Complete canine circovirus genome sequence as a diagnostic and therapeutic tool

Technology #cu12262

Canine circovirus has been identified in dogs with health problems such as hemorrhage and vasculitis, indicating that this virus may cause sickness and death. This technology presents the complete gene sequence of the first canine circovirus, which can be used to develop both diagnostic and therapeutic tools. Genetic tests based on the circovirus genome may be used for rapid diagnostics. In addition, the genome can also aid in the development of targeted therapeutics and vaccines against circovirus.

The canine circovirus genome enables more direct development of diagnostics and therapeutics to improve animal health

This is the first canine circovirus sequenced. The circovirus may also be associated with additional diseases in dogs, expanding the development of diagnostics and therapeutics to other areas. Since circoviruses have been identified in several mammals and birds, the canine circovirus sequence may also have significant overlap with other types of circoviruses and provide insights to the development of diagnostic and therapeutic tools for other animals. These features offer both flexibility for development now and promise for additional applications as new discoveries concerning this new class of virus are made.

Lead Inventor:

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Applications:

- Development of diagnostics for canine circovirus.
- Development of a vaccine or other targeted therapeutics against canine circovirus.
- Development of diagnostics and therapeutics for other circoviruses.

Advantages:

- As the first canine circovirus, the sequence will likely have significant overlap with new circoviruses.
The canine circovirus sequence can be used both as a diagnostic and as a therapeutic tool. Circoviruses are associated with several canine diseases.

**Patent information:**
Patent Pending
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**Related Publications:**

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