

基因網路重建演算法

Spring 2008 課程大綱

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| 3 月 17 日 | Gene expression network analysis and applications to immunology |
| 3 月 24 日 | Transcriptome network component analysis with limited microarray data |
| 3 月 31 日 | Informative gene selection and design of regulatory networks using integer optimization |
| 4 月 7 日 | Inferring gene regulatory networks by integrating static and dynamic data |
| 4 月 14 日 | A network model for gene regulation |
| 4 月 21 日 | Inferring gene regulatory networks from temporal expression profiles under time-delay and noise |
| 4 月 28 日 | Monte Carlo simulation of a simple gene network yields new evolutionary insights |
| 5 月 5 日 | Consensus and Meta-analysis regulatory networks for combining multiple microarray gene expression datasets |
| 5 月 12 日 | Robust filtering circuit design for stochastic gene networks under intrinsic and extrinsic molecular noises |
| 5 月 19 日 | The use of logic relationships to model colon cancer gene expression networks with mRNA microarray data |
| 5 月 26 日 | Network component analysis: Reconstruction of regulatory signals in biological systems |
| 6 月 2 日 | Statistical Reconstruction of Transcription Factor Activity Using Michaelis – Menten Kinetics |