## Chemoenzymatic Routes to Enantiomerically Enriched and Polyoxygenated

 Perhydro-3,5a-methanoindeno[4,5-c]furans Related to the Tashironin Class of SesquiterpenesMukesh K. Sharma, Martin G. Banwell,* and Anthony C. Willis

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Figure S1: Structure of compound 10 (CCDC 1028238) with labelling of selected atoms. Anisotropic displacement ellipsoids show $30 \%$ probability levels. Hydrogen atoms are drawn as circles with small radii.


Figure S2: Structure of compound 13 (CCDC 1028241) with labelling of selected atoms. Anisotropic displacement ellipsoids show $30 \%$ probability levels. Hydrogen atoms are drawn as circles with small radii.


Figure S3a: Structure of molecule 1 of compound 17 (CCDC 1028242) with labelling of selected atoms. Anisotropic displacement ellipsoids show $30 \%$ probability levels. Hydrogen atoms are drawn as circles with small radii.


Figure S3b: Structure of molecule 2 of compound 17 (CCDC 1028242) with labelling of selected atoms. Anisotropic displacement ellipsoids show $30 \%$ probability levels. Hydrogen atoms are drawn as circles with small radii.


Figure S4: Structure of compound 20 (CCDC 1028244) with labelling of selected atoms. Anisotropic displacement ellipsoids show $30 \%$ probability levels. Hydrogen atoms are drawn as circles with small radii.


$100 \mathrm{MHz}{ }^{13} \mathrm{C}$ NMR Spectrum of Compound $\mathbf{1 1}$ (Recorded in $\mathrm{CDCl}_{3}$ )




$100 \mathrm{MHz}{ }^{13} \mathrm{C}$ NMR Spectrum of Compound $\mathbf{1 3}$ (Recorded in $\mathrm{CDCl}_{3}$ )




$100 \mathrm{MHz}{ }^{13} \mathrm{C}$ NMR Spectrum of Compound 15 (Recorded in $\mathrm{CDCl}_{3}$ )


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$100 \mathrm{MHz}{ }^{13} \mathrm{C}$ NMR Spectrum of Compound 17 (Recorded in $\mathrm{CDCl}_{3}$ )







