

2. **TSA** (Transition State Analog) inhibitor:
  - a) 例: **Statin** 類 (TSAs of Mevalonate in **HMG-CoA reductase**):  
有 Lovastatin, Simvastatin, Atorvastatin etc. (降膽固醇用)
  - b) Activity: **TSA inhibitor > Suicide inhibitor**
  
3. Reversible inhibitor in study of Michaelis-Menten Kinetics
  
4. Inhibitors in electron transfer chain (ETC)
  - a. inhibition of electron transfer:
    - Rotenone, Barbiturate (complex I)**
    - Malonate** (complex II)
    - Antimycin A (complex III)
    - Cyanide, CO** (complex IV)
  - b. inhibition of ATP synthase:
    - Oligomycin** (Fo subunit)
    - DCMU (F1 subunit)
  - c. **uncoupler to produce body heat**:
    - DNP**/or **dinitrophenol** (H<sup>+</sup> inophore)
    - UCP1**/or **Thermogenin** (natural H<sup>+</sup> channel)
    - Vaninomycin** (K<sup>+</sup> inophore)
  - d. inhibition of ATP/ADP translocase:
    - Atractyloside**
  
5. Inhibitors in Glycolysis:
  - a. Iodoacetate (step6/ Glyceraldehyde 3-P dehydrogenase)
  - b. **Arsenate** (step7/ 3-Phosphoglycerate kinase)
  
6. Inhibitors in TCA cycle:
  - a. **Fluoroacetate** (step2/ Aconitase)
  - b. **Malonate** (step5/Succinate dehydrogenase)
  
7. Specific inhibitors:
  - a. **Malonate** for complex II in ETC, also in succinate dehydrogenase in TCA cycle  
(complex II  $\equiv$  succinate dehydrogenase)
  - b. **Iodoacetate** for Cysteine peptidase and glyceraldehyde-3-P dehydrogenase  
in Glycolysis