

Leveraging our current tools and skills

Assisting researchers in locating grant funding opportunities

Allison Langham-Putrow, Julie Kelly, and Jody Kempf
April 27, 2018

Subscription grant funding search tools

Pivot (Proquest, now Cayuse)

“the most comprehensive, editorially maintained database of funding opportunities worth an estimated \$44 billion”

Sponsored Programs Information Network (SPIN) (infoED)

“World’s largest database of sponsored funding opportunities”

Foundation Directory Online

“The most exhaustive and up-to-date knowledge and insight on the social sector to fuel any fundraising mission”

Associations Unlimited, DonorSearch.net, Funding Institutional, Grant Forward, GrantSelect, Illinois Research Information Service (IRIS), ResearchResearch

Free alternatives

Foundation Center

Good for if you have the name of a foundation and want to know more about it

GrantWatch.com

Free weekly email listing grants posted in the last week

Mendeley Funding

Opportunities from 2,875 funders (mostly foundations)

Grants.gov

A place to look if you have something specific to apply for



~~Free~~ No-additional-cost alternatives

Data from publications

Scopus

Dimensions

Web of Science

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Clinical Infectious Diseases
Volume 66, Issue 6, 5 March 2018, Pages 877-885

Salmonella enterica Serotype 4,[5],12:i:-in Swine in the United States Midwest: An Emerging Multidrug-Resistant Clade (Article)

Elnelave, E.¹, Hong, S.², Mather, A.E.³, Boerud, D.⁴, Taylor, A.J.⁴, Lappi, V.⁴, Johnson, T.J.⁴, Vannucci, F.⁴, Davies, P.⁴, Hedberg, C.¹, Perez, A.⁴, Alvarez, J.⁴

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Abstract

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Background. Salmonella 4,[5],12:i:-, a worldwide emerging pathogen that causes many food-borne outbreaks mostly attributed to pig and pig products, is expanding in the United States. Whole-genome sequencing was applied to conduct multiple comparisons of 659 S. 4,[5],12:i:- and 325 Salmonella Typhimurium from different sources and locations (i.e. the United States and Europe) to assess their genetic heterogeneity, with a focus on strains recovered from swine in the US Midwest. In addition, the presence of resistance genes and other virulence factors was detected and the antimicrobial resistance phenotypes of 50 and 22 isolates of livestock and human origin, respectively, was determined. Results. The S. 4,[5],12:i:- strains formed two main clades regardless of their source and geographic origin. Most (84%) of the US isolates recovered in 2014-2016, including those (48 of 51) recovered from swine in the US Midwest, were part of an emerging clade. In this clade, multiple genotypic resistance determinants were predominant, including resistance against ampicillin, streptomycin, sulfonamides, and tetracyclines. Phenotypic resistance to enrofloxacin (11 of 50) and cefixime (9 of 50) was found in conjunction with the presence of plasmid-mediated resistance genes (qnrB19/qnrB2/qnrS1 and bla_{CMX-2}/bla_{NDM-1}, respectively). Higher similarity was also found between S. 4,[5],12:i:- from the emerging clade and S. Typhimurium from Europe than with S. Typhimurium from the United States. Conclusions. Salmonella 4,[5],12:i:- currently circulating in swine in the US Midwest are likely to be part of an emerging multidrug-resistant clade first reported in Europe, and can carry plasmid-mediated resistance genes that may be transmitted horizontally to other bacteria, and thus may represent a public health concern. © 2017 The Author(s).

Author keywords

AMR MDR Monophasic Pig Quinolones

Indexed keywords

EMTREE drug terms:

ampicillin cefixime ceftriaxone ciprofloxacin enrofloxacin streptomycin sulfonamide tetracycline derivative

EMTREE medical terms:

antibiotic resistance Article genetic heterogeneity livestock nonhuman phylogenetic tree priority journal Salmonella enterica Salmonella enterica serovar Typhimurium single nucleotide polymorphism whole genome sequencing

Chemicals and CAS Registry numbers

ampicillin, 69-52-3, 69-52-3; cefixime, 17482-2, 74083-13-9, 94586-58-0; cefixime, 103980-44-5, 104010-37-9, 80370-57-6; ceftriaxone, 73384-59-5, 74578-69-1; ciprofloxacin, 85721-33-1; enrofloxacin, 93106-60-6; streptomycin, 57-92-1

Funding details

Funding number	Funding sponsor	Acronym	Funding opportunities
	National Institute of Food and Agriculture	NIFA	See opportunities by NIFA
BB/M014088/1	Biotechnology and Biological Sciences Research Council	BBSRC	See opportunities by BBSRC

Metrics

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Phenotypic and molecular characterization of human Salmonella enterica serovar 4,[5],12:i:- Isolates in Slovakia
Majtan, V., Majtanova, L., Majtan, J.
(2012) Current Microbiology

Molecular characterization of the salmonella enterica serotype typhimurium and serotype 4,5,12:i:- Reveals distinct genetic deletion patterns
Huey, L., Pornruangwong, S., Pulsritam, C.
(2014) Foodborne Pathogens and Disease

A rapid and sensitive method to identify and differentiate Salmonella enterica serotype Typhimurium and Salmonella enterica serotype 4,5,12:i:- by combining traditional serotyping and multiplex polymerase chain reaction
Barco, L., Lettini, A.A., Ramon, E.
(2012) Foodborne Pathogens and Disease

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Funding details

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	National Institute of Food and Agriculture	NIFA	See opportunities by NIFA
BB/M014088/1	Biotechnology and Biological Sciences Research Council	BBSRC	See opportunities by BBSRC
MIN-62-091	International Fund for Animal Welfare	IFAW	See opportunities by IFAW
	University of Minnesota	UM	See opportunities by UM



Funding text

Financial support. This work was supported by the Global Food Venture–MnDrive initiative, the USDA National Institute of Food and Agriculture, (Animal Health Formula Fund project MIN-62-091) and the Swine Disease Eradication Center at the University of Minnesota. In addition, the Biotechnology and Biological Sciences Research Council (fellowship BB/M014088/1 to A. E. M.).

ISSN: 10584838

CODEN: CIDIE

Source Type: Journal

Original language: English

DOI: 10.1093/cid/cix909

Document Type: Article

Publisher: Oxford University Press

Mendeley Research Funding



Funder

National Institute of Food and Agriculture

District of Columbia | United States

36 opportunities

Search by keyword

E.g. brain

Refine results

Research area

Filter by name of research area

- Agricultural and Biological Sciences 2
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- Computer Science 1
- Environmental Science 5
- Psychology 1

36 funding opportunities

Last updated

Special research grants program: Aquaculture research (aqua)

Deadline: May 14th 2018 • Amount: Up to 300,000 USD with total funding of 1,200,000 USD • Funding type: Research and publications

Favorite

46 days left to apply

Veterinary Services Grant Program (VSGP)

Deadline: May 17th 2018 • Amount: Up to 1,600,000 USD with total funding of 2,400,000 USD • Funding type: Programs and projects

Favorite

49 days left to apply

Dimensions

Publication - Article

Salmonella enterica Serotype 4,[5],12:i- in Swine in the United States Midwest: An Emerging Multidrug-Resistant Clade.

Clinical Infectious Diseases, 66(6), 877-885, 2018

<https://doi.org/10.1093/cid/cix909>

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Abstract

Background: Salmonella 4,[5],12:i-, a worldwide emerging pathogen that causes many food-borne outbreaks mostly attributed to pig and pig products, is expanding in the United States.

Methods: Whole-genome sequencing was applied to conduct multiple comparisons of 659 S. 4,[5],12:i- and 325 Salmonella Typhimurium from different sources and locations (ie, the United States and Europe) to assess their genetic heterogeneity, with a focus on strains recovered from swine in the US Midwest. In addition, the presence of resistance genes and other virulence factors was detected and the antimicrobial resistance phenotypes of 50 and 22 isolates of livestock and human origin, respectively, was determined.

Results: The S. 4,5,12:i- strains formed two main clades regardless of their source and geographic origin. Most (84%) of the US isolates recovered in 2014-2016, including those (48 of 51) recovered

[more](#)

Publication references - 33

Sorted by: Date

Identification of a Plasmid-Mediated Quinolone Resistance Gene in Salmonella Isolates from Texas Dairy Farm Environmental Samples

K. J. Cummings, L. D. Rodriguez-Rivera, K. N. Norman, N. Ohta, H. M. Scott

2017, Journal of Veterinary Medicine Series B - Article

2 1

Whole-Genome Sequencing for Detecting Antimicrobial Resistance in Nontyphoidal Salmonella.

Patrick F McDermott, Gregory H Tyson, Claudine Kabera, Yuansha Chen, Cong Li, Jason P Folster, Sherry L Ayers, Claudia Lam, Heather P Tate, Shaohua Zhao

2016, Antimicrobial Agents and Chemotherapy - Article

31 21

Interactive tree of life (iTOL) v3: an online tool for the display and annotation of phylogenetic and other trees

Ivica Letunic, Peer Bork

2016, Nucleic Acids Research - Article

433 5

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Research Categories

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FOR

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Web of Science

Funding Agencies data field from acknowledgements

Science Citation Index Expanded since 2008

Social Science Citation Index since 2015

Arts & Humanities Citation Index not indexed

A subscription to Science Citation Index Expanded™ is required to search the Funding Agency field.

https://images.webofknowledge.com/images/help/WOS/hs_funding_agency.html

Web of Science

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Results: 575
(from Web of Science Core Collection)

You searched for: WC=(veterinary sciences) AND WC=(INFECTIOUS DISEASES) AND TS=(swine OR pig OR pork) ...[More](#)

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- Hot Papers in Field (2)
- Open Access (134)
- Associated Data (4)

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Publication Years

- 2017 (102)
- 2016 (69)
- 2018 (66)
- 2012 (49)
- 2010 (46)

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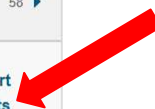
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- 1. Identification and genomic characterization of the emerging Senecavirus A in southeast China, 2017**
By: Zhang, X.; Xiao, J.; Ba, L.; et al.
TRANSBOUNDARY AND EMERGING DISEASES Volume: 65 Issue: 2 Pages: 297-302 Published: APR 2018
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Times Cited: 0
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- 2. Novel bovine-associated pVAPN plasmid type in Rhodococcus equi identified from lymph nodes of slaughtered cattle and lungs of people living with HIV/AIDS**
By: Ribeiro, M. G.; Lara, G. H. B.; da Silva, P.; et al.
TRANSBOUNDARY AND EMERGING DISEASES Volume: 65 Issue: 2 Pages: 321-326 Published: APR 2018
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- 3. Presence of Torque teno sus virus 1 and 2 in porcine circovirus 3-positive pigs**
By: Zheng, S.; Shi, J.; Wu, X.; et al.
TRANSBOUNDARY AND EMERGING DISEASES Volume: 65 Issue: 2 Pages: 327-330 Published: APR 2018
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- 4. Viruses associated with congenital tremor and high lethality in piglets**
By: Possatti, F.; Headley, S. A.; Leme, R. A.; et al.
TRANSBOUNDARY AND EMERGING DISEASES Volume: 65 Issue: 2 Pages: 331-337 Published: APR 2018
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Times Cited: 0
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Results

Articles from health sciences, life sciences, and physical sciences and engineering had the most funding information (30 to 70% of articles)

For the 12 searches:

Between 180 and 2355 article results

Between 91 and 1855 funding agencies

NATIONAL PORK BOARD NPB

NATIONAL PORK BOARD CHECKOFF DOLLARS

NATIONAL PORK BOARD USA NPB

NATIONAL PORK CHECKOFF

PORK CHECKOFF FUNDS DISTRIBUTED THROUGH THE NATIONAL PORK BOARD DES MOINES IOWA

PORK CHECKOFF FUNDS THROUGH THE NATIONAL PORK BOARD

Places we might not have thought to look

Swine production/swine health: Iowa Pork Producers Association, Kansas Bioscience Authority, National Pork Board, Swine Health Information Center, Wildlife Conservation Society

Green chemistry/nanoscience: Arnold and Mabel Beckman Foundation, Foundation Fighting Blindness, Kavli Foundation, Rebecca Q Morgan Foundation, WM Keck Foundation

Turfgrass: US Golf Association, Heart of American Golf Course Superintendents Association, Midwest Regional Turf Foundation, National Turfgrass Evaluation Program

Agronomy/plant genetics: Washington Grain Commission, Trans Research Dream Fund, Synbreed, Leverhulme Trust, Texas Corn Producers Board

Conclusions

Looking for funding information in literature databases:

Web of Science allows easy generation of lists of agencies that fund particular fields. But it's most useful for the sciences.

Scopus has better information for arts and humanities publications, but it doesn't allow batch processing.

If you don't have a subscription database with funding information, you can use Dimensions. But it's also science-focused and doesn't allow batch processing.

Or, come visit us in the Twin Cities (or Duluth or Morris or Crookston)!

grants.gov

Tagline: “Find. Apply. Succeed.”

Find...?

- No list of keywords

- All 27 NIH centers and institutes are in one group

- All NSF directorates are in one group

- (All NEH opportunities are in one group too, but there are only 8 at the moment)

Possible techniques

- Keyword search for center/institute/directorate

- Search using CFDA ranges (from the [CFDA catalog](#) or [NSF website](#))



A bit more about Dimensions

89 million publication records

PubMed, Europe PMC, CrossRef

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