

## Summary

- Our study demonstrated the causal relationship between gut microbial metabolism of SN-38G and irinotecan-induced gastrointestinal toxicity in CRC patients using metabotyping, FMT and gnotobiotic mice
- Three selected GUS-harboring species promoted irinotecan-induced toxicity which can be partially mitigated by GUS inhibitor AMX
- Local exposure to gut microbiota may play essential roles in individual response to drug (efficacy/toxicity) or environmental chemicals.

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Specific reaction-based metabotyping will facilitate diagnosis and/or specific GUS inhibitor discovery for precision medicine

