

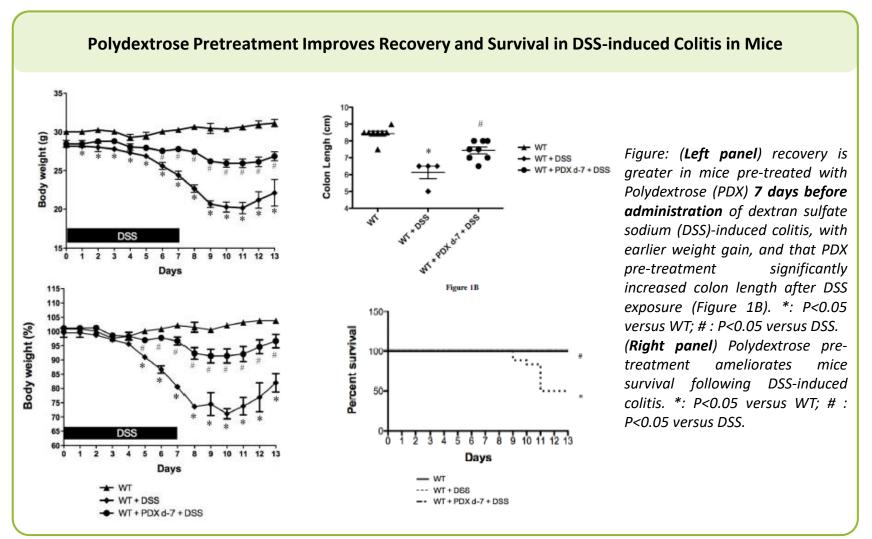
SELECTED OPPORTUNITIES IN INFLAMMATORY DISEASES

Use of Polydextrose for the Treatment of IBD and Other Inflammatory Diseases (BIO 17301)

Product factsheet In Vivo PoC

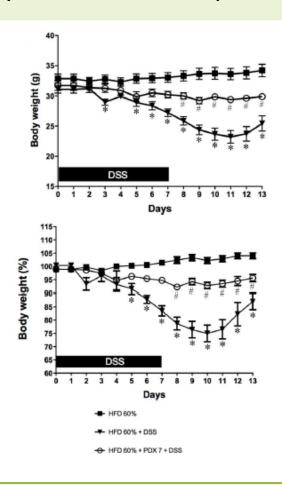
- Target:
 - Gut Microbiota
- Product:
 - Tested: Polydextrose (prebiotic)
- Application:
 - Inflammatory diseases
 - More particularly inflammatory bowel diseases
- Rational:
 - The gut microbiota has emerged as a central factor affecting human health and disease, and inflammatory diseases are no exception
 - The potential role of the gut in the pathophysiology of inflammatory diseases has recently begun to attract increased attention
- ▶ POC:
 - In the murine model of DSS-induced colitis that the prebiotic, polydextrose (PDX), ameliorates survival, increases colon-length and weight gain after settlement of colitis and thus demonstrate that the fibre provides anti-inflammatory properties
- Patent and publication:
 - ◆ PCT/EP2019/053480: USE OF POLYDEXTROSE FOR THE TREATMENT OF INFLAMMATORY DISEASES

Proof of concept In Vivo PoC



Proof of concept In Vivo PoC

Polydextrose Pretreatment Improves Recovery and Survival in DSS-induced Colitis in Mice Fed with HFD



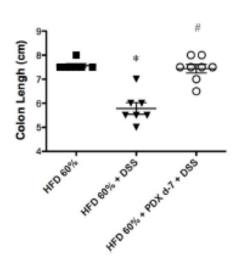
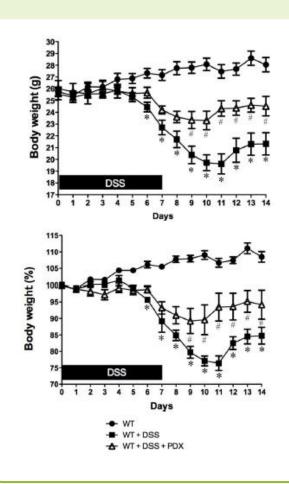


Figure: recovery is greater in mice pre-treated with Polydextrose (PDX) after 1 month of HFD 60% and after DSS-induced colitis (**Left panel**), with earlier weight gain, and that PDX pre-treatment significantly increased colon length after DSS exposure(**Right panel**).

*: P<0.05 versus WT; #: P<0.05 versus DSS.

Proof of concept In Vivo PoC

Polydextrose Treatment Improves Recovery and Survival in DSS-induced Colitis in Mice



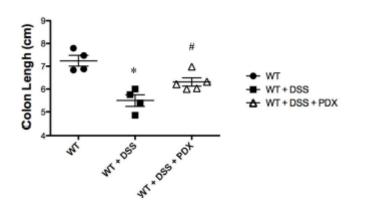
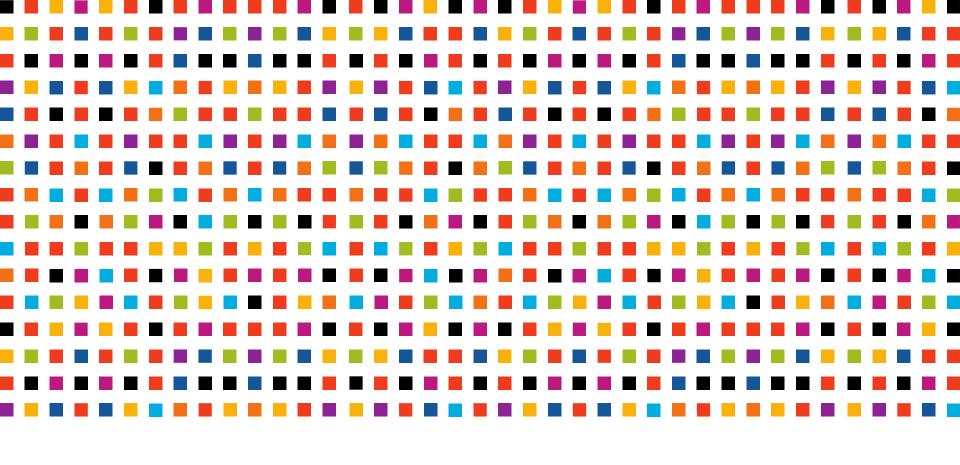


Figure: recovery is greater in mice treated with Polydextrose (PDX) **after** DSS-induced colitis (**Left panel**), with earlier weight gain, and that PDX treatment significantly increased colon length after DSS exposure (**Right panel**). *: P<0.05 versus WT; #: P<0.05 versus DSS.



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