1. **Molecules in E. coli translation elongation**
   1. All sizes of molecules involved in elongation (actual + spherical approximation)
   2. Diffusivity of all molecules involved in elongation
   3. Charges of molecules involved in elongation
   4. Relative numbers of all molecules involved in elongation
2. **Previous models of E. coli translation rates**
   1. Single-particle methods (e.g., Fluitt 2007)
   2. Bulk methods w/ spatial considerations
   3. Bulk methods w/o spatial considerations
3. **Theories for what determines translation rate** 
   1. Hurst 2013
4. **Previous experimental measurements of E. coli translation rates**
5. **Transport in polydisperse suspensions theory/simulation**
6. **Transport in polydisperse suspensions experiments** 
   1. Short-range & long-range hydrodynamic interactions
   2. Confinement vs. unbound
   3. Effects of charge on transport
      1. Zeta potential summary
      2. Pecora 2005
      3. tRNA charge effects
   4. Effects of crowding on transport
   5. Effect of shape
   6. ??

11. Zia, R. N. & Brady, J. F. Microviscosity, microdiffusivity, and normal stresses in colloidal dispersions. *J. Rheol. (N. Y. N. Y).* **56,** 1175–1208 (2012).