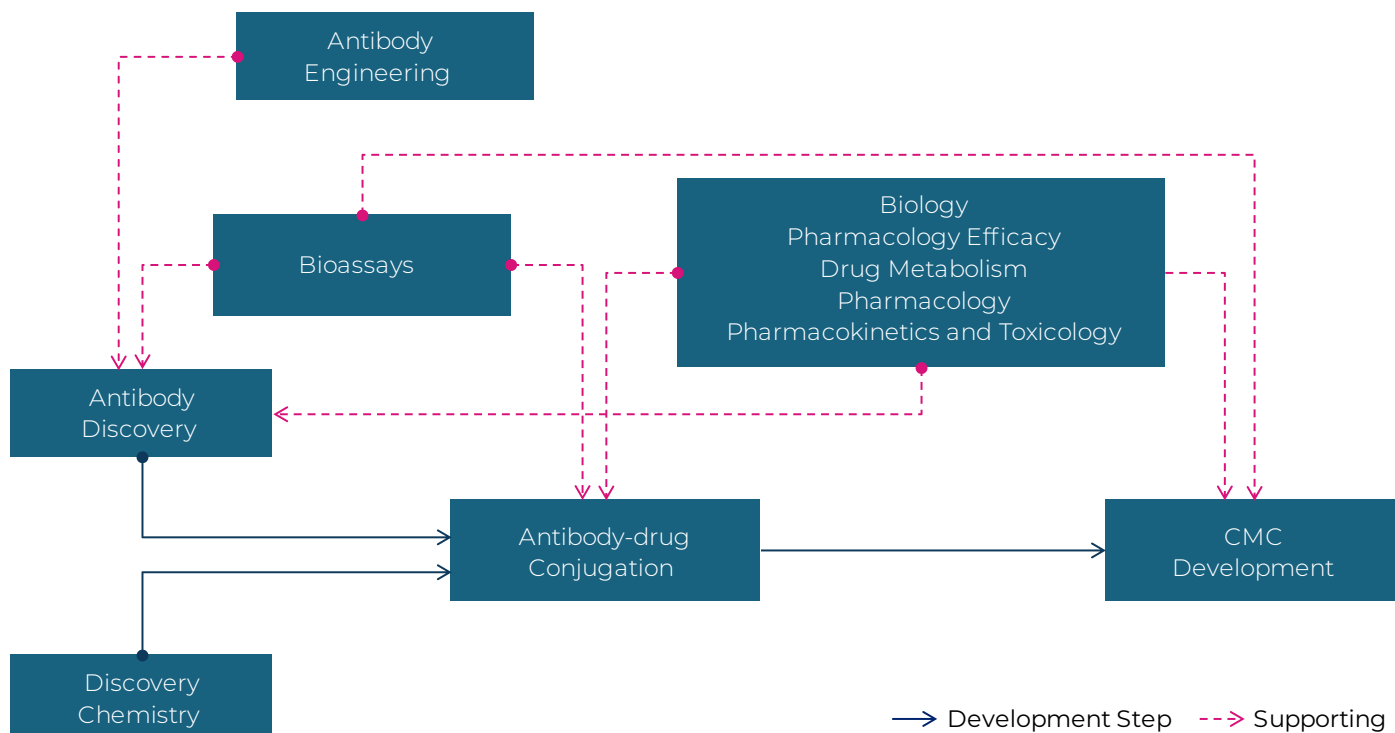


ADC DISCOVERY

Antibody-drug Conjugate (ADC) development from ADC oriented antibody discovery to ADC manufacturing, with complete characterization, *in vitro* bioassays and *in vivo* pharmacology data

ChemPartner's cross-function ADC development platform offers one-stop services for ADC-oriented antibody discovery, linker-payload design and synthesis, bioconjugation and ADC characterization, *in vitro* pharmacology and CMC development.



ANTIBODY DISCOVERY

Strong antibody discovery team highly experienced in developing ADC oriented mAbs from target selection to ADC validation

LINKER PAYLOAD CHEMISTRY

Custom linker-payload design and manufacturing

BIOASSAYS

All assays for antibody and ADC characterization, quality analysis, and function assessment

BIOCONJUGATION

Extensive experience and established processes for cleavable and noncleavable linker conjugation and site specific conjugation

IN VIVO PHARMACOLOGY

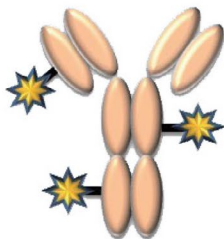
Pharmacokinetics profile study, efficacy on over 500 xenograft animal models, exploratory Toxicology on large animals

CMC DEVELOPMENT

Experienced manufacturing and quality team develop and validate ADC production and QC procedures

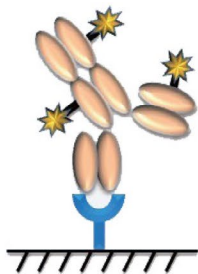
From *In Vitro* to *In Vivo*

Conjugation and Bio-Analysis



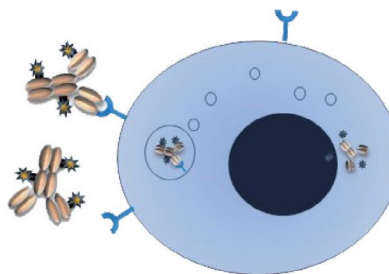
2-3 WEEKS

Antigen Binding Activity



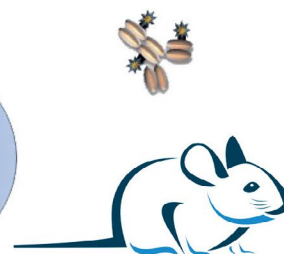
3-4 WEEKS

In Vitro Potency Assays

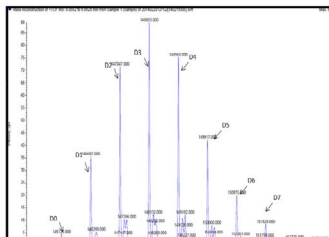


3-4 WEEKS

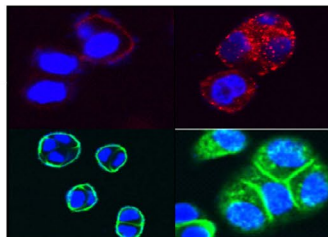
PK/PD and *In Vivo* Efficacy



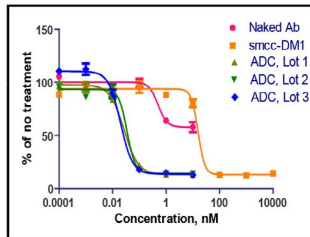
2-3 MONTHS



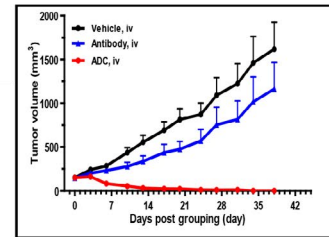
DAR BY LC/MS



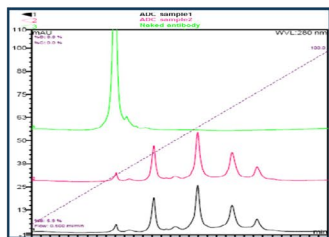
INTERNALIZATION ASSAY



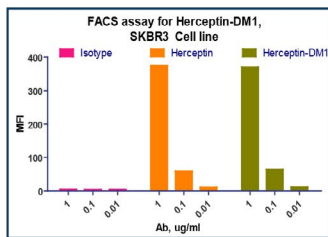
CYTOTOXICITY ASSAY (TARGET POSITIVE CELL LINE)



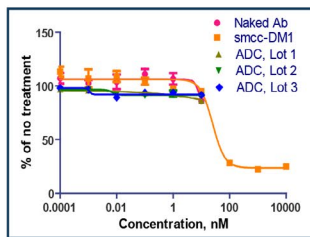
IN VIVO EFFICACY STUDY



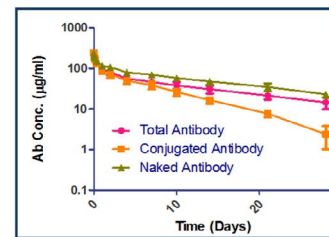
DAR BY HPLC-HIC



FACS BINDING ASSAY



CYTOTOXICITY ASSAY (TARGET NEGATIVE CELL LINE)



IN VIVO PK STUDY

Deliverables

- Products
- Manufacturing and QC Data
- Protocols and Notebooks

mAbs

- Variable targets
- Variable species
- Variable isotype
- Variable epitope

LINKER

- Cleavable linker
- Non-cleavable linker

DRUG

- DM1
- MMAE
- MMAF
- Other potency drugs