

Enhancing drug delivery

DEP® dendrimer platform

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Fleurstat BVgel BVgel



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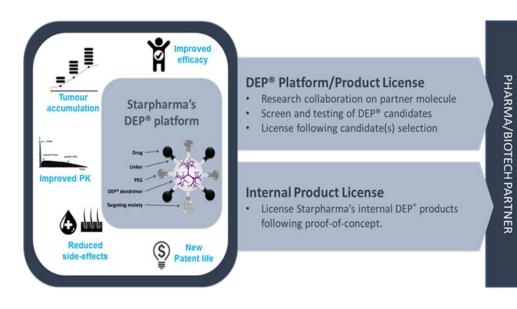
FLEURSTAT BVGEL (VivaGel® BV) for the treatment of BV and relief of symptoms: Ask your pharmacist – they must decide if this product is right for you. Always read the label. Follow the directions for use. Do not use for more than 7 days unless a doctor has told you to. See your doctor if symptoms persist after 7 days or recur within 2 weeks, and if you consider you may be at risk of an STI. See a doctor if you are diabetic or pregnant/breastfeeding (or plan to be).

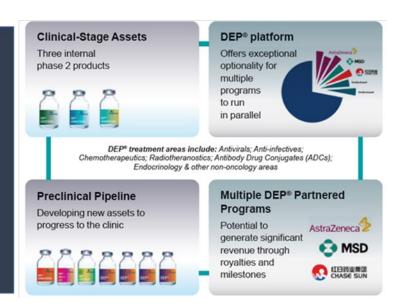




Starpharma's DEP® strategy:

"To leverage our proprietary dendrimer platform to build high value products and partnerships that address significant unmet need"











DEP® partnering creates significant value and optionality

Starpharma's DEP® platform enhances the commercial and therapeutic value of a wide range of drugs, creating multiple potential revenue streams and significant IP leverage

DEP® platform allows for multiple partnerships



Starpharma has several disclosed/undisclosed partnered DEP® programs, including with large pharma companies: AstraZeneca. Merck and Chase Sun

AstraZeneca's novel DEP® nanoparticle AZD0466 AstraZeneca

- · Dual Bcl2/xL inhibitor with DEP® significantly improving its therapeutic index
- · Phase 1 trial significantly expanded and advanced in 2021, to a multi-region, global Phase 1/2 clinical trial
- The new phase 1/2 trial design is aimed at seamless transition to phase 2, to facilitate marketing approval.
- Data was also recently published showing the potent anticancer effects of AZD0466 in a malignant mesothelioma model.
- · AZD0466 is the first candidate in Starpharma's multiproduct licence with AZ:
- Total AZD0466 deal up to US\$124M + rovalties



AstraZeneca describes AZD0466 as having the potential to be a "best-in-class" agent with a broad application in both solid and haematological tumours



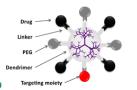


Starpharma has signed a DEP® research agreement with MSD for dendrimer-based ADCs using DEP® technology

Recent ADC deals demonstrate strong interest

- AstraZeneca & Daiichi Sankyo, US\$6.9 billion, July 2020.
- Gilead & Immunomedics. US\$21 billion. Sep 2020.
- Seattle Genetics & Merck, \$6.8 billion, Sep 2020.
- Merck & VelosBio. \$2.75B. Nov 2020.
- Boehringer Ingelheim, €1.2B (\$1.5B), Dec 2020.
- BMS & Eisai, US\$3.1B, June 2021.

"MSD is a recognised leader in oncology, and we are delighted to have signed this new Research Agreement in such an innovative and valuable area"



Dr Jackie Fairley, CEO Starpharma

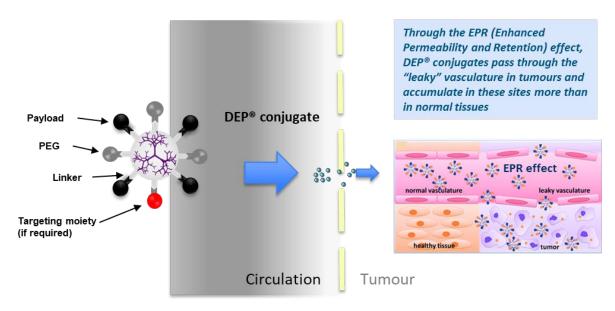
AZD0466 featured at AACR 2020 Meeting: https://starpharma.com/drug_delivery/dep-posters





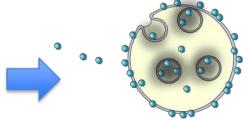


DEP® platform - preferential tumour accumulation => enhanced benefits



DEP conjugate

- Accumulation in tumour via EPR
- Interaction with cell
- drug release
- · antitumour effect



Targeted DEP® conjugate

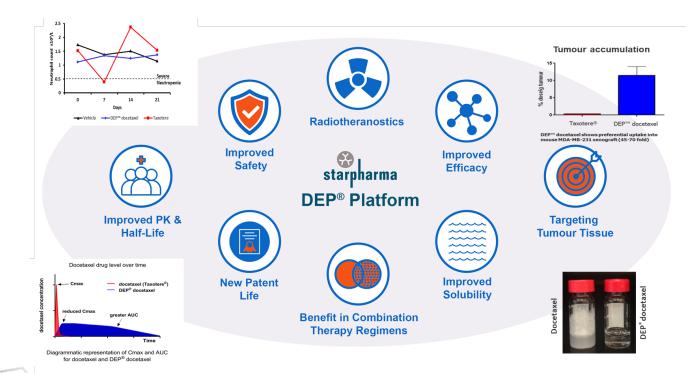
- DEP ADC, DEP radiotherapy
- · Targeting moiety helps binds to cell
- Binding increases retention and internalization at cells
- Increased internalization = increased drug release/activity







Starpharma's DEP® drug delivery platform enhances the therapeutic and commercial value of drugs

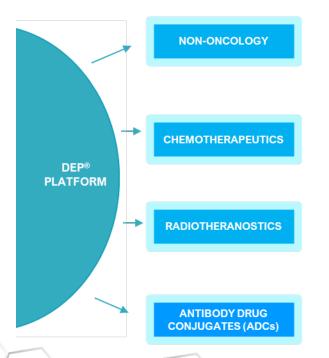








DEP® is a technology platform with multiple commercial opportunities in oncology and beyond



- Antiviral eq. DEP® remdesivir
- Anti-infective
- Endocrinology



- · Franchise extension
- · Generic differentiation
- · New Chemical Entities
- Combinations including immuno-oncology

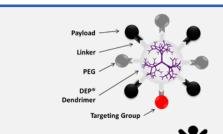


- · Radiotheranostic applications
- Can use variety of radioisotopes



- · Flexible technology
- · Increased drug antibody ratio
- Targeting group agnostic
- Site selective payload attachment





Improved efficacy

DEP® improves anti-cancer efficacy through better drug targeting & improved pharmacokinetics.

Reduced side-effects





DEP® reduces important side effects such as bone marrow toxicity / low white blood cells (neutropenia) and alopecia (hair loss). Also removes need for steroid pre-treatment.

Patent life



In addition to the therapeutic and clinical benefits, DEP® also provides valuable commercial benefits by creating new intellectual property and extending patent life.







DEP[®] internal oncology programs

Multiple clinical-stage assets with high commercial value potential

COMMERCIAL **OBJECTIVE**



Create value through clinical proofof-concept in one or more cancer types - alone and/or in combination



License following proof-ofconcept clinical data; platform validation



Utilise accelerated development / regulatory pathways (i.e. 505b2) for optimal ROI





DEP® DOCETAXEL: Enhanced version of docetaxel (Taxotere®) - widely used for breast, lung & prostate cancer

Phase 2 trial ongoing, 50 patients recruited

- · Encouraging efficacy signals observed, including prolonged stable disease and significant tumour shrinkage in patients with pancreatic. oesophageal, cholangiocarcinoma, and gastric cancer.
- Notable lack of bone marrow toxicity (e.g., neutropenia) and other common side effects inc. hair-loss, mouth ulcers, anaphylaxis and oedema





Enhanced version of leading prostate cancer drug cabazitaxel (Jevtana®)

JEVTANA' (cabazitaxel)

Phase 2, ongoing, 42 patients recruited

- Encouraging efficacy signals have been observed, including radiological responses, stable disease, significant target tumour shrinkage and substantial tumour marker reductions (e.g., PSA), in cancers including prostate, ovarian, lung, gastro-oesophageal, head and neck and other cancers.
- Significantly less toxicity than is usually associated with Jevtana®





DEP® IRINOTECAN: Improved version of irinotecan (Camptosar®) predominantly used for colorectal cancer

Phase 2, ongoing, 54 patients recruited

- · Encouraging efficacy signals observed include prolonged stable disease, impressive tumour shrinkage and reductions in tumour marker levels for a number of tumour types, including breast, colorectal, ovarian, pancreatic, lung and oesophageal cancer
- · No severe high-grade diarrhoea seen with DEP® irinotecan which is experienced by 20-40% of patients with conventional irinotecan & often requires hospitalisation



Starpharma's deep preclinical pipeline includes DEP® chemotherapeutic candidates including:

- DEP® gemcitabine
- DEP® radiotherapeutic candidates
- DEP® antibody drug conjugate (ADC) candidates
- · Further therapeutic candidates

#Clinical studies have demonstrated reduction in important side effects with DEP®including bone marrow toxicity, anaphylaxis, oedema and hair-loss

* Multiple preclinical studies have established improved efficacy, survival and safety with DEP® with many different drugs

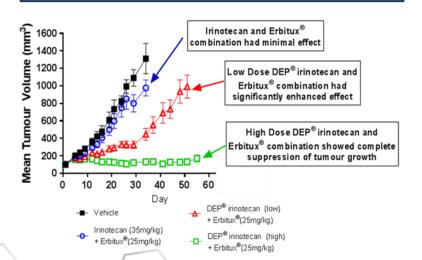




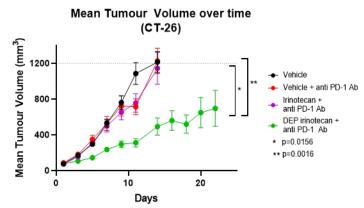


DEP® drugs are also ideal candidates for combination therapyconventional, targeted and Immuno-Oncology approaches

 DEP® irinotecan in combination with Erbitux® demonstrated significantly enhanced anti-cancer efficacy, and survival with complete suppression of tumour growth and 100% survival in HT-29 colon cancer model



- DEP® irinotecan + anti PD-1 Ab in combination
- showed significant enhancement of anti PD-1 antibody (anti PD-1 Ab) activity by DEP® irinotecan in both CT-26 and MC-38 colon cancer models



These results indicate that DEP® irinotecan in combination with an anti PD-1 antibody could boost the efficacy over anti PD-1 antibody alone, or immuno-oncology (IO) combinations with standard chemotherapeutic agents.



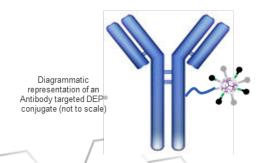




Targeted DEP® conjugates provide additional flexibility

Starpharma's Ab Targeted DEP® conjugates provide many benefits over existing ADCs and can overcome many issues faced today by existing ADC approaches, including:

- Greater homogeneity
- · Site specific attachment of drug conjugate
- · High affinity
- The delivery of significantly higher payload levels than conventional ADCs
- Versatility in payload type
- Overcome issues of payload solubility and aggregation



Targeting

- · Flexibility in use of targeting molecule
 - · Ab; Ab fragment; Non-Ab ligand; Small molecule

DEP® drug conjugate

- · Precisely manufactured poly-lysine dendrimer with attached drug/payload
- Dendrimer size easily scalable to deliver desired payload number (8, 16, 32...)
 per dendrimer conjugate
- Can deliver any type of payload cytotoxic, ultratoxic, radioisotope
- · Potential applications beyond cancer
- · Drug-linker strategy easily tailored to meet drug release requirements
- · Increase solubility and handling of payload

Site specific attachment

- · Precise and reproducible
- · Ability to attach multiple dendrimers of differing size (high DAR)
- Ability to achieve significantly higher DAR than other approaches

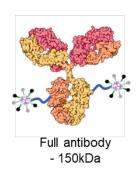


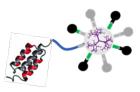




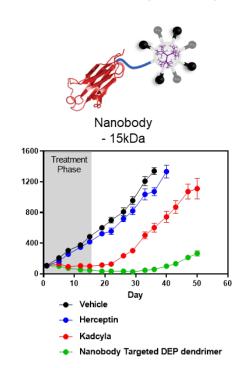
DEP® ADC / Radiotheranostic platform

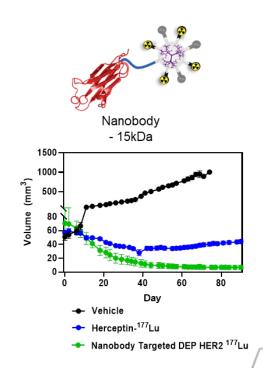
Flexibility in targeting approach – Flexibility in payload - Enhanced performance





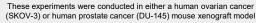
Affibody - 6.5kDa





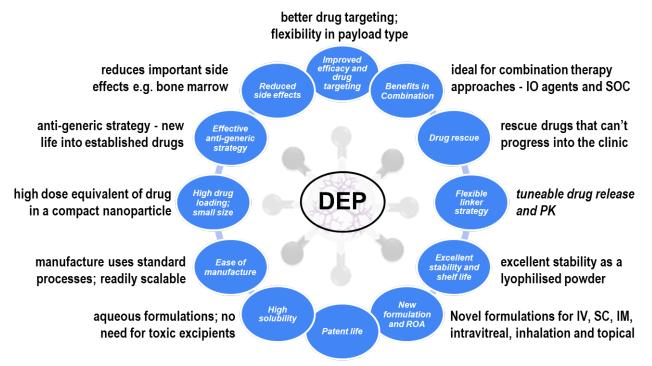


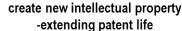






DEP® platform – significant optionality, therapeutic and commercial benefits















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