Development of chemical tools for promoting iPS cell self renewal

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Current method: 2D-culture

- Reprogramming
- Somatic cells
- Patient e.g. Parkinson's Disease

Our Aim

- Disease modelling
- Drug testing
- Toxicity testing

- Current method: 2D-culture
- Expensive recombinant growth factor FGF2

- Our Aim
- Anti E-cadherin antibody
- Replace FGF2 with small molecule mimics
- CHAVC
- (-)-Indolactam V
- 3D suspension culture with anti E-cadherin antibody
- Cheap, reliable, industrial scale single cell suspension culture