Hypothesis

* **Reproduced effects**
  + **1.1) Reactivation of S1 when see S2**
    - Ref = (Zeithamova et al., 2012)
      * Gradual decoding of C when AB presented (interleaved presentation)
    - Ref = (Schlichting et al., 2014)
  + **1.2) Reactivation of S2 when see S1**
    - (Wang et al., 2020)
      * Although could just be reward
    - (Schlichting et al., 2014) ?
  + **2.1) Hippocampal role in association formation, at encoding AND decision time**
    - Ref = (Wimmer & Shohamy, 2012)
      * Decision bias in phase 3 correlated to hippocampus activity and hippo-striatum connectivity during phase 2
    - Ref = (Pajkert et al., 2017; Ryan et al., 2016) hippo lesion
  + 2.2) **OFC** role in asso and inference
    - Ref = (Bradfield et al., 2015; L. E. Frank et al., 2019; Hart et al., 2020; Jones et al., 2012; Sadacca et al., 2018; Spalding et al., 2018; Wang et al., 2020)
  + 2.3) **hippo-OFC** coupling
    - Ref = (Schlichting & Preston, 2016; Wang et al., 2020; Wikenheiser et al., 2017)
  + 2.4) structural volume of hippo
    - (Schlichting & Preston, 2016)
  + hippo-midbrain???
* **Congruence effect**
  + **3) Positive effect of congruence on memory performance**
    - Ref=(D. Frank et al., 2018)
      * Better episode M if congruent
    - Ref =(Atienza et al., 2011)
      * Better contextual memory if semantically congruent
      * (and correlated with stronger hippo theta)
      * Interpretation = less workload?
  + **4) Effect of congruence** = **reactivation earlier and less correlated with hippocampus**
    - (because hippo bold would reflect formation of new asso (Zeithamova et al., 2012) but it is already here so less necessary?)
    - Hypo deducted from (Wimmer & Shohamy, 2012; Zeithamova et al., 2012)?
    - Ref = (Ryan et al., 2016)
      * preexisting asso (semantic) compensate decline of associative learning in aging, but not in hippocampal lesion
      * = existing semantic link helps form asso
* **Conflict semantic link/structural link effect**
  + **5) more hippo bold to gate semantic auto asso**
    - Ref = pattern separation papers?
    - (Ryan et al., 2016)
  + 6) negative effect on behavior
    - Same refs?
  + 7) reactivation of wrong S1 and wrong S2
    - Same refs?