

*Supporting Information*

**First Total Synthesis of (+)-Goniothalesacetate and Syntheses of (+)-Altholactone, (+)-Gonioheptolide A, and (-)-Goniofupyrone by an Asymmetric Acetate Aldol approach**

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Copies of  $^1\text{H}$  and  $^{13}\text{C}$  spectra for all compounds

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