

*Supplementary Material*

**Structure of O-antigen and hybrid biosynthetic locus in *Burkholderia cenocepacia* clonal variants recovered from a cystic fibrosis patient**

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## 1 Supplementary Tables:

**Table S1:** The sequence of the OAg cluster of *B. cenocepacia* IST439

>IST439\_01731 3-deoxy-D-manno-octulosonic-acid transferase

ATGCTGAGGGCGATCTATCGCGCGCTGTGGTGGCTCGTCGCGCCGGCCGCGGTCATCCGG  
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 CATGTCGCGGGCCGCTCGCGCGACGACCGCGCGCCGCTGATCTGGGTGCATGCGGTTGTCG  
 GTCGGCGAGACGCGCGCCGCGCAGCCGCTGATCGATGCGCTGATGCGCGCGCGCCCCGAT  
 GCGCGCATCCTGCTACGCACATGACGCCGAGCGGCCGCGCGACCGGGCAACAGATCTTC  
 GGCGATCGCGTGCTGCGCTGCTACCTGCCGTACGACATGCCGGGCGCGGTTGCGGGCGCTTC  
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 CTGCTGGTGCTCGTGCCGCGTCATCCGCAGCGCTTCGCCGAGGTCGAGGCGCTCGTCGCG  
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 GCGCGGCGCATCGCGATGGGCGCGGCCGGCGCGGCCTTCGCATCGCGTCACCGCGGGCGCG  
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 GCGCTGCCGGACGTGCAGGACGCTCCGGGCGACGACGCATAG

>IST439\_01732 hypothetical protein

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AGCGTCACGCAGTCGGCCGTGCGCGCGCTCGTCGCGCGCTTCCAGCAGCAGGCCGGCACG  
CTCGTCGACGGCCTCTTTCCCGAATAACCGCGGCAAGCTGCGCGTTCGCGCCGACGAGCCTG  
CGGCTGATGCAGGTGCAAACGCGCCAGACGTCGTGGCGCAAGGACGACAGCCGGCTGCAC  
GTCGACGCGTTCCCGTCGCGGCCGAACACTACGGCGAGCGCATCCTGCGCGTGTTACGAAC  
GTGAACCCGGCCGGCGCGCCGCGCGTGTGGCGTGTTCGGCGAGCCGTTTCGAGGACGTCGCG  
AAGCGCTTCCTGCCGAAGATCCGGCCGACGTTCCCGGGCTCGGGCGTGGCTGCTGAACCTG  
CTGCACGTGACGAAATCGCCGCGCAGCGCATAACGACCATCTGATGCTGAACCTGCACGAC  
GGGATGAAGGCCGACCTCGACTACCAGAAGACGTGTCCGCAGCAAACGATGCCGTTTCCG  
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TTCATGCTCGAGCAGACCTTCTTCTCGCCGGTCGACGCGATGGTTCGCCGCGAATGCGCG  
CCGCTCGGCATTCTCGAACGCCTGACGGGCAGGGCGCTGGTTTGA

>IST439\_01733 lipopolysaccharide heptosyltransferase I

GTGCAAAGATCCTGATCGTGCGTGTGTCGTCGCTGGGCGACGTCGTGCACAACATGCCG  
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GCGCTGAAGCGCCCGACGGTTCGAACTGTACAATTTTCGCGACGGCCTGGCGGACCGGCGGC  
TACTGGTCCCGAACGTCGTCAATCTCGGCACGGCGGGGCAGCCCCCGTCGATCGCGCAG  
GTGAAGTCGGCGCTCGCGGGCTTCGGCCTCCTGTAA

>IST439\_01734 phosphomannomutase

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GCCGACGAAGTCGTGACGATCGACGGCCTGCGTGTCGAGTACCCGGACGGCTTCGGCCTC  
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>IST439\_01735 membrane protein

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TATTTTCGGGCCAGATGTGTTTCGGCAAATGGCAGTATGCGAATACGCTTCTCCTGGTACTG  
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AACGCGTGGCTGCAGAGCATGACCTACAGCAAGCCGCAGCTCGTCACCAGCATGGTCACC  
GCGCTCGCCAAGGCGCTGCTCGTCTGGCTGCTGGTCCGCGCGGGCCCGGCCCGCCCGC  
TTCGCGTGGCTGTGGGCGCTGGAAGCCGCGCGATCGGCTTCGCGCTGCTGCTGTACTAC  
CGCCATCGTAACGGCGGTGCGCTCGGCTGGACGTTTCGACAAGCCGCTGTTCCGGCACTTT  
GCAACGGCCGGCACCGTGTTCTGGCTCGGCCTCATCTGCATGTACCTGTTCCCTGAAGCTC

GACCGCCTGATGCTCGAGCGCCACGTGTCGTTCCGCCGATCTCGGCCGCTATTCGGCCGCG  
CAGCAGCTCAACGAGAAGTGGATCACGCTCGCGCTGATGCTCGCGCAGACGATCGCGCCC  
GCCTTCGTCTACCGCGTGCAGGACGTGCGCGGGCTGCGCCGCAACATCGTCCGGCTGATC  
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CAAGCAAAATTTCGTGTTGCTGTCGAAATGGCTGCTCGCGCTGGCCATCGCCGCGATCGTC  
AACCTGTTCCGCGATCCCPCGGCTCGGCCTGTACGGCGCGCTCGTCCGGCTGGCGGCCGGC  
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>IST439\_01736 glycosyl transferase family protein

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TCGATCGACGTGCTGCGCATGCCCCGGAACGGCGGCATCGAACGCGCGCTGGCGGCCGGC  
ATCGACGCGCTCGCGGCGCGCGGCTTCCGCTACGCGGCCCGTATCGACGCCGGCGATCTC  
GCCGCGCCGACGCGCTCGCGAAGGAGCGCGCCTATCTCGGCGCCCACCCGCGCGTAGCC  
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CGGCGCCAGCTGGTGTGACGCTCACGCTGCTGCTGCGCCACTTCAACGTGCTGAACCCG  
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>IST439\_01737 group 1 glycosyl transferase

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>IST439\_01738 UDP-glucose 4-epimerase

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>IST439\_01739 glycosyl transferase family protein

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>IST439\_01740 polysaccharide biosynthesis protein CapD

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 GCATCGAACCGCTGA

>IST439\_01741 glycosyl transferase family protein

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 CCTGAACCTGCAGCAATGGCTGTCGTTCTCGCGTGGTATGGCGTCTGGCATGGTTCCGGA  
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>IST439\_01742 NAD-dependent epimerase/dehydratase

GTGAGTGATCTCGTCATCAGCGGCGCGAACGGCTTCGTTGGCCGAGCGGTCTGCCGTCGC



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ACAGGGAGCTTGCAGCTCGATAACCGACCGGATAAGGCGCGTACTCGACTGGCATCCGCCT  
TATACGACCCGCGAAGGCCTTGAAGCGACCGCCGCGTGGTATCGTTCGCGCGATAACAA  
CAATAG

>IST439\_01743 glycosyl transferase family protein

GTGCTTGACCGGATGAATGTAGCCTTCGACGTGATTACAGGCCACGGCAACGTCGGCTAT  
GGCCGCGGCCATAATCTCGCGATCGAGACGGTATGCAGCCGTTACCACCTCGTGCTGAAT  
CCCGACATCGATCTCGCGCCGAATGCGCTTGCGAACGCGCTTGATTTTCTCGATGCCCAT  
CCAGAGGCCGGCCTGCTGACGCCCTACATTGGCGACGAAGCCGGCCGCATCCAGTATCTG  
TGTCGTCGCTATCCCGCGATGCTCGATCTGTTTCGTGCGAGGTTTTCTGCCGTCGGTTTTT  
CACAAATCCTTCGAGCGCCGGCTGGCTCATTACGAAATGCGTGACGAGATCAACGACGCG  
GATATCGTCTGGGATCCACCGATCGTGAGCGGATGCTTTATGCTCTTCCGGACCGACCTG  
CTCAAGCGTCTGAATGGTTTTCGATCCACGGTATTTTCTGTACTTCGAAGACTACGATCTC  
AGCTTGCGGACCCGTGAGCTGGCGCGGATCGCATATGTGCCTGCGGTACGTGTGCTTAC  
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TTCAAGTTCTACAACCGCTTCGGGTGGAGGCTGTGGTGA

>IST439\_01744 hypothetical protein

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CGAGAGTGCGAAACGGAAGTCACGAGTCAGGGCAGCACAATGGACGTCTATAACGACACG  
CCCCAGGTCGCGAGCGGCAACGGGCGGAATGGTATGGAGGCGATCACGCAGCTCTGTGAT  
ACCGAACGAGCGACAGGACCGTTCAGGGATCTGTGCTTACGCTATATCTATTTACACGC

CGACTTTATGACGCAGCACTGAAGGACGGTGTAAAGCGATCTGTTTTCTTCGCCAGAGAA  
GGACTTTTGCTGAAGCAAATGTTTCGACCGGGTGCAAGCCAATGAGGACAAGACACCCATA  
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>IST439\_01745 group 1 glycosyl transferase

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>IST439\_01746 HAD superfamily hydrolase-like protein

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TGA

>IST439\_01748 type 11 methyltransferase

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>IST439\_01749 ABC transporter-like protein

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CTTCTTGCGGGACGTTATATGTGGCGCGTTCGCGATCAACGACGAGCGAGGGCTTGGTATC  
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>IST439\_01750 ABC-2 type transporter

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>IST439\_01751 dTDP-4-dehydrorhamnose reductase

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TCGAACGATAAGCTCGCATGTGCGTTTGGTTTACGTGCGCCGGACTGGCGCTTTTTGCTG  
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TAA

>IST439\_01752 dTDP-4-dehydrorhamnose 3,5-epimerase

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>IST439\_01753 glucose-1-phosphate thymidyltransferase

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>IST439\_01754 dTDP-glucose 4,6-dehydratase

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