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Vaccinopolis
University of Antwerp

Enabling the Evaluation of COVID-19 Vaccines with Correlates of Protection Vaccinopolis University of Antwerp, Belgium February 16 - 17, 2023



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Dr. Montefiori's major research interests are viral immunology and HIV and COVID-19 vaccine development, with a special emphasis on neutralizing antibodies. He directs a large vaccine immune monitoring program funded by the NIH and the Bill & Melinda Gates Foundation that operates in compliance with Good Clinical Laboratory Practices and has served as a national and international resource for standardized assessments of neutralizing antibody responses in preclinical and clinical trials of candidate HIV vaccines since 1988. More recently he turned his attention to SARS-CoV-2, with a special interest in emerging variants and how they might impact transmission, vaccines and immunotherapeutics. His laboratory also utilizes FDA approved validated neutralizing antibody assay criteria to facilitate regulatory approvals of COVID-19 vaccines. He has published over 700 original research papers that have helped shape the scientific rationale for antibody-based vaccines.

