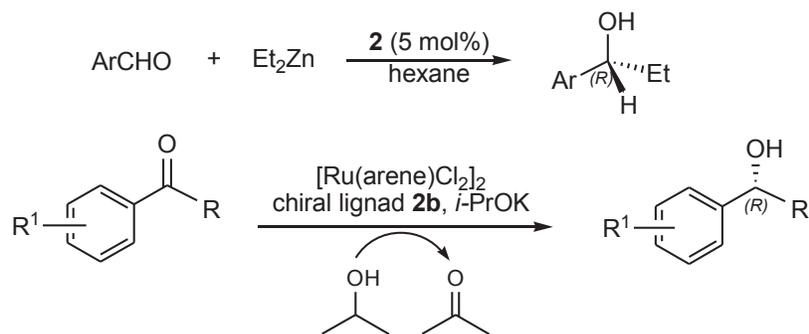


283 **Graphical abstract**

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287 Optically active (-)-ephedrine, (-)-norephedrine and (-)-prolinol were immobilized onto cubic
288 mesoporous MCM-48 silica. The supported ligands were efficiently promoted asymmetric
289 addition of diethylzinc to aldehydes and transfer hydrogenation of ketones to give the
290 optically active secondary alcohols with high yield and enantioselectivity.