## Gategory

Metal-Catalyzed Asymmetric
Synthesis and
Stereoselective Reactions

## Synthesis of Aminoindanes via a Novel C-H Activation-[3+2]-Annulation Strategy

## Overall transformation:






Selected substrate scope:

$96 \%$ yield

$99 \%$ yield

$79 \%$ yield

Proposed catalytic cycle: DABCO + product


Significance: Directed ortho C-H functionalization has become a hot topic in organic synthesis in recent years. A novel extension is reported by Nishimura and co-workers, who accomplished an iridium-catalyzed annulation of N -sulfonyl ketimines with 1,3-dienes to provide complex aminoindane derivatives.

