based on the consideration that *R. aeschlimannii* is usually found in ticks of the genus *Hyalomma*, primarily in *H. marginatum* (1). Therefore, 1 of the PCRs amplified a fragment of the *Hyalomma* tick mitochondrial cytochrome oxidase I gene and the other a fragment of the internal transcribed spacer 2 (2).

The ITS2 fragment displayed the highest (99%) similarity with the respective fragment of *H. marginatum*, *H. dromedarii*, *H. truncatum*, and *H. lusitanicum*. Cytochrome oxidase subunit I fragment was 99% identical to *H. marginatum*, *H. dromedarii*, and *H. truncatum*. The 16S RNA fragment was 98% identical to *H. marginatum*; its identity to the second closest sequence belonging to *H. lusitanicum* was 96%.

Earlier, *R. aeschlimannii* had been detected in sub-Saharan and North Africa, southern Europe, and southwestern Russia (8). Therefore, the area of Zerbst, the middle of Germany, marks the northernmost point of *R. aeschlimannii* detection.

*Hyalomma* spp. ticks are distributed in Africa, the Mediterranean climatic zone of southern Europe, and in Asia. The only documented *Hyalomma* spp. tick in Germany was found on a human in the southern part of the country (Lake Constance area) in May 2006, but the possibility of tick transportation from Spain was not ruled out (9).

*Acrocephalus scirpaceus* birds are migratory birds and live in central Europe from April to October and winter in sub-Saharan Africa in the region inhabited by *Hyalomma* spp. ticks. Therefore, it is reasonable to suggest that the *Hyalomma* spp. ticks that we examined had been transported by the birds from Africa. The fact that a randomly caught bird was infested with *R. aeschlimannii*–infected ticks is suggestive of the intensive stream of new pathogens transported through Europe by migrating birds. The first possible implication of a bird as a vector of infected ticks was proposed for *Hyalomma* spp. ticks infected by *R. sibirica mongolitimonae* (10). Until now, the role of migrating birds in distribution of tick-borne pathogens has been poorly understood (9). The changing climate and environment in central Europe may facilitate the establishment of pathogen-carrying tick species transported by birds. These new pathogens can be directly transmitted from infected birds to the species of the local fauna.

**Acknowledgment**

We thank Yuliya Dobrydneva for critical reading of the manuscript.

**References**


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which prompted the immigration of thousands of persons from Ceará to the Amazon region, and a devastating smallpox epidemic, which resulted in the death of >100,000 persons. Later, they returned to the present situation of cutaneous leishmaniasis in Brazil.

I would like to address the role of dogs as reservoirs of *Leishmania (Viannia) braziliensis*. Sousa and Pearson stated that “no animal reservoir other than dogs has been identified in Ceará” and that “a sylvatic reservoir has not been identified for *L. (V) braziliensis* in Ceará and other areas,” concluding that “dogs appear to be the most important reservoir in domestic and peridomestic transmission.”

Conversely, recent studies have indicated that rodents and other small mammals are the primary reservoirs for *L. (V) braziliensis* (2) and that, so far, no strong evidence indicates that dogs could act as reservoirs for this parasite (3,4). The finding of dogs infected by *L. (V) braziliensis* in leishmaniasis-endemic areas is expected because they are susceptible to this parasite and are often exposed to phlebotomine sandflies. However, this finding does not imply that dogs are important reservoirs. Indeed, they represent a poor source of *L. (V) braziliensis* (3). For these reasons, dogs cannot be incriminated as the most important reservoirs in the domestic and peridomestic transmission cycles of *L. (V) braziliensis*.

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DOI: 10.3201/eid1702.091823

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**In Response:** We agree with most points raised by Dantas-Torres (1). However, so far our statement related to the reservoir(s) of *Leishmania (Viannia) braziliensis* (2) is correct for Ceará. Oliveira-Lima (3) conducted a case–control study that definitively incriminated dogs as a reservoir host of *L. (V) braziliensis* in Baturite, Ceará. He showed that infected dogs in households increased the risk for infection with *L. (V) braziliensis* by 3.2-fold among resident children. The risk increased to 6-fold when infected dogs had leishmaniasis-like skin lesions. Additionally, his observations suggested that animals other than dogs might be involved. In another study, Santana (4) examined 272 small mammals (213 rodents and 59 marsupials) in the same area; tissue culture and hamster inoculation showed none to be infected with *L. (V) braziliensis*, although some cultures were contaminated by fungi and bacteria. On the basis of these findings, a sylvatic reservoir for *L. (V) braziliensis* has not been identified in Baturite, Ceará. However, Brandão-Filho et al. found that rodents in Pernambuco State, Brazil, were infected with *L. (V) braziliensis* and stated that they were the primary reservoir (5). We concur with Lainson and Shaw (6) and conclude that information about mammalian reservoirs of *L. (V) braziliensis* is incomplete.

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