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

AU Chen, Ze; Xu, Xiaofeng; Wang, Yufeng; Bei Jinlong; Jin Xiufeng; et al

PUB [Applied Acarology](#) 24.1: 180-184. (January 2019)

Highlighting: Off | Single | Multi

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.

Indexing (details)

SU Subject

Parasites diseases and disorders;
Hosts;
Transmission;
Dermacentor;
Mammalian hosts;
Ovis aries;
molecular detection;
Bovinae;
Transmission of viruses;
African swine fever virus;
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	Author	Chen, Ze ¹ ; Xu, Xiaofeng; Wang, Yufeng; Bei Jinlong; Jin Xiufeng; Dou Weihao; Ji Haishuo; Duan Yujie; Yang Xiaojun{a}; Gao, Shan
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Author ¹ Author First Name Author Last Name	AU AUFN AULN	au(barrett chris) aufn(chris) aufn(barrett)	Names are captured as they appear in the source, so you will sometimes find authors with surname and initial(s), sometimes with surname and full first name(s).
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Language	LA	la(english)	The language in which the document was originally published.
Pagination	PG	pg(180-184)	The start page, end page and range of pages are searchable with PG
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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