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Neglected vector-borne zoonoses in Europe: Into the wild

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Table 1. List of the zoonotic pathogens that are discussed in this review and their known (suspected) vectors and reservoir hosts

Vector borne pathogen	Known (suspected) vectors	Known (suspected) reservoir hosts	Reference
<i>Anaplasma phagocytophilum</i>	<i>Ixodes ricinus</i> (<i>I. hexagonus</i> , <i>I. trianguliceps</i>)	Wild ruminants, (small mammals such as rodents and insectivores; birds)	Stuen et al., 2013a (Bown et al., 2003 and 2011; Silaghi et al., 2012b; Lommano et al., 2014)
Babesia spp.			
<i>Babesia divergens</i>	<i>I. ricinus</i>	Cattle, (red deer)	Zintl et al., 2003
<i>Babesia venatorum</i>	<i>I. ricinus</i>	Roe deer	Herwaldt et al., 2003
<i>Babesia microti</i>	<i>I. ricinus</i>	(rodents)	Gray et al., 2002; Häselbarth et al., 2007
Bartonella spp.			
<i>B. elizabethae</i>	<i>Xenopsylla cheopis</i>	rat	Loftis et al., 2006
<i>B. grahamii</i>	<i>Ctenophthalmus nobilis</i>	bank vole and wild mice	Bown et al., 2004
<i>B. quintana</i>	<i>Pediculus humanus humanus</i> (cat and rodent fleas)	Humans (cats, rodents)	Raoult and Roux, 1999 (Rolain et al., 2003; Mariè et al., 2006)
<i>B. koehlerae</i>	<i>Ctenocephalides felis</i> (rodent fleas)	Cat (rodents)	Avidor et al., 2004 (Mariè et al., 2006)
<i>Leishmania infantum</i>	<i>Phlebotomus ariasi</i> , <i>P. balcanicus</i> , <i>P. kandelakii</i> , <i>P. langeroni</i> <i>P. neglectus</i> , <i>P. perfiliewi</i> , <i>P. perniciosus</i> , <i>P. tobbi</i> .	Canids, lagomorphs and rodents	Alten et al., 2016
Rickettsia spp.			
<i>R. conorii</i>	<i>Rhipicephalus sanguineus</i> (<i>Rh. pusillus</i>)	Lagomorphs	Ruiz-Beltrán et al., 1992

<i>R. slovacca</i>	<i>Dermacentor</i> spp.	Lagomorphs, mice and voles	Reháček et al., 1976, 1978, 1992
<i>R. helvetica</i>	<i>I. ricinus</i>	(Lizards)	De Sousa et al., 2012