

Sanofi Pasteur is interested in potential partnering opportunities in the field of active and passive human immunization, as well as technologies supporting product development and industrial performance, including:

- **Vaccines, monoclonal antibodies, and supporting technologies for prevention and treatment of infectious diseases**
 - Novel antigens and methods for antigen discovery and characterization
 - New ways to administer vaccines, including mucosal routes
 - Nanoparticles, carrier proteins, and methods of conjugations proteins and polysaccharides
 - mRNA vaccine technologies, including mRNA production and formulation methods
 - Novel vectors for delivering antigens
- **Agents to enhance vaccine immune responses**
 - Adjuvants and immunomodulators
- **Characterization and assays of immune responses and disease markers**
 - Animal models, including of human diseases
 - Biological and immunological studies to characterize adjuvants and immunomodulators
 - Biological markers for evaluating the efficacy of prophylactic or therapeutic interventions
 - *In vitro*, *ex vivo*, and 3D models of human tissues, including the immune system
 - B-cell immunology, and immunosenescence
 - Imaging/bioimaging
 - Epidemiological studies relevant to the use of vaccines and immunotherapeutics
- **Tools for improving vaccine and monoclonal antibody research, development and production**
 - Prokaryotic or eukaryotic cell lines for antigen production
 - Upstream and downstream processes optimization technologies
 - Process automation
 - Preservatives and stabilizers
 - Bioinformatics techniques for modeling, data handling and analysis
 - Omics approaches related to biomarkers, safety, and correlates of immunity/protection
 - AI, machine learning and machine vision
 - Nonionic detergents
 - Anti-counterfeiting technology
- **Vaccines for disease areas that are of particular interest to us:**
 - Nosocomial infections like *S. aureus* and *P. aeruginosa*, and others, including those that cover multiple pathogens
 - Viral infections: CMV, HSV, Influenza, Norovirus, Rotavirus, Rhinovirus, RSV, Bacterial infections: B. pertussis, Lyme disease, Meningococcal B, *S. pneumoniae*, Acne, Periodontal, E. coli (UTI)
 - Pathogens exacerbating COPD or asthma