVD1, BVD2, and HoBi-like viruses. These were targeted for practicing and extension veterinarians. Recordings are available on the American Association of Extension Veterinarians website: [extvets.org](http://extvets.org).
- ***Vermont Breakfast on the Farm (2016)***

Coordinated educational stations and the evaluation of the second Vermont Breakfast on the Farm event hosted by the Vander Weys of Nea Tocht Dairy Farm (over 900 attendees) and Rowells of Green Mountain Dairy Farm (over 1000 attendees).
- ***Vermont Breakfast on the Farm (2015)***

Coordinated 8 educational stations and the evaluation of the first Vermont Breakfast on the Farm event hosted by the Vander Weys of Nea Tocht Dairy Farm attended by 500 people.
- ***Calf Management Training (2015)***

Coordinated two-day training in two locations in Vermont in collaboration with Cornell Pro-Dairy and Cornell Cooperative Extension. The facilitated webinars reached 55 dairy producers.
- ***Introductory Dairy Stockmanship (2015)***

Coordinated 5 one-day trainings featuring Dr. Don Höglund attended by 40 dairy producers, students and veterinarians in Vermont and New York in collaboration with Caring Dairy and Vermont Tech.
- ***Community Emergency Preparedness Webinar Series (2013)***

Presented 4-week mid-day webinar series on agricultural emergency preparedness topics attended by Extension personnel, regional planners, and local emergency managers.
- ***Johne’s Disease (2012)***

Coordinated presentations featuring Dr. Franklyn Garry attended by 100 dairy producers, students and veterinarians at 4 locations in Vermont.
- ***Vermont Dairy Industry Association Fall Conference (2009-2014)***

Chaired planning committee (09-10), invited speakers, moderated program at annual fall conference attended by about 40 dairy students, farmers, industry and regulatory personnel. Presented at 2009 meeting.
- ***Strengthening Community Agrosecurity Planning, Train-the-Trainer (2011)***

Planned and coordinated Vermont pilot of S-CAP training attended by about 25 Extension, industry and government personnel. Presented 1 module.
- ***Prepare to Survive a Bio-Disaster (2008-2009)***

Planned, coordinated, facilitated and co-presented at 3-session grant-funded workshop series held in 3 locations in Vermont attended by about 100 farmers, allied industry professionals, and responders.
- ***Agriculture and Food Vulnerability Assessment Training (2007)***

Coordinated and facilitated Vermont session of national training course attended by 25 industry and regulatory agency personnel.
- ***National Calf and Heifer Conference (2007)***

Planned, coordinated, and facilitated educational tours and workshops attended by over 100 farmers and allied industry professionals.

➤ **Dairy Management Workshops (2003-2006)**

Each year I developed and taught 2-3 workshops (1-3 hours) for dairy farmers and allied industry personnel. Topics included calf health and nutrition, biosecurity, and other dairy herd health issues.

## MENTORSHIP

I am a faculty member of both the Graduate College and the Food Systems graduate program of the University of Vermont.

### Graduate student supervision

1. Osuagwu, Johnbosco. Ph.D. program beginning Fall 2022.
2. Beaudry, Madeline. M.S. program beginning Fall 2022.
3. Hull, Whitney. M.S. employee degree program in progress since Spring 2022.
4. Reddy, Jag Jeevan Patlola. 2007. Immune response of young calves to vaccination at two weeks vs. six weeks of age. M.S. Thesis, University of Vermont, Burlington.
5. Berthiaume, Devin R. 2006. Growth and health of Holstein heifer calves fed conventional milk replacer at a fixed volume or high protein milk replacer at increasing levels. M.S. Thesis, University of Vermont, Burlington.

### Graduate committee membership

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|-------------------------------|--|-------------|
| 1. Chelsey Patch              | M.S. Animal Biosciences  | 2022 –      |
| 2. Ekaterina Lopez-Bondarchuk | M.S. Animal Biosciences  | 2022 –      |
| 3. Richmond Baye              | Ph.D. Sustainable Development Policy, Economics and Governance | 2022 –      |
| 4. Caitlin E. Jeffrey         | Ph.D. Animal Biosciences                                       | 2019 –      |
| 5. Cari Reynolds              | Ph.D. Animal Biosciences                                       | 2020 –      |
| 6. Eileen Kristiansen (chair) | Ph.D. Educational Leadership and Policy Studies                | 2021 – 2022 |
| 7. Deborah Krug (chair)       | M.S. Community Development and Applied Economics               | 2013 – 2015 |
| 8. Sukumar Kandasamy          | Ph.D. Animal Nutrition and Food Sciences                       | 2007 – 2011 |

### External thesis examiner or reader

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|------------------|--------------------------------|------|
| 1. Jake Fountain | Ph.D. Charles Sturt University | 2023 |
| 2. Nick Rose     | M.S. Food Systems              | 2020 |
| 3. Amy Rogers    | MPH Yale University            | 2007 |
- Thesis: Importance of established policies in the control of foot-and-mouth disease

### Public health practice experience mentor

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|-----------------|-----------------------------------|------|
| 1. Massle Thach | DVM MPH student, Tufts University | 2023 |
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### Project intern mentor

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| 1. Massle Thach | DVM MPH student, Tufts University | 2023 |
| 2. Adrian Dixon | DVM student, Purdue University    | 2023 |

### Honor's student supervision

1. Gailey, Max. 2023. The psychophysical response to music in canines: An analysis of music's capability of improving the life of dogs. [Undergraduate honors thesis, University of Vermont]. (Committee chair)
2. O'Keefe, Aislinn. 2021. Biosecurity risk messaging interpretation by Spanish and English speakers. [Undergraduate honors thesis, University of Vermont]. (co-advisor)
3. Dharmasena, Vidharshi. 2020. Using blood proteomics to detect the health and wellbeing of the young calf in relation to bovine respiratory disease [Undergraduate honors thesis, University of Vermont]. ScholarWorks.
4. Cosentino, Mia. 2015. Survey of calf management practices on Vermont dairy farms [Distinguished undergraduate research thesis, University of Vermont].
5. D'Amore, Stephanie. 2011. The use of a disease simulation model to test strategies for the prevention and management of foot and mouth disease on Vermont dairy farms [Undergraduate honors thesis, University of Vermont].
6. Donoghue, Beth. 2007. Immunoglobulin G levels in calves as an indicator of failure of passive transfer [Justin Morrill Honor's Project, University of Vermont].
7. Knauer, Whitney. 2006. The effects of lactoferrin on the appearance of immunoglobulins in the peripheral blood of Holstein calves [Undergraduate honors thesis, University of Vermont].
8. Scillieri, Jessica. 2005. The effect of lactoferrin on intestinal development of calves [Undergraduate honors thesis, University of Vermont].
9. Brunst, Elizabeth. 2004. A study of current colostrum management practices on farms in Vermont and the effects of handling on microbial growth [Undergraduate honors report, University of Vermont].

### Undergraduate research student supervision

1. Julie Potash	B.S. Animal Science	Survey evaluation	5/19 – 10/19
2. Alyssa Knight	B.S. Animal Science	Survey evaluation	4/16 – 5/17
3. Stephanie Bronsther	B.S. Biology	Calf health	1/15 – 5/15
4. Ben Finnell	Post-bac pre-vet	Biosecurity survey tool	1/14 – 7/14
5. Nicholas Takatis	B.S. Animal Science	Database entries	1/14 – 5/14
6. Devon Lindsey	B.S. Biological Science	Disease simulation	11/13 – 7/17
7. Sam Saltau	B.S. Animal Science	Biosecurity education	1/13 – 5/13
8. Rachel Rogoff	B.S. Animal Science	Disease spread research	8/11 – 5/12
9. Matt Sammons	B.S. Animal Science	Survey summary	6/10 – 12/10
10. Megan Foy	B.S. Animal Science	Disease spread research	1/08 – 5/09

### Undergraduate and post-bac internship supervision

1. Abigail Brown	B.S. Animal Science	Biosecurity map tutorial	5/23 – 8/23
2. Keeley Parish	B.S. Animal Science	Biosecurity videos	6/23 – 8/23
3. Abigail Brown	B.S. Animal Science	Biosecurity map tutorial	5/22 – 8/22
4. Keisha Bedor	B.S. Animal Science	Biosecurity plan builder	1/21 – 3/21
5. Antonia DiPreta	B.S. Animal Science	Biosecurity plan builder	1/21 – 3/21
6. Chelsey Patch	B.S. Animal Science	Biosecurity plan builder	1/21 – 3/21
7. Kathryn (Katie) Loberti	B.S. Animal Science	Biosecurity blog	6/20 – 8/20
8. Kortnie Wheaton	B.S. Animal Science	Biosecurity blog	6/20 – 8/20

9. Sam Shields	B.S. Animal Science	Biosecurity blog	5/19 – 8/19
10. Margaret (Meg) Stevens	B.S. Animal Science	Biosecurity blog	5/19 – 8/19
11. Lauren Austin	B.S. Animal Science	Veterinary survey	1/19 – 5/19
12. Aidan Sullivan	B.S. Animal Science	Database queries	5/16 – 8/16
13. Caitlin Danehy	B.S. Biology	Biosecurity lit review	5/15 – 8/16
14. Megan Stuart	B.S. Animal Science	Database construction	2/15 – 5/16
15. Artemis Sapountzi	Post-bac pre-vet	Biosecurity research	1/15 – 8/16
16. Stephanie Bronsther	B.S. Biology	Calf health lit review	5/14 – 12/14
17. Nina Jenson	B.S. Sustainable Landscape Agriculture	GIS mapping	1/14 – 5/14
18. Noelle Schariest	B.S. Animal Science	Disease simulation	7/12 – 12/12
19. Molly Mills	B.S. Animal Science	Biosecurity research	5/12 – 8/12
20. Lauren Powell	B.S. Animal Science	Biosecurity research	5/12 – 8/12
21. Hannah Carbonneau	B.S. Animal Science	Biosecurity report	7/11 – 9/11
22. Lisa Weglarz	B.S. Animal Science	Biosecurity content	5/11 – 9/11
23. Margaret Quaassdorff	B.S. Animal Science	Biosecurity research	5/11 – 8/11
24. Rebecca Standish	B.S. Animal Science	Biosecurity research	5/11 – 9/11
25. Angela Snow	B.S. Animal Science	eXtension content	5/11 – 8/11
26. Rebecca Calder	B.S. Animal Science	Johne's education	1/10 – 5/11
27. David Ainley	B.S. Geology	GIS mapping	1/11 – 7/11
28. Mehgan Patterson	B.S. Animal Science	Database entries	8/09 – 12/10
29. Nirali Shah	B.S. Animal Science	Colostrum report	12/07 – 1/08
30. Jen Ather	B.S. Animal Science	Biosecurity content	5/03 – 8/03
31. Mark Murray	Post-bac pre-vet	Biosecurity content	5/03 – 8/03
32. Leah Yandow	B.S. Animal Science	Biosecurity content	5/03 – 8/03

## UNDERGRADUATE ADVISING SUMMARY

Student evaluations of advising (1 is poor; 5 is excellent)

Academic Year	Total advisees	Advisor is accessible	Advisor shows concern and respect	Advisor is knowledgeable of major's degree requirements	Overall rating of academic advising	Calculated average of evaluation scores
22 – 23	12	5.9	5.0	4.9	4.8	NA
21 – 22	20	4.5	4.3	4.4	4.3	4.3
20 – 21	25	NA	NA	NA	NA	NA
19 – 20	35	4.6	4.4	4.6	3.8	4.2
18 – 19	29	4.3	4.4	4.4	3.4	4.1
17 – 18	31	4.4	4.4	4.5	3.9	4.3
16 – 17	17	3.3	3.3	3.8	2.8	3.4
15 – 16	15	4.0	4.7	4.3	4.0	4.2
14 – 15	14	NA	NA	NA	NA	NA

NA: not available or no evaluations submitted

**GRANTS AWARDED****Current**

- \$207,000 Illustrating Answers to Hard Questions on FAD Preparedness (PD)**  
 Period: June 1, 2023 – May 31, 2025  
 Funder: USDA APHIS Veterinary Services National Animal Disease Preparedness and Response Program  
 Grant: Cooperative Agreement  
 Role: Led development of proposal  
 Outreach project creating a set of animated videos to answer challenging questions about foreign animal disease response
- \$23,694 Enhancing Resilience of the New England Milkshed by Engaging Producers in Secure Milk Supply Planning (PD)**  
 January 1, 2023 – December 31, 2023  
 George Walker Milk Research Fund  
 Wrote the proposal  
 Outreach project developing enhanced biosecurity plans for dairy farms
- \$42,000 Premises Mapping Application for Improved Secure Pork (PD)**  
 Period: July 2022 – December 2022  
 Funder: National Pork Board  
 Grant: Research Services Agreement  
 Project type: Applied  
 Role: Led submission of proposal and co-lead project  
 Summary: Develop mapping app consistent with Secure Pork Supply biosecurity plans
- \$44,999 Assessing Opportunities to Promote Animal Health and Dairy Farm Sustainability (PI)**  
 Period: October 2022 – September 2027  
 Funder: USDA NIFA Capacity (Hatch) (peer-reviewed)  
 Grant: Development  
 Project type: Applied research  
 Role: Led development of proposal and serve as principal investigator  
 Summary: Create a novel biosecurity vulnerability index and investigate motivations to control Johne's disease and use antibiotics more judiciously.
- \$1 million A systems approach to securing the New England milk supply in the event of a foot-and-mouth disease outbreak (PD) (20% of 12-month FTE)**  
 Period: April 2022 – March 2025  
 Funder: USDA NIFA AFRI 007692  
 Grant: Tactical Sciences (now Agricultural Biosecurity) FASE Strengthening Standard  
 Project type: Integrated applied research and outreach project on readiness for FMD  
 Role: Led development of proposal and serve as project director  
 Summary: Evaluate implications of foot-and-mouth disease biosecurity policy responses with simulation model of New England regional milk movements.
- \$2,477,020 Predicting livestock disease transmission dynamics under alternate biosecurity risk management interventions and behavioral responses of livestock producers (Co-PI) (8.25% of 12-month FTE)**  
 Period: September 2021 – August 2026  
 Funder: NSF/USDA  
 Grant: Ecology and Evolution of Infectious Diseases  
 Project type: Research project modeling disease transmission dynamics  
 Role: Assisted development of proposal and serve as co-PI

Summary: Understand and predict the risk of transmission of foreign animal diseases such as African swine fever and foot-and-mouth disease among US livestock herds.

\$263,617 **2020 NADPRP Secure Food Supply, New England style (PD)** (20% of 12-month FTE)  
 Period: April 2021 – March 2023; no-cost extension through September 2023  
 Funder: USDA APHIS VS  
 Grant: National Animal Disease Preparedness and Response Program cooperative agreement  
 Project type: Multi-state integrated research and outreach project on livestock emergency biosecurity  
 Role: Led development of proposal and serve as project director  
 Summary: Engage with public and private veterinarians and producers regarding a Secure Food Supply plan appropriate for New England and a web-based application to support readiness at the farm level.

**Previous**

\$7.4 million **A human behavioral approach to reducing the impact of livestock pest or disease incursions of socio-economic importance (aka ADBCAP)** (PD) (15-20% of 12-month FTE)  
 April 2015 – March 2020, no-cost extension through March 2021  
 USDA NIFA AFRI 004417  
 Five-year Coordinated Agricultural Program grant, funded through continuation mechanism; informally known as Animal Disease Biosecurity Coordinated Agricultural Project (ADBCAP)  
 Integrated applied research and outreach project on livestock biosecurity  
 Served as the project director and led the development of the proposal  
 The project brought together experts from ten academic institutions and livestock industry stakeholders with the common goal of understanding the human dimension of animal disease dynamics, exploring human behavior through the lenses of communications, economics, and decision-making. The project emphasized data collection using surveys and experimental games and incorporated data into computer simulation models, educational products and communication strategies.

\$120,000 **Control of *Haemonchus contortus* parasitism in northern New England sheep and goats through manipulation of its winter ecology and adaptation to climate change** (co-PI)  
 July 2014 – June 2016  
 Northern New England Cooperative Research Program  
 Served as Vermont coordinator; assisted with identifying cooperating herds  
 Applied research project to characterize winter-hardiness of the internal parasite *Haemonchus* and New England-appropriate strategies for control on small ruminant farms

\$45,000 **Relationship between Feeding and Developmental Regulation of the Neonatal Calf** (co-PI)  
 October 2013 – September 2016, terminated August 2014 with change in appointment  
 Hatch  
 Research project on responses to early nutrition in the dairy calf

\$10,000 **Vermont Cattle Health Improvement Program** (co-PI)  
 January 2011 – December 2011, extended through December 2012  
 George Walker Milk Fund; Reviewed by Fund trustees

- Served as primary author of the proposal and led the project with the assistant state veterinarian.  
Outreach project on Johne's disease management and herd status certification
- \$470,894 **Costs and Challenges Associated with Developing and Implementing a Community-Wide Biosecurity Plan (co-PI)**  
March 2010 – February 2014  
USDA NIFA (CSREES) AFRI Program #92620  
Served as primary author of the proposal and led the project with Bob Parsons (CDAE) and Ellen Rowe (UVM Extension).  
Integrated research and outreach project on dairy farm emergency biosecurity
- \$27,775 **Vermont Cattle Health Improvement Program (co-PI)**  
January 2010 – December 2010, extended through August 31, 2011  
George Walker Milk Fund; Reviewed by Fund trustees  
Served as primary author of the proposal and led the project with the assistant state veterinarian.  
Outreach project on Johne's disease management and herd status certification
- \$18,383 **Development of Biosecurity Materials for eXtension Website (PI)**  
April 2010 – August 2010, extended through November 2012  
USDA NIFA  
Subaward of EDEN Homeland Security Initiative V: Strengthening EDEN's Role in Homeland Security, Food and Ag Defense, and All-Hazard Education  
Coordinated a national project team and led a team of summer interns to develop, review, and improve eXtension content.  
Outreach project to promote biosecurity through national eXtension platform
- \$25,000 **Evaluating Resilience of Vermont's Dairy Industry through Simulation Modeling (PI)**  
October 2009 – September 2011, extended through September 2012  
Hatch  
Served as primary author of the proposal; conducted targeted mail survey of Vermont dairy farmers; developed regionally appropriate movement rate parameters; analyzed and presented results.  
Research project on dairy biosecurity and risk of disease spread
- \$33,415 **Regional Dairy Quality Management Alliance (RDQMA) Pilot Herd Vermont (co-PI)**  
October 2009 – September 2010  
USDA-ARS, renewal; Internal ARS review  
Led VT team with state veterinarian; made quarterly farm visits to collect samples; assisted with manuscript preparation.  
Research project on presence and persistence of *Salmonella*, *E. coli*, *Listeria*, and *Mycobacterium avium* subsp. *paratuberculosis* (Johne's disease) on dairy farms
- \$34,996 **Preparing Dairy Producers to Survive a Bio-Disaster (PI)**  
July 2008 – June 2009  
Northeast Center for Risk Management Education  
Served as primary author of the proposal and led the project.  
Outreach project on emergency biosecurity
- \$10,000 **Robustness of Agricultural Freight Transportation Networks Serving Vermont (PI)**  
October 2007 – September 2009

	Hatch Led the collection of Vermont milk route data and prepared data for analysis. Research project on transportation issues associated with milk collection
\$0	<b>Ready Ag – Disaster and Defense Preparedness for Production Agriculture</b> (cooperator) October 2007 – September 2008 CSREES Special Needs Wrote a letter of support and assisted with development of dairy-specific materials on dairy security, biosecurity, and disaster preparedness. Outreach project on farm security and disaster preparedness
\$50,000	<b>Agricultural Freight: Network Access and Issues (PI)</b> April 2007 – June 2010 National University Transportation Center Subaward of US DOT DTRT06-G-0018; Reviewed by Transportation Research Center advisors Collaborated on analysis of milk flows using network robustness index and presented abstract. Research project on network analysis of milk flows
\$63,000	<b>Management Systems to Improve the Economic and Environmental Sustainability of Dairy Enterprises (PI)</b> October 2004 – September 2007 Hatch Member of multi-state research project NC-1119 Mentored 2 graduate students on project. Research project on early calf nutrition and immune response
\$152,994	<b>Regional Dairy Quality Management Alliance (RDQMA) Pilot Herd Vermont (co-PI)</b> September 30, 2004 – September 29, 2009 USDA-ARS (each amendment not listed separately); Internal ARS review Led VT team with state veterinarian; made quarterly farm visits to collect samples; assisted with manuscript preparation. Research project on presence and persistence of <i>Salmonella</i> , <i>E. coli</i> , <i>Listeria</i> , and <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> (Johne's disease) on dairy farms
\$1,000	<b>2007 Calf Management Workshop—Caledonia</b> Northeast Center for Risk Management Education, County-Regional grant program Coordinated and conducted calf management workshop. Outreach project on calf management
\$750	<b>2006 Calf Management Workshop—Franklin</b> Northeast Center for Risk Management Education, County-Regional grant program Coordinated and conducted calf management workshop. Outreach project on calf management
\$750	<b>2006 Benchmarking Workshop—Addison</b> Northeast Center for Risk Management Education, County-Regional grant program Coordinated dairy financial management workshop. Outreach project on financial risk management
\$2,000	<b>2005 Calf Management Workshop—Chittenden and Franklin</b> Northeast Center for Risk Management Education, County-Regional grant program (\$1,000 each county)

	Coordinated and conducted calf management workshop. Outreach project on calf management
\$10,000	<b>Management Systems to Improve the Economic and Environmental Sustainability of Dairy Enterprise (PI)</b> July 2003 – June 2004 Hatch start-up Member of multi-state research project NC-1119 Mentored 2 undergraduate honor's projects. Research project on early calf nutrition
\$87,000	<b>Animal Disease Biosecurity Demonstration and Outreach Program in Vermont (PI)</b> September 2002 – September 2003 USDA-APHIS Special Cooperative Agreement Led project team in developing binder and website of resources, and video. Outreach project on preventing spread of disease among and on farms
Pending	Coming soon!

## PUBLICATIONS

### Peer-reviewed journal articles

Impact factor = IF

\*Papers marked with an asterisk resulted from collaborative efforts during the Animal Disease Biosecurity Coordinated Agricultural Project.

\*\*Papers marked with a double asterisk represent the most significant contributions.

1. Langle-Chimal, O. D., Merrill, S. C., Clark, E. M., Bucini, G., Liu, T.-L., Shrum, T. R., Koliba, C., Zia, A., Smith, J. M., & Cheney, N. (Submitted June 2023). Temporal evolution of risk behavior in a disease spread simulation. *Nature Human Behavior*.
2. Smith, J. M., Saegerman, C., & Vaillancourt, J.-P. (2023). Editorial: Promoting compliance with biosecurity in animal production. *Frontiers in Veterinary Science*. <https://doi.org/10.3389/fvets.2023.1215433>  
At the time this editorial by the topic editors was published, this research topic had received over 10,000 views, and over 1200 papers had been downloaded.
3. \*Bucini, G., Clark, E. M., Merrill, S. C., Langle-Chimal, O., Zia, A., Koliba, C., Cheney, N., Wiltshire, S., Trinity, L., & **Smith, J. M.** (2023). Connecting livestock disease dynamics to human learning and biosecurity decisions. *Frontiers in Veterinary Science*. <https://doi.org/10.3389/fvets.2022.1067364>
4. \*Liu, T.-L., Merrill, S. C., O'Keefe, A., Clark, E. M., Langle-Chimal, O. D., Trinity, L., Shrum, T., Koliba, C., Zia, A., Sellnow, T. L., Sellnow, D. D., & **Smith, J. M.** (2022). Effects of message delivery on cross-cultural biosecurity compliance: insights from experimental simulations. *Frontiers in Veterinary Science*. <https://doi.org/10.3389/fvets.2022.962989>
5. Zia, A., Delgado, A. H., Bucini, G., Merrill, S. C., Koliba, C., Del Rossi, G., Norby, B., & **Smith, J. M.** (Submitted July 2021; In review). Testing an extended theory of planned behavior to explain cattle producers' intent to comply with foot-and-mouth disease control measures. *PLoS One*.

6. \*Koliba, C., Merrill, S. C., Zia, A., Bucini, G., Clark, E. M., Shrum, T., Wiltshire, S. W., & **Smith, J. M.** (2022). Assessing strategic, tactical, and operational decision-making and risk in a livestock production chain through experimental simulation platforms. *Frontiers in Veterinary Science*, 9. <https://doi.org/10.3389/fvets.2022.962788>
7. \*Clark, E. M., Merrill, S. C., Trinity, L., Liu, T.-L., O'Keefe, A., Shrum, T., Bucini, G., Cheney, N., Langle-Chimal, O. D., Koliba, C., Zia, A., & **Smith, J. M.** (2022). Comparing behavioral risk assessment strategies for quantifying biosecurity compliance to mitigate animal disease spread. *Frontiers in Veterinary Science*, 9. <https://doi.org/10.3389/fvets.2022.962989>
8. \*Higgins, L., & **Smith, J. M.** (2022). Documenting development of interdisciplinary collaboration among researchers by visualizing connections. *Research Evaluation*, 31(1), 159-172. <https://doi.org/10.1093/reseval/rvab039> (IF: 2.80)
9. \*Merrill, S. C., Trinity, L., Clark, E. M., Shrum, T. R., Koliba, C. J., Zia, A., Bucini, G., Sellnow, T. L., Sellnow, D. D., & **Smith, J. M.** (2021). Message delivery strategy influences willingness to comply with biosecurity. *Frontiers in Veterinary Science*, 8. <https://doi.org/10.3389/fvets.2021.667265> (IF: 3.47)
10. \*Clark, E. M., Merrill, S. C., Trinity, L., Bucini, G., Cheney, N., Langle-Chimal, O., Shrum, T., Koliba, C., Zia, A., & **Smith, J. M.** (2021). Emulating agricultural disease management: Comparing risk preferences between industry professionals and online participants using experimental gaming simulations and paired lottery choice surveys. *Frontiers in Veterinary Science*, 7. <https://doi.org/10.3389/fvets.2020.556668> (IF: 3.47)
11. \*Trinity, L., Merrill, S. C., Clark, E. M., Koliba, C. J., Zia, A., Bucini, G., & **Smith, J. M.** (2020). Effects of social cues on biosecurity compliance in livestock facilities: evidence from experimental simulations. *Frontiers in Veterinary Science*, 7. <https://doi.org/10.3389/fvets.2020.00130> (IF: 3.41)
12. \*\* \*Clark, E. M., Merrill, S. C., Trinity, L., Bucini, G., Cheney, N., Langle-Chimal, O., Shrum, T., Koliba, C., Zia, A., & **Smith, J. M.** (2020). Using experimental gaming simulations to elicit risk mitigation behavioral strategies for agricultural disease management. *PLoS One*, 15(3), e0228983. <https://doi.org/10.1371/journal.pone.0228983>  
This is the second paper based on results of digital experiments in the context of livestock biosecurity. The clustering of risk mitigation strategies was explored in the context of varying the availability of information about disease incidence and biosecurity implementation in the system and was compared between non-agricultural and agricultural research subjects. We found no difference in clustering between research subjects of different backgrounds, increasing our confidence that results are applicable to the swine industry. PLoS One is an open access, multi-disciplinary journal. The 2019 PLoS One five-year IF is 3.23.
13. \*\* \*Bucini, G., Merrill, S. C., Clark, E., Moegenburg, S. M., Zia, A., Koliba, C. J., Wiltshire, S., Trinity, L., & **Smith, J. M.** (2019). Risk attitudes affect livestock biosecurity decisions with ramifications for disease control in a simulated production system. *Frontiers in Veterinary Science*, 6. <https://doi.org/10.3389/fvets.2019.00196>  
In this paper, we reported including behavioral distributions of human agents in an agent-based model simulating disease spread and the effect of shifting risk mitigation behaviors on modeled outbreaks. This article has had more views than 85% of all Frontiers articles. Frontiers in Veterinary Science is an open access journal with an IF of 2.24.
14. \*Merrill, S. C., Moegenburg, S., Koliba, C. J., Zia, A., Trinity, L., Clark, E., Bucini, G., Wiltshire, S., Sellnow, T., Sellnow, D. & **Smith, J. M.** (2019). Willingness to comply with biosecurity in livestock facilities: evidence from experimental simulations. *Frontiers in Veterinary Science*, 6. <https://doi.org/10.3389/fvets.2019.00156> (IF: 2.24)

15. \*\* \*Merrill, S. C., Koliba, C. J., Moegenburg, S. M., Zia, A., Parker, J., Sellnow, T., Wiltshire, S., Bucini, G., Danehy, C., & **Smith, J. M.** (2019). Decision-making in livestock biosecurity practices amidst environmental and social uncertainty: evidence from an experimental game, *PLoS One*, *14*(4), e0214500. <https://doi.org/10.1371/journal.pone.0214500> (IF: 2.74)  
To my knowledge, this was the first paper published on using digital experiments to collect data on decision-making in the context of livestock biosecurity. A key finding was the differential impact of types of situational information, i.e., knowing where disease is versus knowing what others are doing in terms of biosecurity. This work displays the success of the inter-disciplinary project team, combining insights from ecology, public policy, anthropology, communication, and animal science with programming, computer and data science skills.
16. Ferris, T. A., **Smith, J. M.**, Dunckel, M. A., Cullens, F. & Kuschel, A. (2020). Designing educational farm tours to improve consumer trust in modern agriculture. *The Journal of Extension [On-line]*, *58*(1) Article 11. <https://tigerprints.clemson.edu/joe/vol58/iss1/11> [Not ranked by InCites. *The Journal of Extension* is the official refereed journal for Extension professionals and other outreach educators. The acceptance rate for 2013 through 2017 was less than 30%.]
17. \*Wiltshire, S., Zia, A., Koliba, C., Bucini, G., Clark, E., Merrill, S., **Smith, J.**, & Moegenburg, S. (2019). Network meta-metrics: Using evolutionary computation to identify effective indicators of epidemiological vulnerability in a livestock production system model. *Journal of Artificial Societies and Social Simulation*, *22*(2), 8. <https://doi.org/10.18564/jasss.3991> (IF: 2.22)
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19. \*\* \*Sellnow, T. L., Parker, J. S., Sellnow, D. D., Littlefield, R. S., Helsel, E. M., Getchell, M. C., **Smith, J. M.**, & Merrill, S. C. (2017). Improving biosecurity through instructional crisis communication: lessons learned from the PEDv outbreak. *Journal of Applied Communications*, *101*(4). <https://doi.org/10.4148/1051-0834.1298> (Article of the Year.) [Not ranked by InCites.]  
The importance of instructional risk communication was underscored by this study of communications during a recent animal disease outbreak. This manuscript was recognized as **Article of the Year** and has had over **335 downloads** since February, 13, 2018. The Journal of Applied Communications considers itself “the premiere publication addressing developments in theory, practice, and teaching pertaining to agricultural communication” and is the journal of the Association for Communication Excellence.
20. \*Wu, Q., Schulz, L.L., Tonsor, G. T., & **Smith, J. M.** (2017). Expert views on effectiveness, feasibility, and implementation of biosecurity measures for mitigating Tier 1 disease risks in the U.S. swine, beef cattle, and dairy industries. *Journal of Veterinary Science and Technology*, *8*(2), 435. <https://doi.org/10.4172/2157-7579.1000435> [Not ranked by InCites.]
21. Smith, R. L., Gröhn, Y. T., Pradhan, A. K., Whitlock, R. H., Van Kessel, J. S., **Smith, J. M.**, Wolfgang, D. R., & Schukken, Y. H. (2016). The effects of progressing and non-progressing *Mycobacterium avium* ssp. *paratuberculosis* infection on milk production in dairy cows. *Journal of Dairy Science*, *99*, 1383-1390. <https://doi.org/10.3168/jds.2015-9822> (IF: 2.47)
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- and Environmental Microbiology*, 81, 4477-4488. <https://doi.org/10.1128/AEM.00465-15> (link not working) [IF: 3.82]
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  38. Block, S. S., **Smith, J. M.**, Ehrhardt, R. A., Diaz, M. C., Rhoads, R. P., Van Amburgh, M. E., & Boisclair, Y. R. (2003). Nutritional and developmental regulation of plasma leptin in dairy cattle. *Journal of Dairy Science*, 86, 3206-3214. [https://doi.org/10.3168/jds.s0022-0302\(03\)73923-x](https://doi.org/10.3168/jds.s0022-0302(03)73923-x) (IF: 2.14) Cited 84 times.
  39. **Smith, J. M.**, Van Amburgh, M. E., Díaz, M. C., Lucy, M. C., & Bauman, D. E. (2002). Effect of nutrient intake on the development of the somatotrophic axis and its responsiveness to GH in Holstein bull calves. *Journal of Animal Science*, 80, 1528-1537. <https://doi.org/10.2527/2002.8061528x> (IF: 1.58) Cited 122 times.  
The cornerstone of my dissertation work was demonstrating the nutritional responsiveness of the growth hormone/insulin-like-growth factor system in dairy calves. This is currently my most cited paper as first author.
  40. Díaz, M. C., Van Amburgh, M. E., **Smith, J. M.**, Kelsey, J. M., & Hutten, E. L. (2001). Composition of growth of Holstein calves fed milk replacer from birth to 105 kilogram body weight. *Journal of Dairy Science*, 84, 830-842. [https://doi.org/10.3168/jds.s0022-0302\(01\)74541-9](https://doi.org/10.3168/jds.s0022-0302(01)74541-9) (IF: 1.69) Cited 358 times.

### Published peer-reviewed conference abstracts and proceedings

A single asterisk marks abstracts I presented.

1. Smith, J. M., Dixon, A. D., & Thach, M. L. (submitted). Challenging enhanced biosecurity plans: when continuity of business is elusive. AAEV Applied Animal and Public Health Research & Extension Symposium, National Harbor, MD. (Oct. 15, 2023)
2. Baye, R., Zia, A., Merrill, S., Clark, E., **Smith, J.**, & Koliba, C. (submitted). Unraveling the nexus of farm-level biosecurity and disease reporting: Evidence from regret minimization models. 105<sup>th</sup> Conference of Research Workers in Animal Diseases, Chicago, IL.
3. Andrew, K., Rosenblatt, S. F., Forsyth, K., Clark, E., Turnbull, S., **Smith, J. M.**, & Zia, A. (submitted). Increasing the speed of large-scale agent-based models of networked porcine disease transfer with GPU-acceleration. 105<sup>th</sup> Conference of Research Workers in Animal Diseases, Chicago, IL.

4. Baye, R. S., Merrill, S., Zia, A., **Smith, J.**, Clark, E., & Koliba, C. (submitted). Enhancing food security: Assessing biosecurity attitudes and decision-making strategies of swine producers. 105<sup>th</sup> Conference of Research Workers in Animal Diseases, Chicago, IL.
5. Osuagwu, J. U., **Smith, J. M.**, & Reeves, A. (submitted). Using the North American Animal Disease Spread Model (NAADSM) as a decision-making tool should FMD break out in New England. 105<sup>th</sup> Conference of Research Workers in Animal Diseases, Chicago, IL.
6. Zia, A., Baye, R., Merrill, S., Clark, E., Del Rossi, G., Dean, J., Rosenblatt, S., Cheney, N., Hebert-Dufresne, L., & **Smith, J.** (submitted). Eliciting behavioral responses to alternate biosecurity risk management strategies in a stochastic game. 105<sup>th</sup> Conference of Research Workers in Animal Diseases, Chicago, IL.
7. Zia, A., Delgado, A. H., Bucini, G., Merrill, S. C., Koliba, C., Del Rossi, G., Baye, R. S., Norby, B., & **Smith, J. M.** (submitted). Testing an extended theory of planned behavior to explain cattle producers' intent to comply with FMD controls. 105<sup>th</sup> Conference of Research Workers in Animal Diseases, Chicago, IL.
8. \***Smith, J. M.**, McDonald, J., Kerr, S., Rankin, J. M., & Cummings, J. (2023, June 26). *Evaluation of HFHA learning modules: knowledge and intention* [Poster Abstract]. American Dairy Science Association, Ottawa, Ontario, Canada.
9. Osuagwu, J., & **Smith, J. M.** (2023, January 23). *Frequencies and interactions of animals on Vermont dairy farms*. [Virtual Abstract]. 104<sup>th</sup> Conference of Research Workers in Animal Diseases, Chicago, IL.
10. Zia, A., Clark, E., Bucini, G., Baye, R., Merrill, S., Koliba, C., Cheney, N., Hébert-Dufresne, L., & **Smith, J.** (2023, January 23) *Discovering leverage points for enhancing biosecurity in swine production networks using agent based models* [In-Person Oral Abstract]. 103<sup>rd</sup> Conference of Research Workers in Animal Diseases, Chicago, IL.
11. Baye, R., **Smith, J.**, Zia, A., Clark, E., Merrill, S., & Koliba, C. (2023, January 23) *Understanding how indemnity affects biosecurity measures by United States swine producers* [In-Person Oral Abstract]. 103<sup>rd</sup> Conference of Research Workers in Animal Diseases, Chicago, IL.
12. Langle-Chimal, O., Clark, E. M., Merrill, S. C., Bucini, G., Shrum, T., Koliba, C., Zia, A., **Smith, J. M.**, & Cheney, N. (2021, November 30–December 2). *The effects of personal beliefs on a disease spreading process*. [Abstract] Complex Networks 2021: The 10<sup>th</sup> International Conference on Complex Networks and their Applications [Virtual], Madrid, Spain. <https://drive.google.com/file/d/1SUihk9j5CDxRJtE73tmXj1TEWVTTUOm4/view>
13. \***Smith, J. M.**, Trinity, L., Shrum, T. R., Sellnow, T. L., Sellnow, D. D., Langle-Chimal, O. D., Koliba, C. J., Clark, E., Cheney, N., Bucini, G., Merrill, S. C., & Zia, A. (2021, December 4–7). *Animal disease spread models can be improved by including human behavior* [Abstract]. Author Index & Presentation Abstracts, 102<sup>nd</sup> Conference of Research Workers in Animal Diseases [Virtual], Chicago, IL. <https://crwad.org/wp-content/uploads/CRWAD-2021-Proceedings-FINAL.pdf>
14. Liu, T., O'Keefe, A., Clark, E., Merrill, S., Trinity, L., Shrum, T., Koliba, C., Zia, A., & **Smith, J.** (2021, December 4–7). *Does the language of information delivery influence biosecurity compliance? Insights from experimental simulations* [Abstract]. 102<sup>nd</sup> Conference of Research Workers in Animal Diseases [Virtual], Chicago, IL. <https://crwad.org/wp-content/uploads/CRWAD-2021-Proceedings-FINAL.pdf>
15. Clark, E., Bucini, G., Merrill, S. C., Langle-Chimal, O., Koliba, C., Trinity, L., Shrum, T., Cheney, N., Zia, A. & **Smith, J. M.** (2021, December 4–7). *Linking experimental games with agent based models to quantify agricultural outbreak dynamics* [Abstract]. 102<sup>nd</sup> Conference of Research Workers in Animal Diseases [Virtual], Chicago, IL. <https://crwad.org/wp-content/uploads/CRWAD-2021-Proceedings-FINAL.pdf>

16. Merrill, S. C., Bucini, G., Clark, E. M., Koliba, C. J., Trinity, L., Zia, A., Langle-Chimal, O., Cheney, N., Shrum, T. R., Sellnow, T., Sellnow, D. D., & **Smith, J. M.** (2021). Why we need to account for human behavior and decision-making to effectively model the non-linear dynamics of livestock disease. *Proceedings of the International Crisis and Risk Communication Conference, 4*, 23-28. Orlando, Florida: Nicholson School of Communication and Media. <https://doi.org/10.30658/icrcc.2021.06>
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18. Bucini, G., Merrill, S. C., Clark, E. M., Koliba, C., Zia, A., Langle-Chimal, O., Tonsor, G., Schulz, L., Wiltshire, S., Trinity, L., Sellnow, D., Sellnow, T. L., Cheney, N., & **Smith, J. M.** (2020, December 5–8). *Connecting livestock disease and market dynamics to human biosecurity decisions* [Abstract]. Author Index and Presentation Abstracts, 101<sup>st</sup> Conference of Research Workers in Animal Diseases, Chicago, IL. <https://crwad.org/wp-content/uploads/CRWAD-2020-Proceedings-FINAL.pdf>
19. Clark, E. M., Merrill, S. C., Trinity, L., Bucini, G., Cheney, N. A., Langle-Chimal, O., Shrum, T., Koliba, C., Zia, A., & **Smith, J. M.** (2020, December 5–8). *Harnessing emergent digital tools for quantifying agricultural disease risk preferences* [Abstract]. Author Index and Presentation Abstracts, 101<sup>st</sup> Conference of Research Workers in Animal Diseases, Chicago, IL. <https://crwad.org/wp-content/uploads/CRWAD-2020-Proceedings-FINAL.pdf>
20. \***Smith, J. M.**, & Cummings, J. C. (2020). PSIX-38 Poster Program Pick: Healthy Farms Healthy Agriculture: A web hub for biosecurity to protect the herd and flock [Poster abstract], *Journal of Animal Science*, 98(Suppl. 4), 323. <https://doi.org/10.1093/jas/skaa278.577>
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### Non-peer-reviewed abstracts and proceedings

An asterisk marks abstracts I presented. Professional presentations (marked P) were to research or extension peers. Extension or outreach presentations (marked E) were to other stakeholders or students.

1. (E) \***Smith, J. M.**, Merrill, S. C., & Clark, E. M. (2023, June 14). Social ecological gaming and simulation technologies support livestock emergency preparedness. *Animal Health, Nutrition & Technology Innovation*, Boston, MA.
2. (P) \***Smith, J. M.**, T. M. Bass, G. Bucini, N. A. Cheney, E. Clark, J. Cummings, M. C. Getchell, E. A. Greene, K. M. Hiney, J. O. Iverson, S. R. Kerr, C. J. Koliba, R. S. Littlefield, J. M. Martin, J. McDonald, S. C. Merrill, J. S. Parker, J. M. Rankin, L. Schulz, D. Sellnow, T. L. Sellnow, R. Sero, T. Shrum, G. Tonsor, and A. Zia. (2020). Interactions and innovations generate insights for influencing biosecurity adoption in agricultural animal systems [NIFA PI Poster abstract]. Conference of Research Workers in Animal Disease, Chicago, IL.
3. (P) \***Smith, J. M.**, T. M. Bass, G. Bucini, N. A. Cheney, E. Clark, J. Cummings, M. C. Getchell, E. A. Greene, L. E. Higgins, K. M. Hiney, J. O. Iverson, S. R. Kerr, C. J. Koliba, E. Kristiansen, R. S. Littlefield, J. M. Martin, J. McDonald, S. C. Merrill, S. Moegenburg, M. Myers, J. S. Parker, J. M. Rankin, L. Schulz, D. Sellnow, T. L. Sellnow, R. Sero, G. Tonsor, and A. Zia. (2019, November 4). Taking a transdisciplinary approach reveals new insights for protecting food animal health [NIFA PI Poster session]. Conference of Research Workers in Animal Disease, Chicago, IL.
4. (P) Higgins, L.E., & **J. M. Smith**. (2019, November 13). Visualizing connections to document development of interdisciplinary collaboration among researchers [Poster session]. American Evaluation Association, Minneapolis, MN.
5. (P) \*McDonald, J., S. Kerr, J. M. Rankin, & **J. M. Smith**. (2019, October 26). Introducing an innovative livestock biosecurity curriculum for youth. [Presentation abstract, Applied Animal and Public Health Research and Extension Symposium] Annual Meeting of the United States Animal Health Association, Providence, RI.
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7. (P) \***Smith, J. M.**, T. Bass, G. Bucini, S. Dritz, S. Kerr, C. Koliba, R. Littlefield, J. McDonald, S. Merrill, J. Parker, J. Rankin, L. Schulz, D. Sellnow, T. Sellnow, R. Sero, G. Tonsor, & A. Zia. (2017, December 1). A human behavioral approach to reducing the impact of livestock pest or disease incursions of socio-economic importance [Poster abstract]. USDA NIFA Animal Health Project Directors Meeting, Chicago, IL.
8. (P) Bucini, G., S. Wiltshire, E. Clark, S. Merrill, A. Zia, C. Koliba, S. Moegenburg, L. Trinity, & **J. Smith**. (2017, November 7). Protecting herd health: Interactive agent-based modeling used to reduce the impact of disease" [Poster session]. Larner College of Medicine 2017 Celebration of Excellence in Research, Burlington, VT.
9. (P) Wiltshire, S., G. Bucini, E. Clark, C. Koliba, A. Zia, S. Merrill, **J. Smith**, & S. Moegenburg. (2017, October 21). Coupling agent-based modeling with network analytics and evolutionary computation: Can network features predict epidemiological risk in livestock production systems? [Poster session]. Conference of the Computational Social Science Society of the Americas, Santa Fe, NM.
10. (P) \***Smith, J. M.** (2015, October 22–28). The complexity of saving your bacon: the policy and human behavioral challenges of protecting food animal health. [Invited presentation abstract, USDA Research Reviews] Proceedings of the 2015 Annual Meeting of the United States Animal Health Association, Providence, RI, [https://www.usaha.org/upload/Proceedings/2015\\_Proceedings\\_web2.pdf](https://www.usaha.org/upload/Proceedings/2015_Proceedings_web2.pdf)

11. (P) Kung, L., J. Lim, D.J. Hudson\*, D., **J. Smith**, & R.D. Joerger. (2014, November 2–5). Chemical composition and nutritive value of corn silage affected by Hurricane Irene [Poster session]. American Society of Agronomy, Long Beach, CA.
12. (P) \***Smith, J. M.**, R. Parsons, & E. Rowe. (2013, October 7–8). Costs and challenges of developing and implementing a community-wide biosecurity plan [Poster session]. NIFA Animal Health and Well-Being PD Workshop, College Park, MD.
13. (E) Kung, Jr., L., J. M. Lim, D. J. Hudson, **J. M. Smith**, H. Darby, L. E. Chase, & R. D. Joerger. (2012, October 16–18). Flooded corn silage study results – a preliminary report [Conference presentation]. Proceedings of the Cornell Nutrition Conference. Cornell University, Ithaca, NY.
14. (P) \***Smith, J. M.** (2012, September 20–22). Types and frequencies of movements onto and off of Vermont dairy farms. American Association of Bovine Practitioners, Montreal, Quebec, September 21 (Poster 13). Proceedings of the Forty-Fifth Annual Conference. American Association of Bovine Practitioners, Montreal, Canada. p. 254.
15. (P) \***Smith, J. M.** (2011, April 19–21). Animal disease disaster dilemma: Engaging stakeholders in preparedness [Poster session]. NIFA Animal Systems Awardee Meeting, Arlington, VA.
16. (P) \***Smith, J. M.** (2010, November 2–4). Animal disease disaster dilemma: Engaging stakeholders in preparedness [Poster session]. Extension Disaster Education Network Annual Meeting, Lexington, KY.
17. (E) **Smith, J. M.**, R. Grover, & J. Sullivan. (2010, May 12). Critical links supporting Vermont's bulk milk transportation: a novel application of the Network Robustness Index [Poster session]. Transportation Research Center Research Expo, Burlington, VT.
18. (E) \***Smith, J.** (2010, February 25). Prepare to survive a bio-disaster [Invited conference presentation]. Proceedings of the Vermont Dairy Producers' Conference, Burlington, VT.
19. (E) Whitlock, R., R. W. Sweeney, **J. Smith**, J. Van Kessel, E. Hovingh, J. Karns, D. Wolfgang, T. Fyock, S. McAdams, & Y. Schukken. (2009, August 9–10). Environment of the adult cow [Conference presentation]. Proceedings of the 2<sup>nd</sup> New Horizons in Johne's Disease Control Workshop, Minneapolis, MN.
20. (E) Whitlock R. H., I. A. Gardner, Y. Schukken, B. L. Mangold, R. W. Sweeney, J. Van Kessel, J. Karns, **J. Smith**, E. Hovingh, & D. Wolfgang. (2009, June 3–6). Johne's disease supershedders, passive shedders & adult infection [Conference presentation]. Proceedings of the American College of Veterinary Internal Medicine Forum & Canadian Veterinary Medical Association Convention, Montreal, QC, Canada, pp 271-273.
21. (E) Whitlock R. H., R. W. Sweeney, **J. Smith**, J. Van Kessel, E. Hovingh, J. Karns, D. Wolfgang, T. Fyock, S. McAdams, & Y. Schukken. (2008, October 2–5). Where are we with diagnostic testing in Johne's disease and effect of the "Super-Shedder" on herd infection? [Conference presentation]. Proceedings of the New York State Veterinary Conference, Ithaca, NY, pp 1-5.
22. (E) Whitlock, R. H., Y. Schukken, **J. Smith**, J. Van Kessel, E. Hoving [sic], J. Karns, D. Wolfgang, T. Johnson, R. Sweeney, S. McAdams, & T. Fyock. (2008, April 18). Cattle shedding MAP: a new paradigm; passive shedding or active shedding? [Conference presentation]. Proceedings of the New Horizons in Johne's Disease Control, Lansing, MI.
23. (P) Whitlock, R. H., I. A. Gardner, B. L. Mangold, **J. Smith**, R. W. Sweeney, Y. Schukken, J. Van Kessel, E. Hovingh, J. Karns, D. Wolfgang, & T. Fyock. (2006, September). Johne's disease: *Mycobacterium paratuberculosis* super-shedders: Detection and contribution to

- passive shedding (false positive fecal cultures) [Conference presentation]. Proceedings of the American Association of Bovine Practitioners, St. Paul, MN.
24. (E) \***Smith, J.** (2006, March 3). Colostrum—Don't Be Born Without It! [Conference presentation] Sustainable Livestock Conference, Fairlee, VT.
  25. (E) \***Smith, J.** (2005, August 18). Challenging Concepts in Calf and Heifer Nutrition [Invited conference presentation]. Dairy Nutrition 2005, Miner Institute, Chazy, NY.
  26. (P) \***Smith, J. M.** (2005, July 18–21). Now on Video: Healthy Farms—Healthy Agriculture [Conference presentation]. National Association of County Agricultural Agents Annual Meeting and Professional Improvement Conference, Buffalo, NY.
  27. (P) \***Smith, J. M., & E. M. Brunst.** (2005, July 18–21). Effect of Handling on Microbiological Quality of Colostrum [Poster session]. National Association of County Agricultural Agents Annual Meeting and Professional Improvement Conference, Buffalo, NY.
  28. (E) \***Smith, J.** (2005, January 25–27). Biosecurity assessments to biosecurity plans: Safeguarding your livestock operation [Invited conference presentation]. Proceedings of Dairy Calves and Heifers: Integrating Biology and Management, Syracuse, NY, NRAES-175, pp. 306-309.
  29. (E) *Smith, R. L., & J. M. Smith.* (2004). *Natural rendering [3-section poster display]. Exhibited at New England Dairy and Beef Expo and Natural Resource Conservation Service (NRCS) offices across Vermont 2004–2007.*
  30. (P) \***Smith, J. M.** (2004, July 11–14). *Healthy Farms—Healthy Agriculture: A biosecurity blitz [Poster session]. National Association of County Agricultural Agents Annual Meeting and Professional Improvement Conference, Orlando, FL.*
  31. (E) \***Smith, J.** (2004, April 1). Liquid feeding programs for optimal calf health [Conference presentation]. In 2004 Proceedings of the Ruminant Health-Nutrition Conference/New England Dairy Feed Conference, West Lebanon, NH.
  32. (E) \***Smith, J.** (2003, August 14). Challenging concepts in calf and heifer nutrition [Conference presentation]. Dairy Nutrition 2003, Miner Institute, Chazy, NY.
  33. (E) \***Smith, J.** (2003, January 25). Dead animal composting: A viable method of disposal [Conference presentation]. Seventh Annual Vermont Grazing Conference: Innovations in Grass Farming, Randolph Center, VT.
  34. (E) \***Smith, J.** (2002). Preparing for a successful first transition: Understanding the biology of the calf [Invited conference presentation]. Proceedings 2002 Vermont Large Farm Dairy Conference, Burlington, VT, pp. 39-48.
  35. (E) Van Amburgh, M., J. Tikofsky, & **J. Smith.** (2001, April 17–18). Requirements for and regulation of growth of Holstein calves—Implications for decreasing age at first calving [Conference presentation]. Proceedings 2001 Tri-State Dairy Nutrition Conference, Fort Wayne, IN.
  36. (E) Van Amburgh, M., J. Tikofsky, & **J. Smith.** (2001, January 25). Requirements for and regulation of growth of Holstein calves [Conference presentation]. Proceedings 2001 Ruminant Health-Nutrition Conference, Syracuse, NY, pp. 1-10.
  37. (E) Van Amburgh, M., M. C. Diaz, & **J. Smith.** (1999). Nutrition and management of the milk fed calf [Conference presentation]. 1999 Winter Dairy Management Schools, Animal Science Mimeograph Series No. 201, New York State College of Agriculture and Life Sciences, Cornell University, Ithaca, NY, pp. 54-66.

38. (E) \***Smith, J. M.**, M. C. Diaz, M. E. Van Amburgh, D.E. Bauman, & M. C. Lucy. (1998). Ontogeny of the somatotrophic axis in milk-fed bull calves between birth and 105 kg [Conference presentation]. Proceedings 1998 Cornell Nutrition Conference for Feed Manufacturers, Rochester, NY, pp. 119-129.
39. (E) Diaz, M. C., **J. M. Smith**, & M. E. Van Amburgh. (1998). Nutrient requirements and management of the milk fed calf [Conference presentation]. Proceedings 1998 Cornell Nutrition Conference for Feed Manufacturers, Rochester, NY, pp.130-141.

### Technical publications

All of the following were subject to review by experts in the field prior to publication.

1. **Smith, J. M.**, & S. Kerr. (under review) DPC 78: Guideline for biosecurity for sheep and goat dairies. The Dairy Practices Council.
2. Calder, R., & **J. Smith**. (2010). Series of fact sheets on Johne's disease. (Written with an undergraduate pre-vet major; the fact sheets were distributed to Vermont large animal veterinarians and posted on the UVM Extension website.)
3. **Bovine Alliance on Management and Nutrition (BAMN)**. (2007). Heifer growth and economics: Target growth. 6 pp. (I served as primary author. NACAA state winner, fact sheet, 2007.) Available at:  
[https://www.aphis.usda.gov/animal\\_health/nahms/dairy/downloads/bamn/BAMN07\\_HeiferGrowth.pdf](https://www.aphis.usda.gov/animal_health/nahms/dairy/downloads/bamn/BAMN07_HeiferGrowth.pdf)  
 BAMN publications are distributed to veterinarians and members of the feed industry by distribution to all members of the American Association of Bovine Practitioners and posting on the American Feed Industry Association web site. The publications were previously available through the Animal Health Monitoring and Surveillance page of USDA APHIS.
4. **Smith, J.** (2004). Healthy Farms—Healthy Agriculture: Protecting the health of animal agriculture. An overview of dairy cattle biosecurity. VHS video. 18 min. (I produced this award-winning video, available in VHS and DVD format, with professional videographers. NACAA national winner, videotape, 2005.)
5. **Smith, J.**, J. Ather, M. Murray, & L. Yandow. (2003). Healthy Farms—Healthy Agriculture. 3-ring binder. 117 pp. (I served as overall project manager, editor, review coordinator, and proofreader of this project. The materials were mailed to every dairy and beef farmer in Vermont in 2003. NACAA regional finalist, 2004.)

### Technical Websites

1. **Smith, J. M.**, & J. Cummings. (2018). 'Healthy Farms—Healthy Agriculture.' The Healthy Farms—Healthy Agriculture site has been revamped and moved to an external server. This effort is/was partially supported by the National Institute of Food and Agriculture, US Department of Agriculture, under award number 2015-69004-23273. The site includes learning modules developed by the project team. (<https://healthyagriculture.org>)
2. eXtension EDEN agrosecurity team. 'Agrosecurity and floods.' Provided peer-reviewed content on flooding, agrosecurity, and agricultural emergency management topics for outreach professionals and the general public. ([www.extension.org/disasters](http://www.extension.org/disasters))  
*This website is no longer hosting agrosecurity resources.*
3. **Smith, J.**, & K. Parker. (2003, updated in 2010). 'Healthy Farms—Healthy Agriculture.' Provides biosecurity assessment tool and best management practices for livestock producers. ([www.uvm.edu/~ascibios](http://www.uvm.edu/~ascibios)) (I oversaw the conversion of print materials to web pages with the technical assistance of Kim Parker. Migration to UVM Extension template and updates completed with the assistance of Krista Cheney.)  
*This url redirects to the new Healthy Farms Healthy Agriculture site.*

## Technical reports

1. **Smith, J. M.**, J. Sullivan, & R. Grover. (2011). Application of the network robustness index to identify critical links supporting Vermont's bulk milk transportation. UVM TRC Report #11-006.

## Other

1. *Animal Disease Biosecurity Coordinated Agricultural Project 2019 Symposium Summary* (n.d.). <https://agbiosecurityproject.org> (I edited the summaries and provided the executive summary and concluding remarks.)
2. Educating youth about biosecurity can help prevent the spread of disease in farm animals. (2019). *Futurum*, Issue 3, 42-45. <https://doi.org/10.33424/FUTURUM34>
3. ADBCAP: A human approach to improving biosecurity. (2019). *Scientia*. <https://doi.org/10.33548/SCIENTIA453>

## Popular press/Trade journals and newsletters

1. Smith, J. (2023, June) Animal agriculture awaits 'normal accidents' when it comes to biosecurity. *Progressive Dairy*. Available online at: <https://www.agproud.com/articles/57792-animal-agriculture-awaits-normal-accidents-when-it-comes-to-biosecurity>
2. Bucini, G., Merrill, S. C., Clark, E. M., & Smith, J. M. (2023, April 7). Wait and see? Biosecurity decision-making under disease risk—Part 2. *Dr. Bob Morrison's Swine Health Monitoring Project* [Newsletter].
3. Bucini, G., Merrill, S. C., Clark, E. M., & Smith, J. M. (2023, March 31). Wait and see? Biosecurity decision-making under disease risk—Part 1. *Dr. Bob Morrison's Swine Health Monitoring Project* [Newsletter].
4. **Smith, J.** (2023, April). Can you take biosecurity from 0 to 60 overnight? *Progressive Dairy*. Available online at: <https://www.agproud.com/articles/57037-can-you-take-biosecurity-from-0-to-60-overnight>
5. **Smith, J.** (2018, January). Comment ameliorer le bien-etre des animaux dans la salle de traite. *Progressive Dairyman – en francais*.
6. Ferris, T., **J. Smith**, & E. Richer. (2017, December 22). Consumer perception of dairy cow care. *MSUE News*. [http://msue.anr.msu.edu/news/consumers\\_give\\_95\\_percent\\_approval\\_of\\_dairy\\_housing\\_and\\_animal\\_care\\_after\\_f](http://msue.anr.msu.edu/news/consumers_give_95_percent_approval_of_dairy_housing_and_animal_care_after_f)
7. **Smith, J.** (2016, October 1). How to improve animal welfare in the milking parlor. *Progressive Dairyman*. (and Canadian edition, January 2017)
8. **Smith, J.** & T. Ferris. (2016, October). Breakfast on the Farm event changes consumers' perceptions. *Dairy Business & Holstein World*.
9. **Smith, J.** (2016, April 19). Milk residues from a veterinarian's perspective. *Progressive Dairyman*.
10. **Smith, J.** (2014, June 17). FMD symposium drives action steps. *Drovers Cattle Network*.
11. **Smith, J.** (2013, October 25). An invisible health threat is lurking. *Hoard's Dairyman*.
12. **Smith, J.** (2007). Think like a pioneer to prepare for rural emergencies: Part II. Have an emergency? Who is going to respond in your neighborhood? *Agriview*, 71(17).
13. **Smith, J.** (2007). Think like a pioneer to prepare for rural emergencies: Part I. Emergency preparedness in a rural setting requires additional planning. *Agriview*, 71(15).
14. **Smith, J.** (2007, June). For healthier calves, shave stress. *Northeast Dairy Business*, 9(6), 26-27.

15. **Smith, J.** (2007, June). How to improve your vaccination program. *Northeast Dairy Business*, 9(6), 28-29.
16. **Smith, J.** (2005). Calf and heifer management: the cornerstone of a successful dairy business. *Agriview*, 69(6). (Reprinted in New Hampshire Weekly Market Bulletin, Vol. 84, No. 7, April 20, 2005.)
17. **Smith, J.** (2004). Coexisting with wildlife: Is it something to crow or complain about? ["Ask the Vet" column]. *Vermont Beef News*, 5(4).
18. **Smith, J.** (2004, January 30). Growth Hormone Explained ["My Turn" Guest Opinion Column]. *Burlington Free Press*.
19. **Smith, J.** (2004). Dead Animal Composting: Part III [Guest Editorial]. *Vermont Beef News*, 5(1).
20. **Smith, J.** (2003). Dead Animal Composting: A Viable Method of Disposal. Part II [Guest Editorial]. *Vermont Beef News*, 4(6).
21. **Smith, J.** (2003, October 23). Survey of Agriculture and Land Use in Charlotte: Preliminary Results [Commentary]. *Charlotte News*.
22. **Smith, J.** (2003). Dead Animal Composting: A Viable Method of Disposal. Part I (of 3) [Guest Editorial] *Vermont Beef News*, 4(5).
23. **Smith, J. M., & J. Lopez.** (1996). Thrombotic meningoencephalitis in a beef calf. *Agri-Practice*, 17(3).

### Newsletters/Blogs

- a. **Project Newsletters.** (2016–2019). A 4-page newsletter published twice a year reporting progress on the USDA NIFA funded project (Animal Disease Biosecurity Coordinated Agricultural Project). Sent to collaborators and advisors.
- b. **On-Farm Food Safety Briefs.** (2011–2012). Monthly short pieces on farm management that related to milk and meat safety. St. Albans Cooperative Newsletter.
- c. **Dr. Julie Smith's Dairy Blog.** (2010–2013). Blog posts primarily related to agricultural emergency preparedness topics. (<https://blog.uvm.edu/jmsmith/>)
- d. **Green Mountain Dairy Air.** (2002–2009). A 2- to 4-page newsletter published 4 to 6 times per year and mailed to Addison County dairy discussion group and electronically distributed to dairy faculty, nutritionists, and extension educators.

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## OTHER PRESENTATIONS

### Community conversation web meetings

1. Healthy Farms Healthy Agriculture. (2021, February 25). *Lessons from COVID and your animal science project* [Video]. YouTube [https://youtu.be/4gTIXTfKi\\_0](https://youtu.be/4gTIXTfKi_0)  
Web meeting with Susan Kerr as MC with Julie Smith, Pamela Watson, and Susan Kerr as featured speakers.
2. Healthy Farms Healthy Agriculture. (2020, November 12). *Biosecurity and zoonotic disease prevention: Keeping guests and animals safe* [Video]. YouTube [https://youtu.be/4gTIXTfKi\\_0](https://youtu.be/4gTIXTfKi_0)  
Web meeting with Julie Smith as MC and Jeff Bender as featured speaker.
3. Healthy Farms Healthy Agriculture. (2020, October 22). *Youth biosecurity education community conversation (IV)* [Video]. YouTube <https://youtu.be/UwwM2iC7EQ>  
Web meeting with Julie Smith as MC.

4. Healthy Farms Healthy Agriculture. (2020, October 15). *Youth biosecurity education community conversation (III)* [Video]. YouTube <https://youtu.be/iUwwM2iC7EQ>  
Web meeting with Julie Smith as MC.
5. Healthy Farms Healthy Agriculture. (2020, October 8). *Youth biosecurity education community conversation (II)* [Video]. YouTube <https://youtu.be/iUwwM2iC7EQ>  
Web meeting with Julie Smith as MC.
6. Healthy Farms Healthy Agriculture. (2020, October 1) *Youth biosecurity education community conversation (I)* [Video]. YouTube <https://www.youtube.com/watch?v=iUwwM2iC7EQ>  
Web meeting with Julie Smith as MC and Susan Kerr as featured speaker.
7. Healthy Farms Healthy Agriculture. (2020, July 23). *Cross-pollinating biosecurity community conversation (II)* [Video]. YouTube <https://www.youtube.com/watch?v=yQFMkJuc5cl&feature=youtu.be>  
Web meeting with Julie Smith as MC and Glynn Tonsor as featured speaker.
8. Healthy Farms Healthy Agriculture. (2020, July 14). *Cross-pollinating biosecurity community conversation (I)* [Video]. YouTube [https://www.youtube.com/watch?v=\\_zznZlwonl8&feature=youtu.be](https://www.youtube.com/watch?v=_zznZlwonl8&feature=youtu.be)  
Web meeting with Julie Smith and Deb Grantham as MCs and Betsy Lamb and Heather Fowler as featured speakers.
9. Healthy Farms Healthy Agriculture. (2020, May 14). *Biosecurity community conversation: On-farm mortality composting in the high plains* [Video]. YouTube <https://www.youtube.com/watch?v=kby169r18JA&feature=youtu.be>  
Web meeting with Julie Smith as MC and Tommy Bass as featured speaker.
10. Healthy Farms Healthy Agriculture. (2020, April 23). *Biosecurity community conversation: On-farm mortality composting* [Video]. YouTube <https://www.youtube.com/watch?v=fuQnzDjw3Q&feature=youtu.be>  
Web meeting with Julie Smith as MC and Mark Hutchinson as featured speaker.

### Professional presentations (to research or extension peers)

1. \*Smith, J. M. (2023, May 3). *A systems approach to securing the New England milk supply in the event of a foot-and-mouth disease outbreak*. NIFA PI Meeting [Virtual].
2. \*Smith, J. M., T. M. Bass, G. Bucini, N. A. Cheney, E. Clark, J. Cummings, M. C. Getchell, E. A. Greene, K. M. Hiney, J. O. Iverson, S. R. Kerr, C. J. Koliba, R. S. Littlefield, J. M. Martin, J. McDonald, S. C. Merrill, J. S. Parker, J. M. Rankin, L. Schulz, D. Sellnow, T. L. Sellnow, R. Sero, T. Shrum, G. Tonsor, and A. Zia. (2021, December 2). *The complexity of saving your bacon: policy and practical challenges of protecting food animal health*. Cells to Society Seminar, University of Vermont.
3. **Smith, J. M.** (2021, October 21). *Emergency biosecurity and movement permitting*. New England Extension In-Service [Virtual].
4. **Smith, J. M.**, and J. Cummings. (2020, May 21; posted May 29). *Biosecurity for healthy farms and healthy agriculture* [Invited webinar]. USDA APHIS Veterinary Services Training and Exercise Program. <https://youtu.be/E7TYtMcZXC0>
5. McDonald, J., S. Kerr, J. M. Rankin, and **J. M. Smith (presenter)**. (2019, October 26). *Introducing an innovative livestock biosecurity curriculum for youth*. Applied Animal and Public Health Research and Extension Symposium, Providence, RI.
6. **Smith, J. M. (presenter)**, J. McDonald, S. Kerr, J. M. Rankin, and R. Sero. (2019, March 13). *Programming online interactions to promote learning about biosecurity*. International Crisis and Risk Communication Conference, Orlando, FL.
7. Merrill, S. (presenter), C. Koliba, A. Zia, G. Bucini, S. Wiltshire, E. Clark, S. Moegenburg, L. Trinity, and **J. Smith**. (2017, November 3). *Serious games: Data gathering, complex systems analysis, and nudging*. Northeast Conference on Public Administration, Burlington, VT.

8. Bucini, G. (presenter), S. Merrill, C. Koliba, A. Zia, S. Wiltshire, E. Clark, L. Trinity, S. Moegenburg, and **J. Smith**. (2017, November 3). *Hog production chain biosecurity model*. Northeast Conference on Public Administration, Burlington, VT.
9. Zia, A. (presenter), C. Koliba, S. Merrill, E. Clark, G. Bucini, **J. Smith**, and S. Moegenburg. (2017, November 3). *Using agent-based models to address wicked problems*. Northeast Conference on Public Administration, Burlington, VT.
10. Koliba, C. (presenter), A. Zia, S. Merrill, G. Bucini, E. Clark, S. Moegenburg, and **J. Smith**. (2017, November 3). *Addressing wicked problems: What tools are in the toolbox? Serious gaming and system simulation*. Northeast Conference on Public Administration, Burlington, VT.
11. Zia, A. (presenter), S. Merrill, C. Koliba, S. Moegenburg, S. Wiltshire, E. Clark, B. Bucini, and **J. Smith**. (2017, September 17 – 22). *Are human agents myopic or far-sighted under differential conditions of risk and ambiguity? A Bayesian network model of biosecurity state transitions in a sequential decision experiment*. Conference on Complex Systems, Cancun, Quintana Roo, Mexico.
12. Bucini, G. (presenter), S. Wiltshire, S. Merrill, A. Zia, C. Koliba, E. Clark, L. Trinity, S. Moegenburg, and **J. Smith**. (2017, April 19 – 22). *Regional U.S. hog production chain biosecurity model*. Agent-Based Modeling - ABM17- A Symposium that Advances the Science of ABMs, San Diego, CA.
13. Bucini, G. (presenter), S. Wiltshire, S. Merrill, A. Zia, C. Koliba, E. Clark, L. Trinity, S. Moegenburg, and **J. Smith**. (2017, April 19 – 22). *Where will the infection spread? Effects of movement networks and human risk attitude on spread of swine disease*. Agent-Based Modeling - ABM17- A Symposium that Advances the Science of ABMs, San Diego, CA.
14. **Smith, J. (presenter)**. (2014, October 18). *A conversation on risk communication*. Mycobacterial Diseases of Animals 3<sup>rd</sup> Annual Conference Plenary Session, Extension/Outreach/Human Disease, Kansas City, MO.
15. **Smith, J., & K. Waters (co-presenters)**. (2013, October 10). *Communication before, during and after disaster: How key message development and audience identification strengthen Extension capabilities*. Extension Disaster Education Network Annual Meeting, Madison, WI.
16. **Smith, J.** (2013, September 18). *Message maps before, during and after disaster*. GALAXY IV, Pittsburgh, PA.
17. **Smith, J. (presenter)**, R. L. Parsons, & S.E. Rowe. (2012, December 1). *Costs and challenges associated with developing and implementing a community-wide biosecurity project*. Agriculture and Food Research Initiative Project Director Meeting, Chicago, IL.
18. **Smith, J.** (2012, October 20). *Vermont's dairy farm contact recall challenge*. American Association of Extension Veterinarians Applied Animal and Public Health Symposium, Greensboro, NC.
19. **Smith, J. (presenter)**, & S. E. Rowe. (2011, October 13). *Engaging stakeholders in animal disease disaster preparedness*. Extension Disaster Education Network Annual Meeting, Portland, OR.
20. **Smith, J. (presenter)**, K. Waters, T. Naile, S. Degenhart, & F. Peppers. (2011, October 13). *Building extension capacity to support effective risk and crisis communications with agricultural stakeholders*. Extension Disaster Education Network Annual Meeting, Portland, OR.
21. **Smith, J., L. Black, & L. Williams (co-presented by Williams and Black)**. (2011, October 13). *Emergency exercise participation and evaluation*. Extension Disaster Education Network Annual Meeting, Portland, OR.
22. **Smith, J.** (2009, February 8). *Why we need to take the risk of animal disease emergencies seriously*. "Foreign Animal Disease Response: Role of the Veterinarian." 2009 Vermont Veterinary Medical Association Winter Meeting, Burlington, VT.

23. **Smith, J.** (2007, October 20). *EDEN: Your land grant partner in preparedness and response education*. Committee on Animal Emergency Management, United States Animal Health Association, Reno, NV.
24. **Smith, J.** (2007, July 17). *Security alerts and why we in agriculture should care*. National Association of County Agricultural Agents, Grand Rapids, MI.
25. **Smith, J.** (2007, May 31). *Stacking the deck in favor of survival: An animal emergency primer*. Mid-Atlantic Consortium Dairy Extension In-Service Conference, Wilkes-Barre, PA.
26. **Smith, J., & S. Comstock.** (2006, October 26 – 27). *Animal emergency preparedness [Workshop]*. New England Extension In-Service, Northwood, NH. (Co-led 1-day training and presented 3 separate segments.)
27. **Smith, J. M.** (2005, November 5). *Identification of a subclinical Johne's super-shedder cow*. Applied Animal and Public Health Research and Extension Symposium at the United States Animal Health Association/American Association of Veterinary Laboratory Diagnosticians (USAHA/AAVLD) Annual Meeting and Conference, Hershey, PA.
28. Whitlock, R.H., **J. Smith**, Y. Schukken, E. Hovingh, R.W. Sweeney, B.A. Askim, & T.L. Fyock. (2005, November 4). *Super-shedders, environmental manure samples and pooling*. Regional Dairy Quality Management Alliance. Presented at National Johne's Working Group Annual Meeting, Hershey, PA.
29. **Smith, J.** (2004, October 23). *Healthy Farms—Healthy Agriculture: A producer-focused approach to biosecurity education*. American Association of Extension Veterinarians Annual Meeting, Greensboro, NC.
30. **Smith, J.** (2004, June 9). *Healthy Farms—Healthy Agriculture: An innovative approach to biosecurity education*. Mid-Atlantic Consortium Dairy Extension In-Service Conference, Wilkes-Barre, PA.

#### **Extension and outreach presentations (to practitioners or students)**

1. **Smith, J. M.** (2021, October 19, 20 & 21). *FAD 101: Communicating about livestock and poultry diseases* [RACE approved webinar]. Available at: <https://www.secure-agriculture.org/foreign-animal-disease-webinar-veterinarians/>
2. Bucini, G.\*, Clark, E.\*, S. C. Merrill, A. Zia, C. Koliba, L. Trinity, N. Cheney, O. Langle, T. Shrum, R. Schattman, R. Beattie, J. Urbani, S. Wiltshire, & **J. M. Smith.** (2020, January 31). *Digital tools for risk mitigation: the intriguing side of human behavior*. Plant and Soil Science Department Raymond Series Seminar, Burlington, VT. (\* joint first authorship)
3. **Smith, J. M.** (2019, April 10). *Behavioral approaches to reducing the impact of livestock pests or disease outbreaks*. Critical Infrastructure Partnership Advisory Committee (via online meeting connection), Arlington, VA.
4. **Smith, J. M., & E. Wolfe** (co-presenters). (2018, May 2). *Veterinary issues in the farming community*. Agricultural Medicine and Occupational Safety Training, Stowe, VT.
5. **Smith, J.** (2017, January 12). *Vermont veterinarian panel* (Panelist). Vermont Farm Health Coalition. Berlin, VT.
6. **Smith, J., & C. Emanuel** (co-presenters). (2016, June 14). *Animals and animal agriculture in radiological emergencies* [Webinar]. Extension Disaster Education Network.
7. **Smith, J.** (2016). *Animal welfare in the milking parlor. cow comfort, animal welfare and the public*. Northern New York Cornell Cooperative Extension workshops.  
January 12, Burrville, NY (Watertown)  
January 13, Canton, NY  
January 14, Chazy, NY (Miner Institute)
8. **Smith, J.** (2015). November 5. *Milk residues from a veterinarian's perspective*. Dairy Practices Council, Burlington, VT.
9. **Smith, J.** (2015, April 21). *Don't track it (back): Tips for maintaining biosecurity*. Vermont Natural Resources Conservation Services Technical Training, Richmond, VT.

10. **Smith, J.** (2014, October 24). *Agricultural safety in radiological and nuclear emergencies*. New England Radiological Health Conference, Burlington, VT.
11. **Smith, J.** (2014, March 18). *Dollars and sense of calf raising: Leveraging opportunities*. New England Cooperative Extension event coordinated by U Mass Amherst Cooperative Extension, Cost Reducing Strategies for Dairy and Livestock Operations, S. Deerfield, MA.
12. **Smith, J.** (2014). *Dollars and sense of calf raising: Exploring the options*. UVM Extension Agronomy Plus workshop series.  
February 6, St. Johnsbury, VT;  
February 7, Randolph, VT;  
February 11, Morrisville, VT;  
February 13, Newport, VT;  
March 14, Springfield, VT.
13. **Smith, J.** (2013, September 5). *FMD symposium overview*. DMI FMD Leadership Webinar.
14. **Smith, J.**, R. L. Parsons, & S. E. Rowe. (2012, December 6). *AFRI Biosecurity Project update*. Agri-Mark Region 8 Meeting, Middlebury, VT.
15. **Smith, J.** (2012, April 4). *Incorporating agricultural disasters into all hazards planning*. Town Officers' Education Conferences, Burlington, VT.
16. **Smith, J.** (2012, September 19). *Vermont dairy sustainability: Challenges and opportunities*. Vermont Dairy Industry Association Conference, Burlington, VT.
17. **Smith, J.** (2012, May 7). *Milk truck cleaning and disinfection drill*. New England States Animal Agricultural Security Alliance, White River Junction, VT.
18. **Smith, J.** (2012, May 7). *Vermont dairy farm biosecurity: 2010 survey*. New England States Animal Agricultural Security Alliance, White River Junction, VT.
19. **Smith, J.** (2011, November 5). *Agricultural emergency preparedness*. Vermont Emergency Preparedness Conference, Stowe, VT.
20. **Smith, J.** (2011, September 13). *Developing a New England regional agricultural communications system* [FoodShield webinar presentation]. New England States Animal Agricultural Security Alliance.
21. **Smith, J.** (2011, August 30). *An overview of modern livestock production: Trends and vulnerabilities*. Agricultural lecture series, Ilsley Public Library. Middlebury, VT.
22. **Smith, J.** (2011, June 10). *Milk flows in the New England milkshed*. Advisory meeting of AFRI project, Middlebury, VT.
23. **Smith, J.** (2011, June 10). *Risky networks and network solutions*. Advisory meeting of AFRI project, Middlebury, VT.
24. **Smith, J.** (2010, December 10). *Risk communication*. Advisory meeting of AFRI project, Middlebury, VT.
25. **Smith, J.** (2010, February 13). *Introducing a survey on animal movements and farm contacts*. St. Albans Cooperative Annual Meeting, St. Albans, VT.
26. **Smith, J.** (2009). *Introduction to continuity of business*. Agri-Mark member information meeting.  
November 23, Hyde Park, VT;  
November 24, Middlebury, VT.
27. **Smith, J.** (2009). *Introduction to continuity of business*. St. Albans Cooperative member information meeting.  
October 15, Irasburg, VT;  
October 15, Sheldon, VT;  
October 29, Middlebury, VT.
28. **Smith, J.** (2009). *Incorporating ag bio-disaster into all hazards planning*. Town Officers' Education Conferences.  
April 9, Lyndonville, VT;  
April 28, Fairlee, VT;  
May 6, Rutland, VT.

29. **Smith, J.** (2009). *Creating a resource inventory*. Town Officers' Education Conferences. April 9, Lyndonville, VT; April 28, Fairlee, VT.
30. **Smith, J.** (2010, February 25). *Prepare to survive a bio-disaster*. Vermont Dairy Producers' Conference, Burlington, VT.
31. **Smith, J.** (2009, September 23). *Keeping quality milk flowing: Smith research briefs*. Vermont Dairy Industry Association Annual Meeting, Burlington, VT.
32. **Smith, J.** (2009, July 14). *Why an ag bio-disaster needs to be on your radar*. Local Emergency Planning Committee 1, Winooski, VT.
33. **Smith, J.** (2009, April 15). *Are you ready for a highly contagious animal disease emergency?* Franklin County Fire-Fighters meeting, Franklin, VT.
34. **Smith, J.** (2008, November 6). *Building community resiliency: Prepare for the worst, plan for the best – How University of Vermont Extension and Extension resources can help*. "Prepare for the Worst, Plan for the Best" Panel, Vermont Emergency Management Conference, Lake Morey Inn, Fairlee, VT.
35. **Smith, J.** (2008, October 29). *What local emergency management needs to know about foreign animal disease*. Local Emergency Planning Committee 8, New Haven, VT.
36. Van Wie, S., & **J. Smith** (co-presenters). (2008, October 12). *Prepare to survive an ag bio-disaster*. Cold Hollow Veterinary Service and Northwest Veterinary Associates Client Meeting, Sheldon, VT.
37. Comstock, S., T. Johnson, & **Smith, J.** (2007, January 20). *Biosecurity—Beyond the footbath* (panel presentation). Eleventh Annual Vermont Grazing Conference: Overcoming Obstacles to Direct Marketing, Randolph Center, VT.
38. **Smith, J. M.** (2006, September 23). *Animal emergency preparedness*. Safety Fair, Hyde Park, VT.
39. **Smith, J.** (2006, September 11). *Biosecurity means healthy farms, healthy agriculture, and healthy tourism*. National Extension Tourism Conference, Burlington, VT.
40. **Smith, J.**, S. Comstock, & K. Rood. (2006, September 12). *Agrosecurity, Homeland Security, tourism security: Preparing the agricultural and non-agricultural sectors for bioterrorism or other emergencies impacting agriculture* (panel presentation). National Extension Tourism Conference, Burlington, VT.
41. **Smith, J.** (2005, August 18). *Challenging concepts in calf and heifer nutrition*. Dairy Nutrition 2005, Miner Institute, Chazy, NY.
42. **Smith, J.**, T. Johnson, & M. Wood. (2005, August 2). *Biosecurity hits the road*. Interactive workshop for 4-H youth at 4-H Dairy Show, Addison, VT.
43. **Smith, J.** (2004, November 10). *A new perspective on colostrum quality*. Vermont Dairy Herd Improvement Association annual delegate meeting, Randolph Center, VT.
44. **Smith, J.** (2004, September 24). *Administering nature's vaccine and other ways to protect your farm animals from invading germs*. NOFA-VT Livestock Nutrition and Health Care Course, Burlington, VT.
45. **Smith, J.** (2004, March 3). *Liquid feeding for optimal calf health: Focus on winter feeding*. Green Mountain Bovine Clinic Calf Care Symposium, Guilford, VT.
46. **Smith, J.**, J. Ather, M. Murray, & L. Yandow. (2003, December 2). *Healthy Farms—Healthy Agriculture*. Agri-Mark Producer Meeting, Hyde Park, VT.
47. **Smith, J.**, J. Ather, M. Murray, & L. Yandow. (2003, November 3). *Healthy Farms—Healthy Agriculture*. Milk Inspectors FDA Training Meeting, White River Junction, VT.
48. **Smith, J.**, J. Ather, M. Murray, & L. Yandow. (2003, October 28). *Healthy Farms—Healthy Agriculture*. DFA Producer Meeting, Middlebury, VT.
49. **Smith, J.** (2003, August 14). *Challenging concepts in calf and heifer nutrition*. Dairy Nutrition 2003, Miner Institute, Chazy, NY.

50. **Smith, J.** (2003, July 2). *Dead animal composting: A viable method of disposal*. Continuing Education for Certified Crop Advisers, Burlington, VT.
51. **Smith, J.** (2003, March 14). *Dead animal composting: A viable method of disposal*. New England Dairy Conference, St. Albans, VT.
52. **Smith, J.** (2003, February 21). *Calves on bST, heifers on CLA, Julie's in Vermont*. Animal Science Department Seminar, Burlington, VT.
53. **Smith, J.** (2003, February 7). *Dead animal composting: A viable method of disposal*. Pioneer Days, Middlebury, VT.
54. **Smith, J.** (2003, January 25). *Dead animal composting: A viable method of disposal*. Seventh Annual Vermont Grazing Conference: Innovations in Grass Farming, Randolph Center, VT.
55. **Smith, J.** (2002, December 13). *From zoo to you: Dairy research and Extension*. Vermont Mastitis Committee, Burlington, VT.
56. **Smith, J.** (2002, November 6). *From zoo to you: Dairy Research and Extension*. Vermont DHIA Delegates Annual Meeting, Randolph Center, VT.

### Television features

1. Across the Fence. (2020, February 20). *Ready for the Worst: Livestock Disease Preparedness*. [Video file]. Retrieved from: <https://youtu.be/OMFuulUhlxY>  
Studio interview of Julie Smith by Fran Stoddard.
2. Across the Fence. (2020, January 30). *Biosecurity for Farms and Hobbyists*. [Video file]. Retrieved from: <https://www.youtube.com/watch?v=pieAG4-aB0k>  
Studio interview of Julie Smith and Joanna Cummings by Fran Stoddard.
3. Across the Fence. (2019, October 9). *The UVM SEGS Lab: Social Ecological Gaming*. [Video file]. Retrieved from: <https://www.youtube.com/watch?v=6F6es4N97RY&t=232s>  
Video inset by Rebecca Gollin with interviews of Robby Beattie, Julie Smith, Scott Merrill, and Luke Trinity.
4. Across the Fence. (2017, June 5). *2017 Breakfast on the Farm Events*. [Video file]. Retrieved from: <https://www.youtube.com/watch?v=FTSPETvWUMY>  
Studio interview of Julie Smith and Clara Ayer by Judy Simpson.
5. Across the Fence. (2016, June 15). *The 2016 Breakfast on the Farm Events*. [Video file]. Retrieved from: <https://www.youtube.com/watch?v=5EIS-rozwJw&t=201s>  
Studio interview of Julie Smith and Claire Stanley by Judy Simpson.
6. Positively Vermont. (2016, May 31). *Vermont Breakfast on the Farm*. [Video file]. Retrieved from: <https://www.youtube.com/watch?v=dyNhqJwjEvE>  
Studio interview of Julie Smith and Sid Vander Wey by Dennis McMahon.
7. Across the Fence. (2015, July 28). *How Cows Learn with Expert Don Hoglund*. [Video file]. Retrieved from: <https://www.youtube.com/watch?v=vx9LRTk84nM&t=160s>  
Studio interview of Don Hoglund, Rachel Gilker, and Julie Smith by Will Mikell.
8. Across the Fence. (2015, January 29). *Dairy Stockmanship and Low-stress Handling*. [Video file]. Retrieved from: <https://www.youtube.com/watch?v=S6wPkH8ZVf8&t=7s>  
Studio interview of Don Hoglund, Rachel Gilker, and Julie Smith by Will Mikell.
9. Across the Fence. (2014, September 30). *UVM Extension and Undergraduate Research: A Partnership in Education*. [Video file]. Retrieved from: <https://www.youtube.com/watch?v=Benimc3QDIQ>  
Studio interview of Julie Smith and Mia Cosentino; on site interview of Anje DeGraff, Mia Cosentino, and Stephanie Bronsther by Judy Simpson.
10. Across the Fence. (2013, October 1). *Advocating for Agriculture: The Vermont Dairy Industry Association and the Vermont Feed Dealers & Manufacturer's Association (Part Two)*. [Video file]. Retrieved from: <https://www.youtube.com/watch?v=3w5B2ly56Q8>  
On site interview of Julie Smith and Trent Loos by Judy Simpson.

11. Across the Fence. (2013, September 30). *Advocating for Agriculture: The Vermont Dairy Industry Association and the Vermont Feed Dealers & Manufacturer's Association (Part One)*. [Video file]. Retrieved from: <https://www.youtube.com/watch?v=yMAo1JOZcB4>  
On site interview of Julie Smith and Michele Payn-Knoper by Judy Simpson.
12. Across the Fence. (2012, September 19). *Farm Safety and Health (Part I): Planning and Preparedness*. Studio interview of Julie Smith and Robert Schell.
13. Across the Fence. (2012, May 22). *Developing and Implementing a Community-wide Biosecurity Plan*. Studio interview of Julie Smith.
14. Across the Fence. (2011, August 9). *Preparing Our Communities for an Animal Disease Emergency*. Studio interview of S. Ellen Rowe and Julie Smith.
15. Across the Fence. (2010, August 30). *Dairy Farm of the Year*. Studio interview of Alan Curler, and Julie Smith.
16. Across the Fence. (2010, July 13). *Local Emergency Plans: Expect the Best, Prepare for the Worst*. Studio interview of Julie Smith.
17. Across the Fence. (2009, March 9). *Security and Disaster Preparedness on and off Vermont Farms*. Studio interview of Julie Smith.
18. Across the Fence. (2007, September 4). *Research on Ag Testing*. Studio interview of Julie Smith.
19. Across the Fence. (2007, August 28). *Vermont's Animal Health*. Studio interview of Julie Smith.
20. Across the Fence. (2003, August 21). *On the Farm: Biosecurity*. Studio interview of Julie Smith.

### Media interviews

1. Martin, Alex. (2022, June 1). How do you communicate in a crisis? [Panel] *Seed Speaks*. <https://www.youtube.com/watch?v=5zS6ooOMICo>  
Article at <https://seedworld.com/plan-ahead-to-stay-ahead-of-a-crisis/>
2. Post, Paul. (2020, May 1). New website promotes biosecurity on farms. *Lancaster Farmer*. [https://www.lancasterfarming.com/news/northern\\_edition/new-website-promotes-biosecurity-on-farms/article\\_9d44838c-fdd3-58da-92ea-638fbd6a198c.html](https://www.lancasterfarming.com/news/northern_edition/new-website-promotes-biosecurity-on-farms/article_9d44838c-fdd3-58da-92ea-638fbd6a198c.html)
3. Dave Gram Show. (2020, February 20). Seeds to Society: Farm biosecurity. *WDEV*. Available at: <http://tun.in/tjC8xd>
4. Cahill, Dale and Darcy. (2016, July 11). Serving breakfast on a dairy farm to hundreds takes many hands. *Farming* (Online).
5. Cutts, Emily. (2016, April 17). Benefit planned in farmer's honor. *Barre Montpelier Times Argus Online*.
6. Brandt, Stacey. (2015, August 24). Seconds of summer: First annual breakfast on the farm. *Seven Days Online*. <http://www.sevendaysvt.com/BiteClub/archives/2015/08/24/seconds-of-summer-first-annual-breakfast-on-the-farm>
7. Henke, Jodi. (2014, November 24). Keep your boots clean. *Living the Country Life* (now *Successful Farming Radio*). <https://www.agriculture.com/podcast/successful-farming-radio-podcast/keep-your-boots-clean>
8. Weinstock, David and Curt Harler. (2014, July). Quality assurance: How to beat mastitis. *Farming Magazine*.
9. Simpson, Judy. (2011, September 26). Vt Dept of Health, UVM providing farmers protection equipment [Interview of Jeff Senesac and Julie Smith]. *WCAX*.
10. Suozzo, Andrea. (2011, September 22). Dairy forum deals with infectious disease. *Addison County Independent*.
11. Suozzo, Andrea. (2011, July 4). Local farms prepped for emergencies. *Addison County Independent*.
12. Weiss-Tisman, Howard. (2011, March 8). Got change? National dairy report sent to USDA for approval. *Brattleboro Reformer*.
13. Morning Show. (2010, June 24). *WVMT AM620*.
14. Vermont Edition. (2010, May 25). *VPR*.

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## PROFESSIONAL SERVICE

### Professional societies

- World Animal Biosecurity Association, organizing committee member, 2021 – present
- American Veterinary Medical Association Food Safety Advisory Committee, American Association of Extension Veterinarians Alternate Representative, appointed November 2019
- National Institute for Animal Agriculture Emerging Diseases Council (renamed Global Animal Health and Emerging Diseases in 2018), co-chair, 2017 – present; Foot-and-Mouth Disease Symposium, Steering Committee co-chair, 2012 – 2013
- US Animal Health Association Committee on Animal Emergency Management, member, 2005 – present
- Extension Disaster Education Network (EDEN), Agriculture and Natural Resources Committee member, 2018 – present; Agrosecurity Workshop, participant, 2017; Exercise Group, 2011 – 2016; S-CAPE Advisory Board, 2011 – 2013; eXtension agrosecurity content team member, 2010 – 2016; eXtension biosecurity content team leader, 2010 – 2012; Agrosecurity Committee, chair, 2012 – 2013; co-chair, 2010 – 2012; member, 2005 – 2016; Professional Development Committee, member, 2009 – 2016; Development Committee, member, 2007 – 2008; Regional Animal Agrosecurity Conference Planning committee member, 2007
- American Association of Extension Veterinarians, president-elect 2012 – 2013, 2014 – 2015, president 2013 – 2014, 2015 – 2016
- Dairy Practices Council, Board member, 2013 – 2016
- National Association of County Agricultural Agents, Public Relations Committee, Northeast Regional Vice-Chair, 2013 – 2015; Outstanding Young Farmer, Chair of State Competition, 2005 – 2016
- Professional Dairy Heifer Growers Association, National Calf and Heifer Conference planning committee and local chair 2007
- American Dairy Science Association Production Committee: Animal Behavior and Well-being, member, 2005 – 2008, Symposium Chair 2008

### Grant review

- USDA National Institute for Food and Agricultural Proposal Review Panelist 2022
- USDA APHIS NADPRP Proposal Review Panelist 2021
- UVM Food Systems Metrics and Data Integration Awards Reviewer, 2020
- USDA National Institute for Food and Agricultural Proposal Review Panelist 2019
- USDA National Institute for Food and Agriculture Proposal Review Panelist 2015
- NSF Disaster Resilience Proposal Review Panelist 2010

### Journal review

- Frontiers in Veterinary Science, *ad hoc* reviewer since 2021, Co-Editor of Special Topic, 2022
- Animals, *ad hoc* reviewer since 2021
- PLOS One, *ad hoc* reviewer since 2017
- Journal of the National Association of County Agriculture Agents, reviewer 2011 – 2016
- Journal of Dairy Science, Editorial Board, Nutrition, Feeding and Calves section, appointed January 2004, *ad hoc* reviewer 2002 – present

### Other

- Farmers Assuring Responsible Management Biosecurity Task Force, member, May 2021 – present
- USDA National Institute for Food and Agriculture Animal Health Webinar Discussion Leader 2016

- Academic Program Review, site visit team member, B.S. Animal Science, SUNY Cobleskill, Spring 2016
- Center for Food Integrity, Dairy Video Review Panelist, 2012 – present; reviewed video in 2019

### **Community**

- Vermont Farm Show, Trustee (or alternate) representing Vermont Dairy Industry Association periodically since 2005 (4 hours per year); Secretary, 2022–present (2-10 hours per month)
- USDA APHIS Veterinary Services Training and Exercise Program (VS TEP) Packer Exercise, tier 2 participant representing Extension, 2020
- Vermont 4-H Horse Show, checked in animals, 2019
- Ag Career Day, committee member, 2017 – present, annual event initially held in 2018
- Chittenden County Farm Bureau President, 2015 – 2018
- Vermont Breakfast on the Farm, steering committee, 2015 – 2017; volunteer, 2017 – present
- DAIReXNET (eXtension dairy community of practice) domain leader, animal health, 2013 – 2018
- Vermont Designated Johnes Coordinator, 2013 – 2020
- Animal Agriculture Alert Network, Extension point-of-contact, 2011 – 2016
- Secure Milk Supply projects core advisory group and work groups, 2009 – 2014, 2016 – 2017
- Extension Disaster Education Network (EDEN), Vermont point-of-contact, 2009 – 2016; delegate, 2004 – 2009
- Vermont Dairy Producers Conference, planning committee member, 2008 – 2013
- State Support Function-11 (SSF-11), UVM Extension representative, 2005 – 2016
- Bovine Alliance on Management and Nutrition, Board member, 2003 – 2007
- Vermont Johnes Advisory Committee, member, 2002 – 2020
- Vermont Farm Show, Trustee (or alternate) representing VDIA, Secretary, 2022 – present
- Vermont Dairy Industry Association (VDIA), President, 2008 – 2014; Vice-President, 2006 – 2008; Treasurer/Secretary, 2004 – 2006; Board member, 2002 – 2014
- Mid-Atlantic Consortium Regional Dairy Extension In-Service Planning Committee, member, 2002 – 2008, 2015
- Dairy Farmer Discussion Group, facilitator, 2002 – 2005

### **Union**

- United Academics CALS Delegate, 2017 – present

### **University-wide**

- Institutional Animal Care and Use Committee, alternate for university veterinarian, Fall 2017 – present
- Faculty Senate Financial and Physical Planning Committee, 2012 – 2016
- Faculty Senate Educational and Research Technologies Committee, 2008 – 2011
- Faculty Senate, Extension representative, 3-year term, 2005 – 2008
- Search Committee for Provost and Senior Vice President, member, Fall 2005 – Spring 2006

### **College-wide**

- Food Systems Graduate Program, member, Student Development and Evaluation Committee member, 2018 – present
- CALS Equity, Diversity and Inclusion Committee, 2023 – present
- CALS Academic Awards Committee, 2012 – 2015; 2018 – 2021; Chair, 2014 – 2015
- CALS Orientation, June 2017
- CALS Open House, November 2017, November 2021
- CALS Admitted Student Visit Days, April 2016, April 2017, March 2018, April 2019, April 2020

- CALS Land Use Committee, 2011 – 2012
- CALS International Committee, 2007 – 2016
- Extension Faculty Organization, Secretary, 2004 – 2006; Vice-Presiding Officer, 2006 – 2008

### **Departmental**

- Search Committee for ASCI lecturer position, co-chair, Fall 2022 – Spring 2023
  - Department Equity, Diversity, and Inclusion Committee, chair, 2022 – present
  - Department Graduate Committee, member, 2003 – present
  - Search Committee for ASCI faculty position, co-chair, Fall 2017 – Spring 2018 and Fall 2021 – Spring 2022
  - Department Chair Five-Year Review Committee, member, Spring 2014
  - Search Committee for ASCI faculty position in biotechnology, Fall 2010 – Spring 2011
  - Department Dairy Research Committee, member, 2002 – 2007
  - Search Committee for ASCI faculty position in nutrition, member, Fall 2005 – Spring 2006
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### **PROFESSIONAL SOCIETY MEMBERSHIPS**

- Conference of Research Workers in Animal Disease, 2012, 2016 – present
  - National Institute for Animal Agriculture, 2008 – present
  - Dairy Calf and Heifer Association (formerly Professional Dairy Heifer Growers Association), 2006 – present
  - United States Animal Health Association, 2005 – present
  - American Association of Extension Veterinarians, 2004 – present
  - National Association of County Agricultural Agents, 2003 – 2016
  - American Society of Animal Science, 2002 – present
  - Council for Agricultural Science and Technology, 2001 – 2004, 2014 – present
  - American Dairy Science Association, 1997 – present
  - American Veterinary Medical Association, 1994 – present
-