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Nota di contenuto	Skin immunity and microbiome / Nathalie Boulanger and Cedric Lenormand -- Arthropods: definition and medical importance / Gerard Duvallat, Nathalie Boulanger and Vincent Robert -- Impact of skin microbiome on attractiveness to arthropod vectors and pathogen transmission / Niels O. Verhulst, Nathalie Boulanger and Jeroen Spitzen -- Arthropod saliva and its role in pathogen transmission: insect saliva / Claudia Demarta-Gatsi, Salaheddine Mecheri and Richard E. Paul -- Tick saliva and its role in pathogen transmission / Sarah Bonnet, Maria Kazimirova, Jennifer Richardson and Ladislav Simo -- Insect-borne pathogens and skin interface: flagellate parasites and skin interface / Natalia Tavares, Lea Castellucci, Camila de Oliveira and Claudia Brodskyn -- Skin and other pathogens: malaria and plague / Pauline Formaglio, Laura Mac-Daniel, Rogerio Amino and Robert Menard -- Insect-borne viruses and host skin interface / Christopher G. Mueller and Van-Mai Cao-Lormeau -- Tick-borne bacteria and host skin interface / Quentin Bernard, Ema Helezen and Nathalie Boulanger -- Tick-borne viruses and host skin interface / Maria Kazimirova, Pavlina Bartikova and Iveta Stibraniova -- Skin and arthropod-borne diseases: applications to vaccine and diagnosis / Laura Mac-Daniel, Rogerio Amino and Robert Menard -- Tools to decipher vector-borne pathogen and host interactions in the skin / Pauline Formaglio, Joppe W. Hovius,

Chetan Aditya, Joana Tavares, Lauren M.K. Mason, Robert Menard, Nathalie Boulanger and Rogerio Amino.

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Sommario/riassunto

"Recent research on skin immunity and the skin microbiome reveals the complexity of the skin and its importance in the development of immunity against arthropod-borne diseases. In diseases such as malaria, borreliosis, leishmaniasis, trypanosomiasis, etc., the skin interface has been shown as an essential site for pathogens to hide from the immune system, and as a potential site of persistence. Only very few vaccines have been successfully developed so far against these diseases, likely because of an insufficient understanding on the development of skin immunity against pathogens. Skin and Arthropod Vectors expands our knowledge on the role of the skin interface during the transmission of arthropod-borne diseases and particularly its immunity. This work may support researchers who strive for developing more efficient diagnostic tools and vaccines. It also gives scientists and advanced students working in related areas a better insight on how humans and animals are attractive to arthropods to develop better repellents, or to set up transgenic arthropods."--

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