

Nobel prize in Chemistry

- Given to Frances H Arnold, George P Smith, Sir Gregory P Winter
- Directed evolution - allows chemist to speed up evolution process in laboratory, Using it enzymes can be tailored to catalyse reactions better, or catalyse new ones. Proteins can be made more selective for targets, leading to useful medicines.

Frances H Arnold

- Cal Tech
- 1993 - First directed evolution of enzymes

George P Smith

- University of Missouri Columbia
- 1985 - developed phage display
- Bacteriophage to evolve new proteins

Sir Gregory P Winter

- Cambridge
- Used technology to develop antibodies to make new drugs