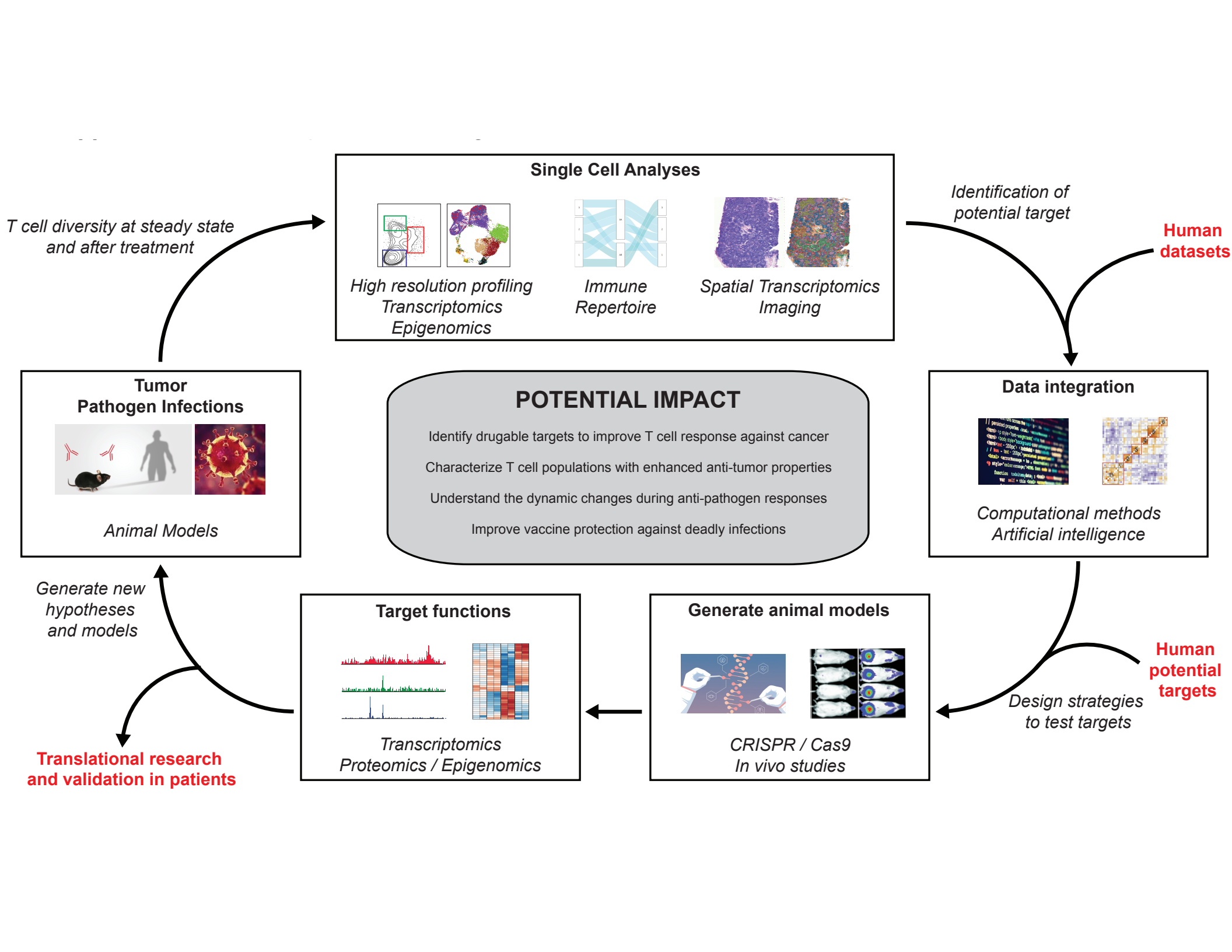
Single Cell Analyses
High resolution profiling
Transcriptomics
Epigenomics
Immune
Repertoire
Spatial Transcriptomics
Imaging
T cell diversity at steady state
and after treatment
Identification of
potential target
Human
datasets
Tumor
Pathogen Infections
Animal Models
POTENTIAL IMPACT
Identify drugable targets to improve T cell response against cancer
Characterize T cell populations with enhanced anti-tumor properties
Understand the dynamic changes during anti-pathogen responses
Improve vaccine protection against deadly infections
Data integration
Computational methods
Artificial intelligence
Generate new
hypotheses
and models
Target functions
Transcriptomics
Proteomics / Epigenomics
Generate animal models
CRISPR / Cas9
In vivo studies
Human
potential
targets
Design strategies
to test targets
Translational research
and validation in patients