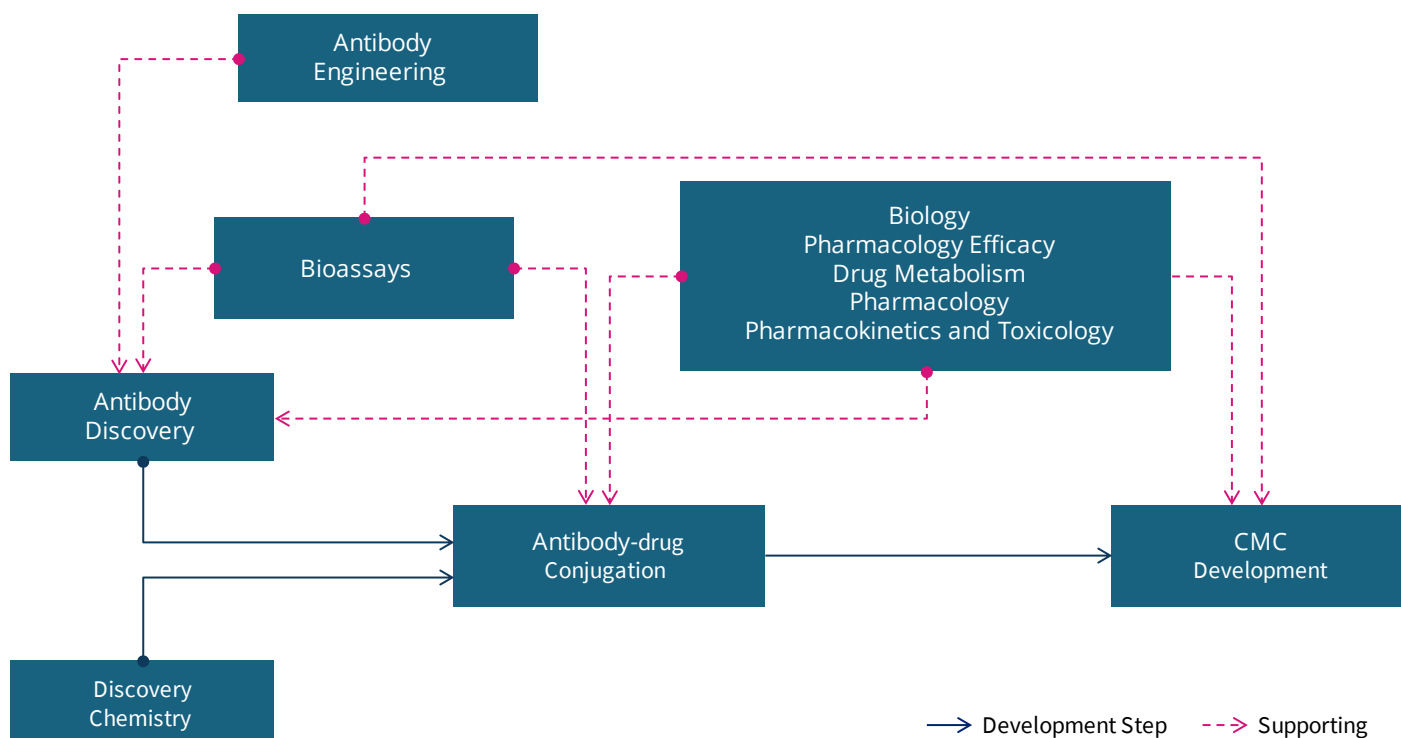


# ADC DISCOVERY

**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

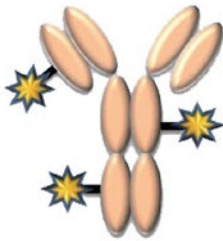
Pharmacokinetics profile study, efficacy on over 500 xenograft animal models, exploratory Toxicology on large animals

## CMC DEVELOPMENT

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

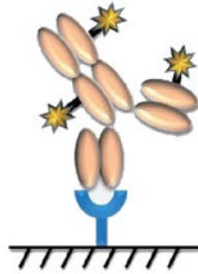
# From *In Vitro* to *In Vivo*

## Conjugation and Bio-Analysis



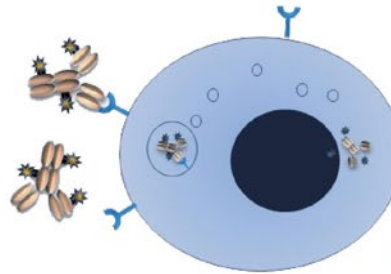
2-3 WEEKS

## Antigen Binding Activity



3-4 WEEKS

## *In Vitro* Potency Assays

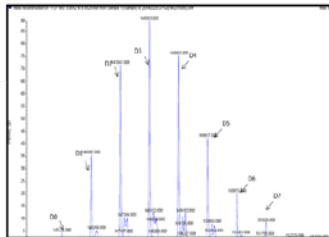


3-4 WEEKS

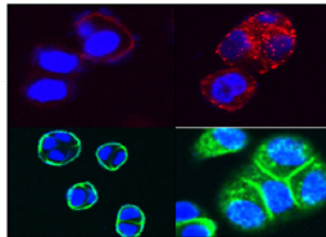
## PK/PD and *In Vivo* Efficacy



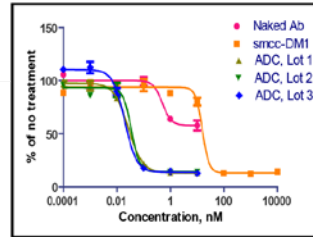
2-3 MONTHS



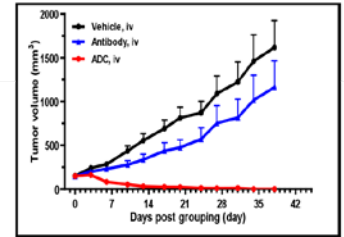
DAR BY LC/MS



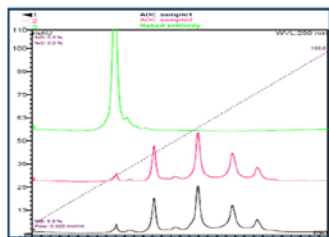
INTERNALIZATION ASSAY



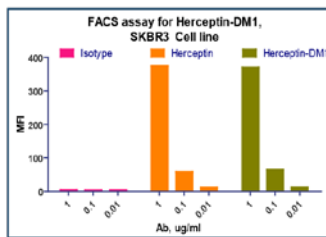
CYTOTOXICITY ASSAY (TARGET POSITIVE CELL LINE)



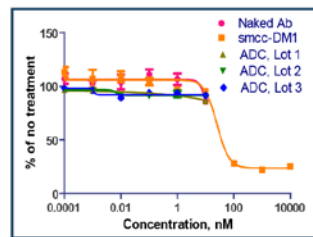
*IN VIVO* EFFICACY STUDY



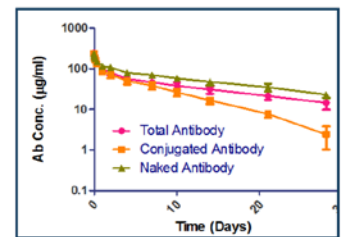
DAR BY HPLC-HIC



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