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## Impact of higher dimensional operators on Higgs boson phenomenology

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We discuss effects of anomalous Higgs boson couplings characterized by dimension-six operators on the Higgs boson production and decay processes at the LHC and the ILC. The decay pattern of the Higgs boson and the production cross section of  $gg \to H, e^+e^- \to t\bar{H}, e^+e^- \to ZHH$  and  $e^+e^- \to \nu\bar{\nu}HH$  can receive large modifications from the anomalous dim-6 couplings under the constraint from currently available data. We also find that the double Higgs boson production  $gg \to HH$  is very sensitive to the dimension-six top-Higgs operator. These effects can be detectable at future collider experiments.

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