TRYPTOPHAN
  \( \text{TDO \ (v)} \leftrightarrow \)
  \( \text{N-FORMYLKYNURENINE} \)
    \( \text{KF/spontaneous?} \)
    \( \text{L-KYNURENINE} \)
      \( \text{KMO \ (cn)} \leftrightarrow \)
      \( \text{3-HYDROXYKYNURENINE} \)
        \( \text{POS/spontaneous?} \)
        \( \text{OMMOCHROMES} \) (XANTHOMMATIN, DI-XANTHOMMATIN, OMMATIN-D)