

## Supplementary File 1: Figures

### Avian and Human *Turicibacter* Isolates Possess Bile Salt Hydrolases with Activity Against Tauro-Conjugated Bile Acids

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Figure S3: DNA-based phylogeny of *bsh* of the four *Turicibacter* strains analyzed in this study.

Figure S4: DNA-based phylogeny of *bsh* from select *Turicibacter* BSH genes with known activity vs tauro-conjugated bile acids.

Figure S5: Amino acid sequence alignment of select *Turicibacter* BSH genes with known activity vs tauro-conjugated bile acids with LsBSH (*Ligilactobacillus salivarius*; [AFP87505.1](#)) as a reference.

Table S1: Genomes used in this study.

Table S2: Genome assembly statistics for *T. bilis* MMM721, *T. bilis* ISU324, and *T. bilis* PIG517.

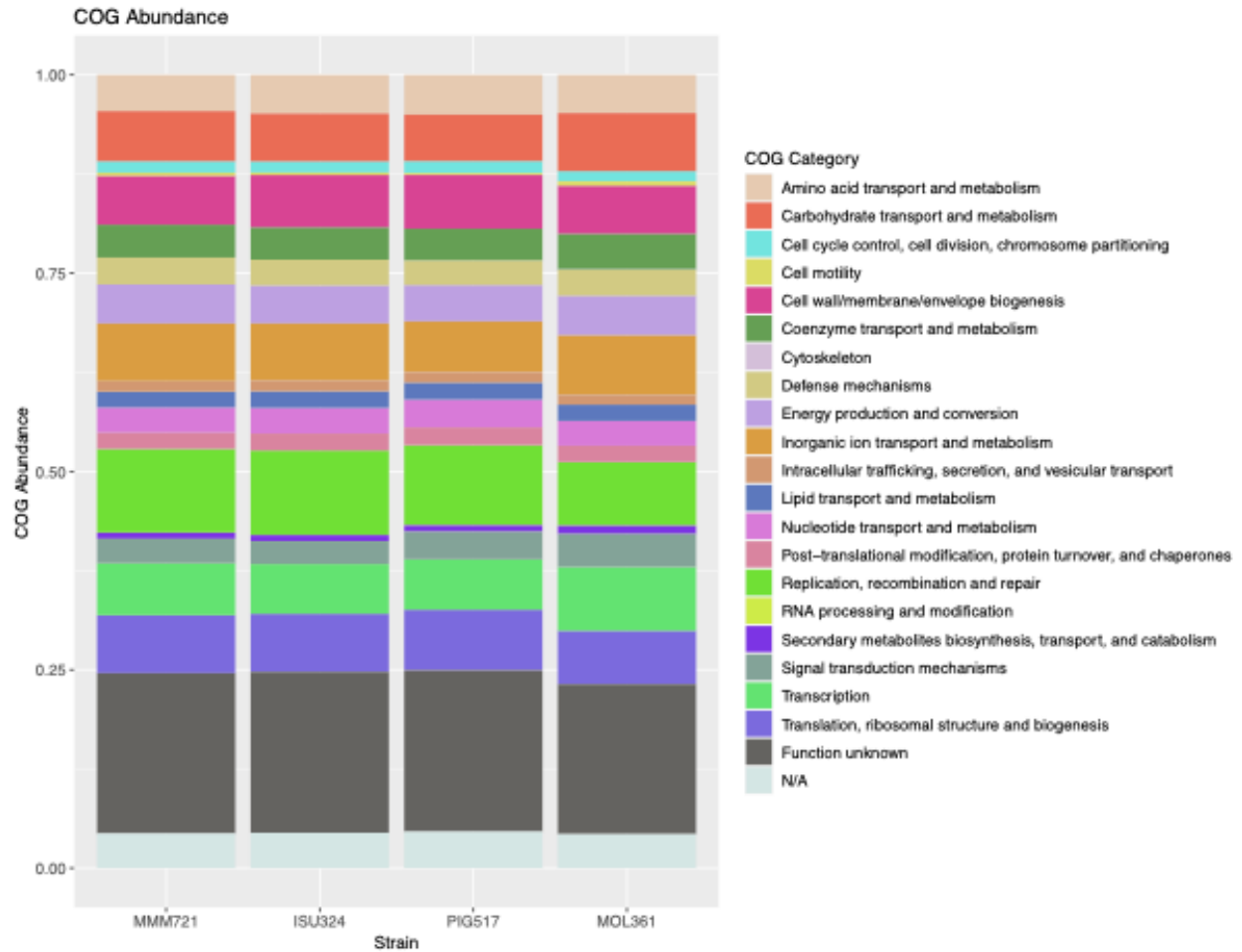
Table S3: Pairwise ANIb results comparing *T. bilis* MMM721, *T. bilis* ISU324, and *T. bilis* PIG517 and *T. sanguinis* MOL361.

Table S4: Pairwise ANIm results comparing *T. bilis* MMM721, *T. bilis* ISU324, and *T. bilis* PIG517 and *T. sanguinis* MOL361.

Table S5: Pairwise dDDH results comparing *T. bilis* MMM721, *T. bilis* ISU324, and *T. bilis* PIG517 and *T. sanguinis* MOL361.

Table S6: List of bile salt hydrolase gene used in this study.

## Supplementary Figures:



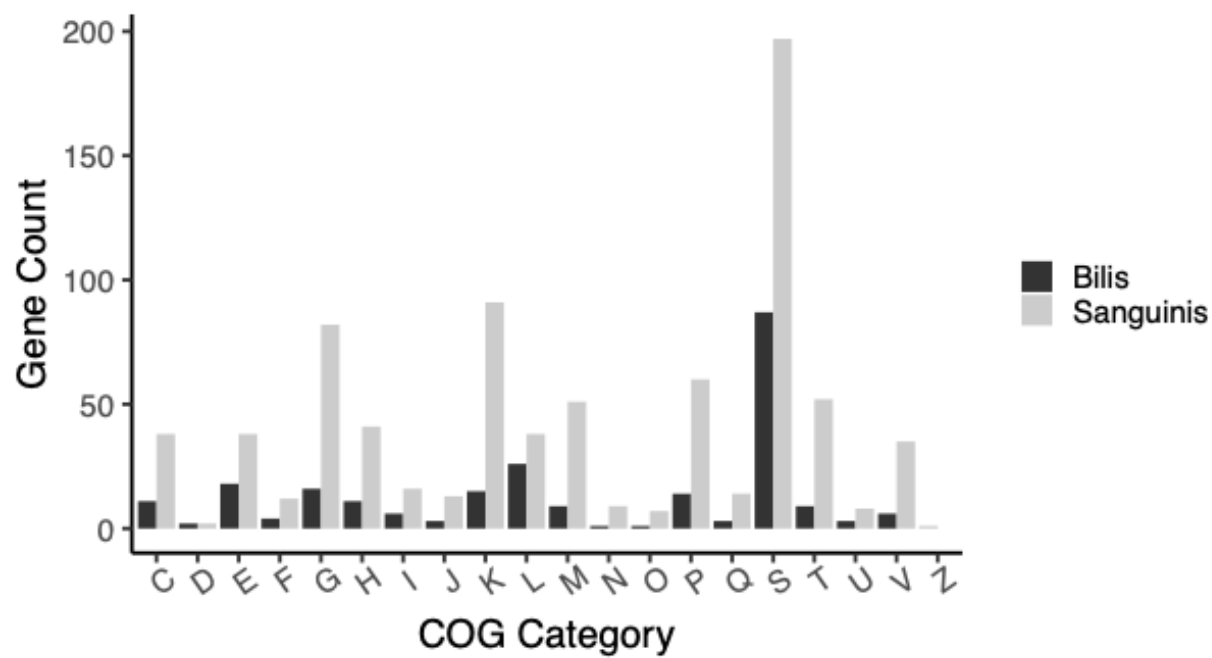


Figure S2. Clusters of Orthologous Groups (COG) category counts of CDS that were shared between and unique either *Turicibacter bilis* or *Turicibacter sanguinis*.

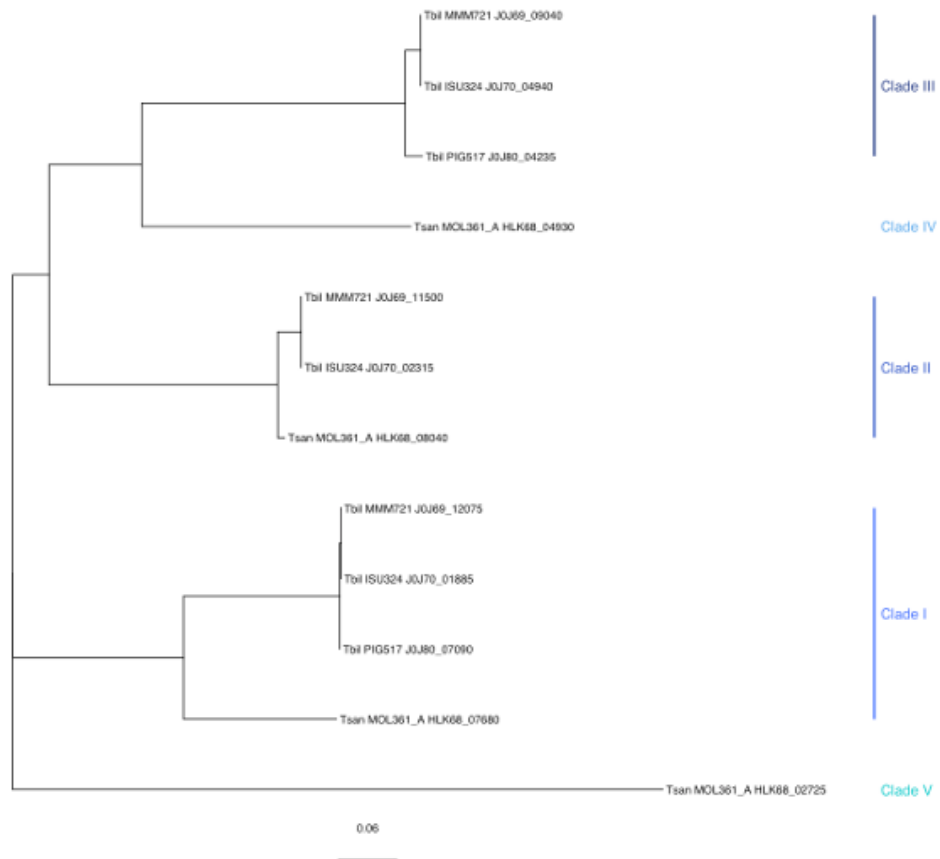


Figure S3. DNA-based phylogeny of *bsh* of the four *Turicibacter* strains analyzed in this study. Clades and sub-clades are annotated in different shades of blue.

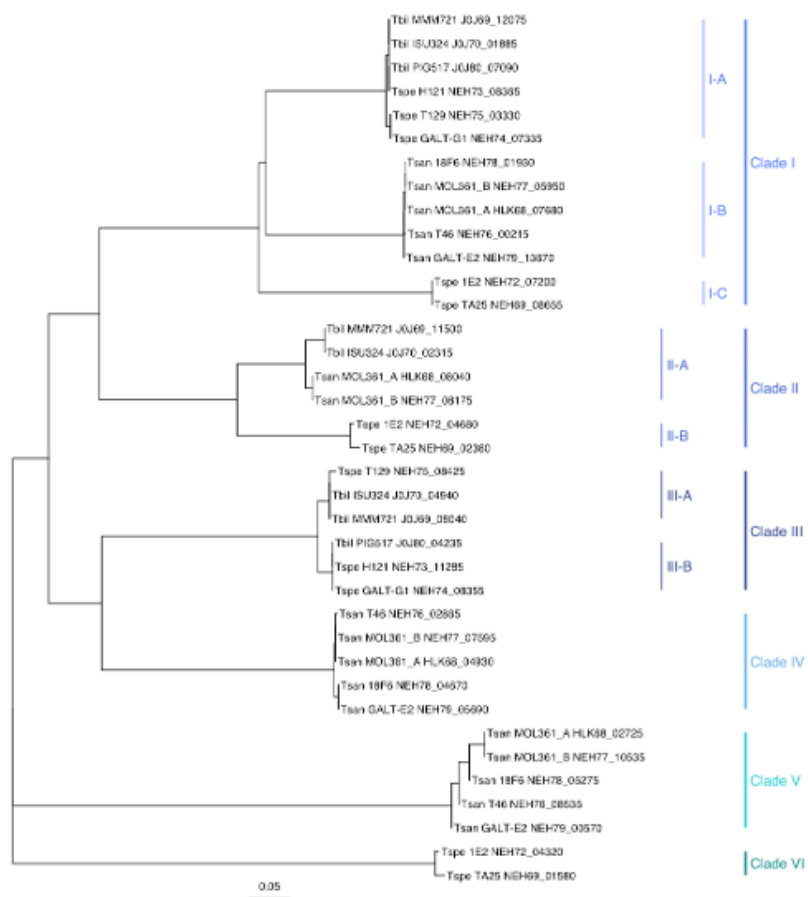


Figure S4. DNA-based phylogeny of *bsh* from select *Turicibacter* BSH genes with known activity vs tauro-conjugated bile acids. Clades and sub-clades are annotated in different shades of blue.

