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Synthesis of dimeric spirostanols linked through an 1,4-dimethylidenebenzene moiety by double $\text{BF}_3 \cdot \text{Et}_2\text{O}$ -catalyzed aldol condensation of steroid sapogenins and terephthalaldehyde

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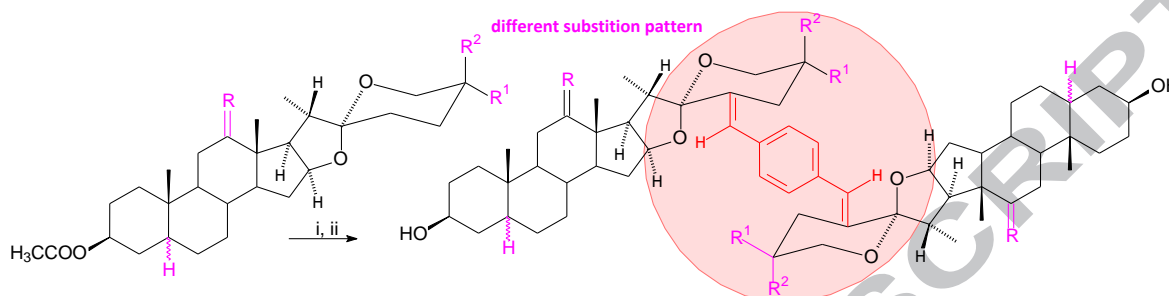


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Graphical Abstract

Synthesis of dimeric spirostanols linked through an 1,4-dimethylidenebenzene moiety by double $\text{BF}_3 \cdot \text{Et}_2\text{O}$ -catalyzed aldol condensation of steroid sapogenins and terephthalaldehyde. Manuel A. Ramos-Enríquez, Lucie Rárová, Martin A. Iglesias-Arteaga



a H-5 α , R = H,H, R¹ = CH₃, R² = H; **b** H-5 β , R = H,H, R¹ = H, R² = CH₃; **c** NO H-5 Δ^5 , R = H,H, R¹ = CH₃, R² = H, **d** H-5 α , R = O, R¹ = CH₃, R² = H

i) Terephthalaldehyde, $\text{BF}_3 \cdot \text{Et}_2\text{O}$, CH_2Cl_2 ; ii) CH_3ONa , CH_3OH , CH_2Cl_2

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