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Dr Le Grand is particularly interested in host-pathogen interactions and the prevention of viral transmission and vaccines, in particular. He is currently developing programs of mucosal viral transmission, early immune response to natural infections and characterization of early cellular and molecular events at sites of vaccine injection.

His work has generated more than 110 referenced peer-reviewed publications. He has worked as an expert, providing consulting services to several French national research agencies, the French government, the European TRANSVAC program, the Bill and Melinda Gates Foundation and the WHO.