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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)

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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;](#)
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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 |
| LA | Language | English |
| DTYPE | Document type | Journal Article |
| PUB | Publication title | Systematic and Applied Acarology |
| | Source details | Systematic and Applied Acarology 24(1), Jan 2019: 180-184 |
| VO | Volume | 24 |
| ISS | Issue | 1 |
| PG | Pagination | 180-184 |
| | Page count | 5 |
| ISSN | ISSN | 1362-1971 |
| PD, YR | Publication date | January 2019 |
| AN | Accession number | ZOOR15503018755 |
| | Document URL | https://dialog.proquest.com/professional/docview/2184551016?accountid=174335 |
| FAV | First available | 2019-02-22 |
| UD | Updates | 2019-02-22 |
| | Database | Zoological Record |

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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. |
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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. |
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