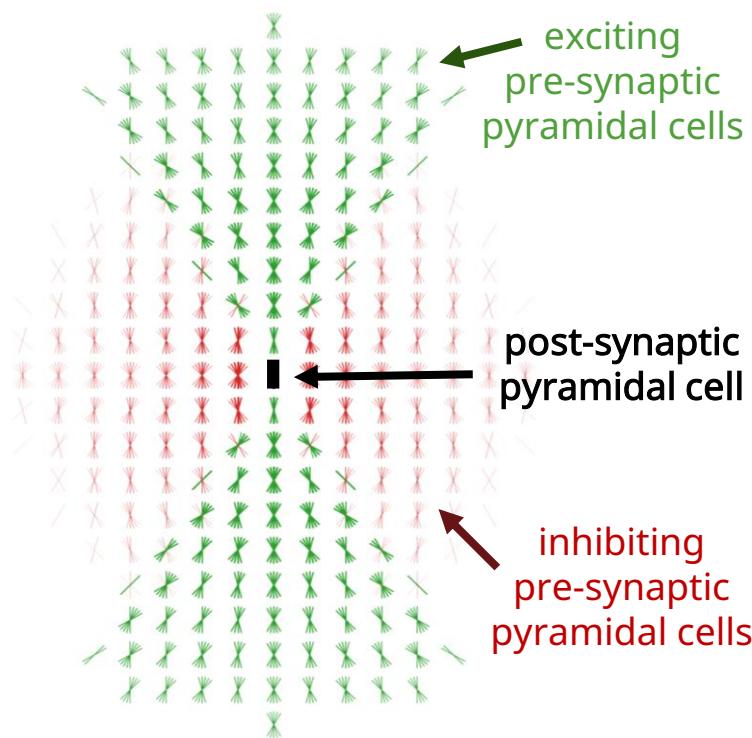
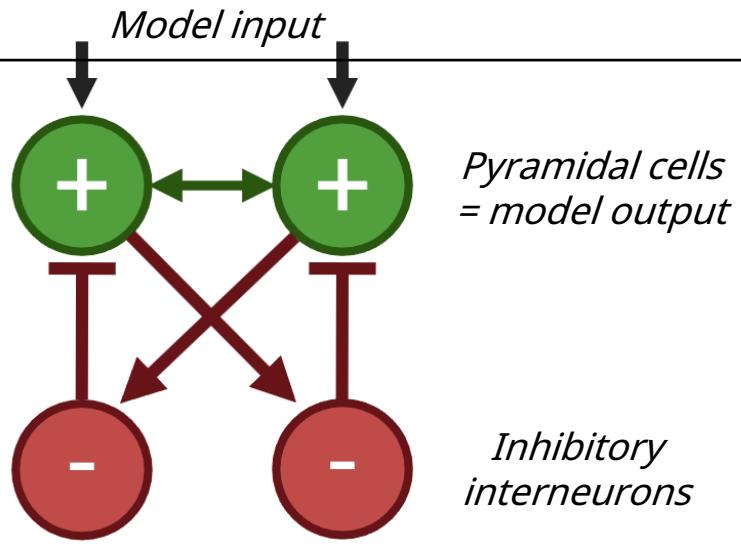


I. Neural Circuit Model of V1

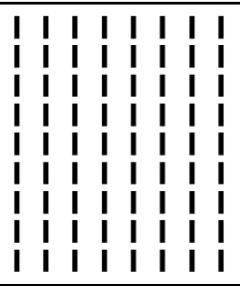


II. Calibration inputs and replicated model outputs

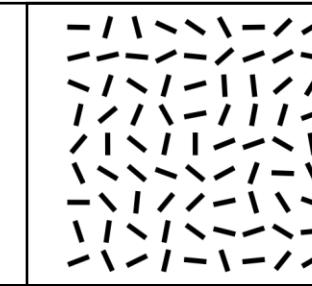
A: Bar without surround



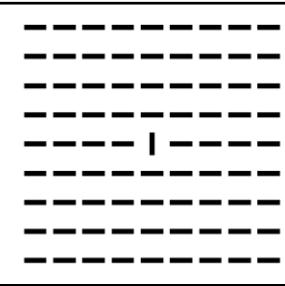
B: Iso-orientation



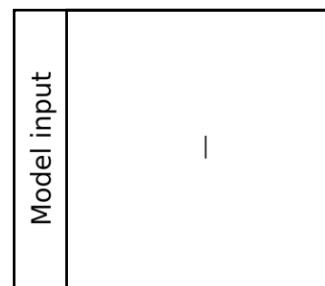
C: Random background



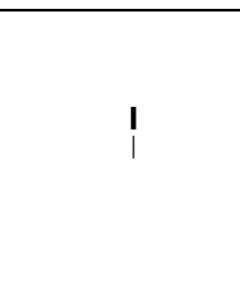
D: Cross-orientation



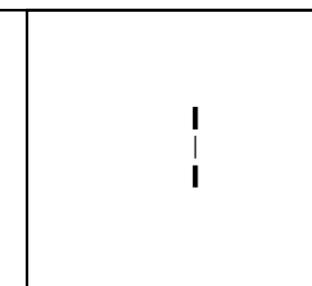
E: Bar without surround



F: With one flanker



G: With two flankers



H: With flanking line and noise

