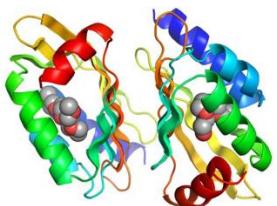
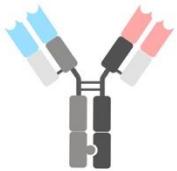


Drug discovery lab capability

(AI-based) protein design

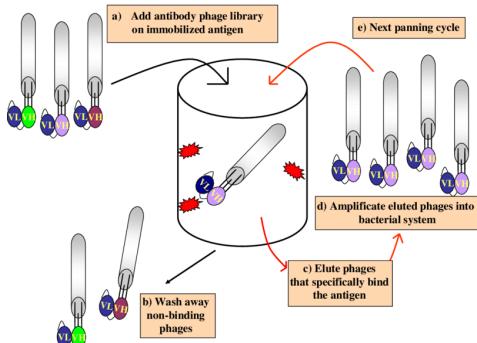


Cytokines

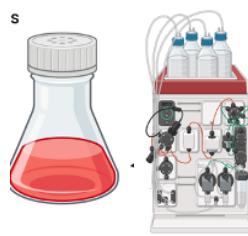


Mono- Bi- tri-specific
Antibodies

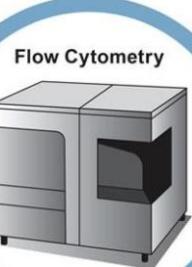
(AI-based)
Antibody discovery display



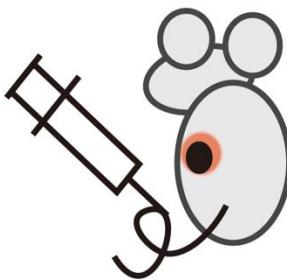
Production



In vitro cell culture

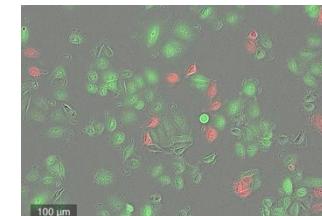
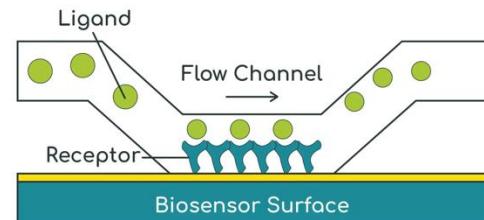


Mouse experiments

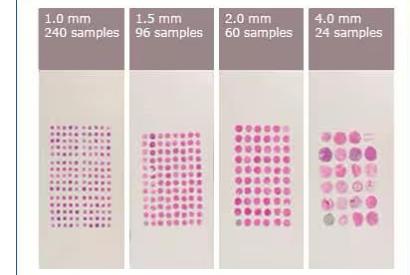


Stability and
yield optimisation

Affinity
Characterisation



Human tissue array



Efficacy
MoA
Side effects
(Biochem, haematology)
PK/PD
Biomarker discovery
Human cancer (PDX, humanised)

Lab focus: Protein engineering for immunotherapy and Drug Delivery System

2014 PhD Univ. Tokyo: Hematopoietic stem cell biology

2014-2016 EPFL, Switzerland

2016-2020 Univ. Chicago

2020- Imperial College London Bioengineering

2024- National Cancer Center, Japan (cross-appointment)

Nature Biomed Eng 2020^b

Multiple sclerosis

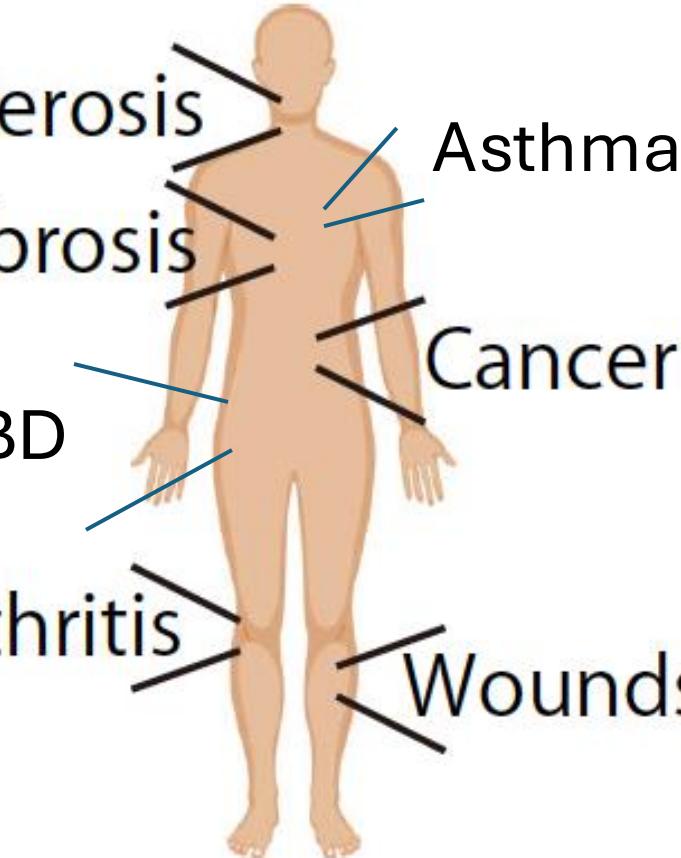
Science Adv, 2019^c

Fibrosis

Systemic inflammation

Science Adv, 2019^c
Arthritis Res Ther, 2019
Rheumatol res 2020

Arthritis



Science Transl Med, 2017
Mol Cancer Ther, 2018
Science Transl Med, 2019
Science Adv, 2023, 2019^a 2019^b
Nature Comm 2023 2023
Cell rep med 2023
Nature Biomed Eng, 2025, 2025, 2022, 2020,

Nature Commun 2018
Blood (plenary paper) 2019
Npj Regenerative med 2023