

**2025**

**Chemical Synthesis of the Pentasaccharide Repeating Unit of the O-Antigen from *E. coli* O36 with Extensive Use of Chemo-selective Glycosylations**

**Bijoy Rudra** and Balaram Mukhopadhyay

[\*J. Org. Chem.\* \*\*2025\*\*, \*90\*, 17058–17067](#)



**Chemical Synthesis of the Pentasaccharide Related to the Exopolysaccharide of *Aeromonas veronii* bv. Sobria Strain K49**

**Annesha Dutta** and Balaram Mukhopadhyay

[\*J. Org. Chem.\* \*\*2025\*\*, \*90\*, 14984–14992](#)



**Total synthesis of the D-acofriose-containing trisaccharide repeating unit of the O-antigen from *Azospirillum brasilense* JM6B2**

**Sanajit Maiti** and Balaram Mukhopadhyay

[\*Org. Biomol. Chem.\* \*\*2025\*\*, \*23\*, 5847-5856](#)



**Total synthesis of the linker-armed tetrasaccharide repeating unit of the O-polysaccharide from *E. coli* O50**

**Subrata Das** and Balaram Mukhopadhyay

[\*Carbohydr. Res.\* \*\*2025\*\*, \*555\*, 109563](#)



**Chemical synthesis of the conjugation-ready tetra-antennary oligosaccharide of the O-polysaccharide from *Azospirillum griseum* L-25-5w-1T**

**Annesha Dutta** and Balaram Mukhopadhyay

[\*Carbohydr. Res.\* \*\*2025\*\*, \*551\*, 109430](#)



## The effect of neighbouring group participation and possible long range remote group participation in O-glycosylation

Rituparna Das and Balaram Mukhopadhyay

[Beilstein J. Org. Chem. 2025, 21, 369–406](#)



## Synthesis of the conjugation ready tetrasaccharide repeating unit of the O-polysaccharide from *Halomonas fontilapidosi* KR26

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[Carbohydr. Res. 2025, 549, 109371](#)



## Synthesis of the conjugation-ready $\beta$ -mannosamine-containing O-antigen repeat from *Vibrio cholerae* O14

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[Org. Biomol. Chem. 2025, 23, 1866–1873](#)

