Cyclodextrins as APIs

To antagonize the effect of Heparin and LMWHs

Cyclodextrins as LMWH antidotes

CycloLab is committed to support the extension of the current knowledge of cyclodextrins and is actively participating in exploring the limits of their potential applications.

In the light of this vision, we are determined to design and develop new cyclodextrin derivatives that may be used as actives and in combination with other APIs in diseases and conditions of unmet medical need

Why LMWH antidotes?

Application-1: **Sensors** in bedside detection of heparin levels

Application-2: Heparin traps as **reversal agents** for surgical procedures
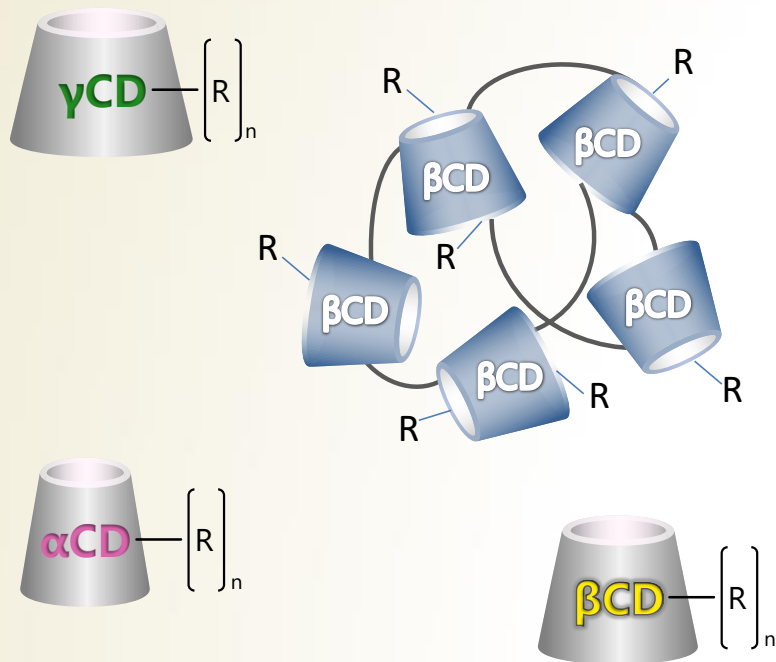
Promising market size, as heparins are the second most prescribed drugs after insulin

The effective and selective universal heparin antidote would address an unmet clinical need

Cyclodextrins as LMWH antidotes

CycloLab developed a new family of cyclodextrins having huge affinity for different types of low molecular weight heparins

Interaction studies

NMR   TLC

CE   ITC

Dynamic Light Scattering

Why use cyclodextrins?

Affinity of CDs towards several LMWHs is **in the same range** as that other drug candidates

The designed CD family has excellent toxicological profile and is well tolerable

Application of CDs in pharma formulations as excipients and as APIs is growing.

Capability of highly selective binding and this kind of „antagonizing" effect of cyclodextrins has already been proven (Sugammadex)

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Cyclodextrins as LMWH antidotes

Current efforts are directed towards ex vivo and in vivo experiments (animal studies) as well as structural fine-tuning of the lead candidates

CycloLab is open to enter into co-development and collaboration in this topic. In case you are interested to learn further details, please contact us!

Cyclodextrins as LMWH antidotes

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