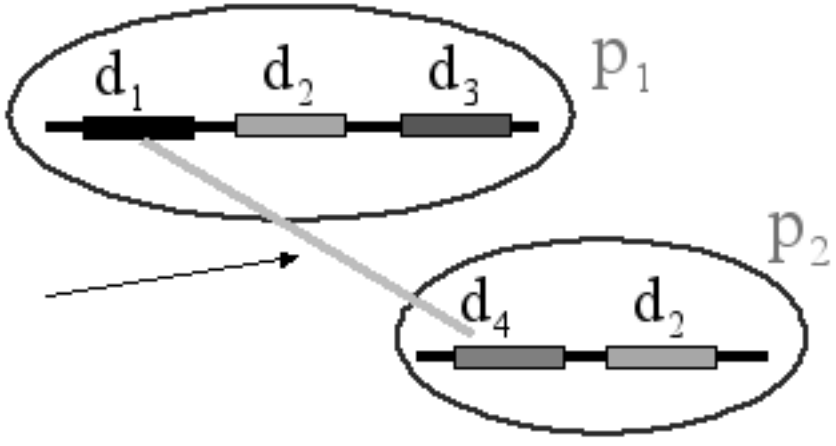
Motivating Example

- Extracting functional information from protein-protein interactions
  - Noisy, incomplete, generic, static data from high throughput experiments
- Typical proteins are composed of multiple domains
  - Independent unit (function, evolution, folding)
  - Behind protein-protein interactions there are protein domains interacting physically with one another.



Domain-domain interaction