

Zoological Record

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Date coverage 1864 - present

Update frequency Monthly

Geographic coverage International

Document types Journal articles, conference material, books and monographs

Sources Approximately 5,000 journals from over 100 countries, plus books, reviews, conferences and other non-serial publications.

Publisher

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DNA segments of African Swine Fever Virus detected for the first time in hard ticks from sheep and bovines

Chen, Ze; Xu, Xiaofeng; Wang, Yufeng; Bei Jinlong; Jin Xiufeng; et al
Applied Acarology 24.1: 180-184. (January 2019)

Highlighting: [Off](#) | [Single](#) | [Multi](#)

AB

Abstract (summary) [Translate](#)

In this study, we detected African Swine Fever Virus (ASFV) in Dermacentor (Ixodidae) from sheep and bovines using small RNA sequencing. To validate this result, a 235-bp DNA segment was detected in a number of DNA samples from *D. silvarum* and sheep blood. This 235-bp segment had an identity of 99% to a 235-bp DNA segment of ASFV and contained three single nucleotide mutations (C38T, C76T and A108C). C38T, resulting in a single amino acid mutation G66D, suggests the existence of a new ASFV strain, which is different from all reported ASFV strains in the NCBI GenBank database and the ASFV strain (GenBank: MH713612.1) reported in China in 2018. To further confirm the existence of ASFV in Dermacentor ticks, three DNA segments of ASFV were detected in *D. niveus* females from bovines and their first generation ticks reared in our lab. These results also proved that transovarian transmission of ASFV occurs in hard ticks. This study revealed for the first time that ASFV has a wider range of hosts (e.g. sheep and bovines) and vectors (e.g. hard ticks), beyond the well-known Suidae family and Argasidae (soft ticks). Our findings pave the way toward further studies on ASFV transmission and the development of prevention and control measures.

SU

Indexing (details) [Cite](#)

Subject

[Parasites diseases and disorders;](#)
[Hosts;](#)
[Transmission;](#)
[Dermacentor;](#)
[Mammalian hosts;](#)
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[molecular detection;](#)
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[Dermacentor \(Acari\)\[Parasite \];](#)
[Arachnids;](#)
[Arthropods;](#)
[Chelicerates;](#)
[Invertebrates](#)

TI	Title	DNA segments of African Swine Fever Virus detected for the first time in hard ticks from sheep and bovines
AU AUFN,AULN	Author	Chen, Ze ¹ ; Xu, Xiaofeng; Wang, Yufeng; Bei Jinlong; Jin Xiufeng; Dou Weihao; Ji Haishuo; Duan Yujie; Yang Xiaojun{a}; Gao, Shan
		¹ yangxj86@163.com
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	Database	Zoological Record

Search fields

Field Name	Field Code	Example	Description and Notes
Abstract	AB	ab("small rna sequencing") ab(rna n/1 sequenc*)	Use adjacency and/or Boolean operators to narrow or broaden your search and double quotes to search for a precise phrase.
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Accession number	AN	an(ZOOR15503018755)	A unique document identification number assigned by the information provider.
All fields	ALL	all(asfv OR "african swine fever")	Searches all fields. Use proximity and/or Boolean operators to narrow search results.
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Author affiliation	AF	af(parasitologie AND hannover) af(germany)	Includes as much data as is available in the original document, such as department, organization, address, city, state, country, author email, etc.
Document title			See Title
Document type ¹	DTYPE	dtype(article) dtype("conference paper")	Most document types in Zoological Record are journal articles, but a small number of other types are also available, notably book chapters and conference papers.
First available	FAV	fav(20190222)	Indicates the first time a document was loaded on Dialog. It will not change regardless of how many times the record is subsequently reloaded, as long as the accession number remains the same.
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ISSN	ISSN	issn(13621971) issn(1362-1971)	The ISSN is also searchable via the Look Up Citation tool.
Issue	ISS	iss(1)	The issue number is also searchable via the Look Up Citation tool.
Journal title	JN	jn("systematic and applied acarology")	Full journal name (periodical title); Look-Up list available under Publication title.

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Publication date	PD	pd(2019) pd(201901) pd(>20180415) pd(20190101-20191231)	This is the publication date of the article. Date range searching is supported.
Publication title ¹	PUB	pub.exact("systematic and applied acarology") pub("diabetes obes metab")	The publication title. Both the full and abbreviated form of the journal name are searchable.
Publication type ¹	PSTYPE	pstype(book)	Most documents in Embase are from journals, but a small number of other publication types are available too.
Publication year	YR	yr(2020) yr(2013-2019)	Date range searching is supported.
Source information	SRC	src("acarology" and 2019)	
Subject ¹	SU	su(dermacentor)	Zoological Record subject terms can also be selected and added to the search from the thesaurus
Title	TI	ti(ticks AND sheep)	This is the title of the article. TI searches the Title, Alternate Title and Subtitle, when available.
Title only	TIO	tio(ticks and (sheep or bovines))	TIO searches the Title only, not Subtitle or Alternate title.
Alternate title	OTI	oti(belgische spinnen)	The alternate title is usually the original language title of a non-English article.
Updates	UD	ud(20190222)	The date(s) the record was loaded as a result of an update provided by the supplier.
Volume of publication	VO	vo(24)	Also searchable via the Look Up Citation tool.

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