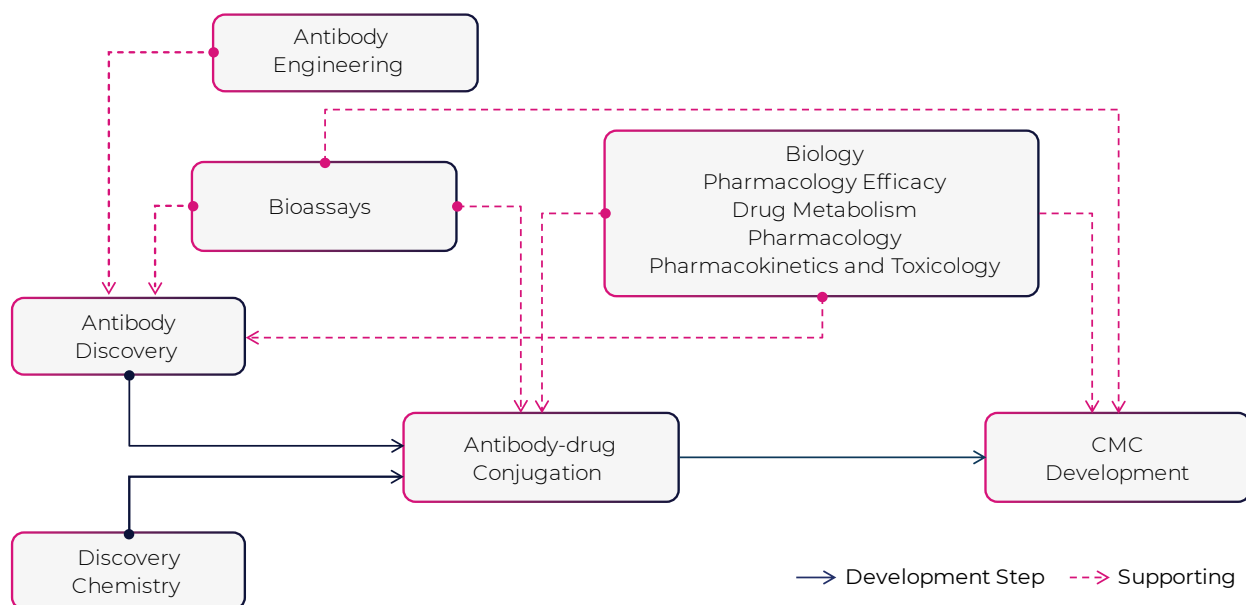


# ADC DISCOVERY

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

## IN VIVO PHARMACOLOGY

- Pharmacokinetics profile study:
  - Efficacy on 500+ xenograft animal models
  - Exploratory toxicology on large animals

## BIOCONJUGATION

- Extensive experience
- Established processes for cleavable and noncleavable linker conjugation and site specific conjugation

## 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

Antigen Binding Activity

*In Vitro* Potency Assays

PK/PD and *In Vivo* Efficacy

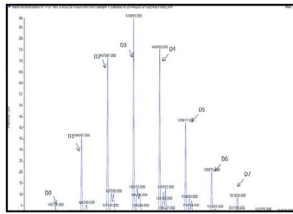
2-3 Weeks

3-4 Weeks

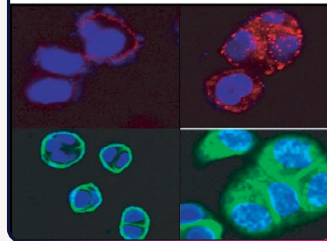
3-4 Weeks

2-3 Months

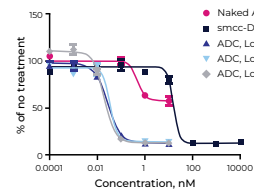
DAR BY LC/MS



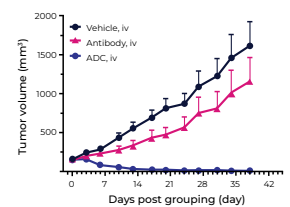
INTERNALIZATION ASSAY



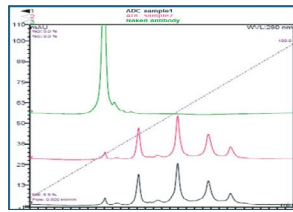
CYTOTOXICITY ASSAY (TARGET POSITIVE CELL LINE)



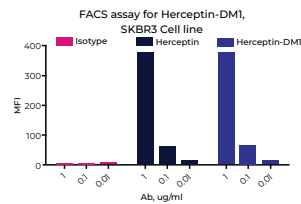
*IN VIVO* EFFICACY STUDY



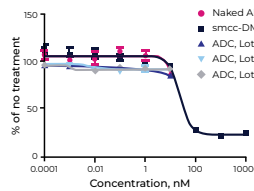
DAR BY HPLC-HIC



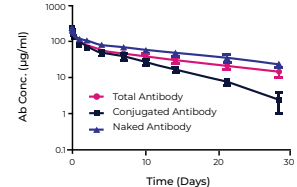
FACS BINDING ASSAY



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

LEARN MORE AT [CHEMPARTNER.COM/SERVICES/BIOLOGICS-DISCOVERY/ANTIBODY-DISCOVERY/ANTIBODY-DRUG-CONJUGATES/ANTIBODY-DRUG-CONJUGATE-ADC/](http://CHEMPARTNER.COM/SERVICES/BIOLOGICS-DISCOVERY/ANTIBODY-DISCOVERY/ANTIBODY-DRUG-CONJUGATES/ANTIBODY-DRUG-CONJUGATE-ADC/)