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Interactions (PPIs)

14. Predicting

Protein Interactions

16. Protein

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~~add gene~~

~~expression data to~~

~~an interaction~~

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(Y2H) system:

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of Our Distant~~

~~Relative How to~~

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String Cytoscape

Protein Association

Network Analysis

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1) Protein-Protein
Interaction

Network- PART 4

Part# 6: Protein

protein interaction

network Analysis

Using STRING |

Athar Mutahari

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Studying Protein-

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~~Binding analysis~~

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Identification

Network- PART 1

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Protein-protein
interaction

networks. Protein-

protein interactions

(PPIs) are essential

to almost every

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process in a cell, so understanding PPIs is crucial for understanding cell physiology in normal and disease states. It is also essential in drug development, since drugs can affect PPIs. Protein-protein interaction networks (PPIN) are mathematical

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representations of
the physical
contacts between
proteins in the cell.

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analysis of ...

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interaction (PPI)
networks describe
physical
interactions

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between proteins,
taking place to
mediate the
assembly of
proteins into
protein complexes,
or e.g., mediating
signaling/regulation
and transport
events in the cell.
Genetic interaction
(GI) networks deal
with pairs of
proteins for which

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there is information that they interact functionally (i.e., the absence or presence of both proteins has a synergetic effect on the cell physiology/phenotype).

Protein-Protein
Interaction
Networks - an
overview ...

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Interactions

Studying the topological structure (not to be confused with

molecular

structure) of protein-protein interaction

networks is a hot topic in systems biology research. In such a network, proteins are represented as

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vertices, and

interactions

And Networks

between protein

Identification

pairs are

represented as

edges.

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The Protein-Protein
Interactions

Network (PPI-Net)

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Interactions
is a new National
Network for Protein-
Protein Interactions
starting April 2011.

The Network was
jointly funded by
Engineering and
Physical Science
Research Council
(EPSRC),

Biotechnology and
Biological Sciences
Research Council
(BBSRC), and the

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Protein Protein

Medical Research
Council (MRC) from
April 2011 to
November 2013.

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This volume
explores
techniques that
study interactions
between proteins
in different species,

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Interactions

and combines them with context-specific data,

analysis of omics

datasets, and

assembles

individual

interactions into

higher-order

semantic units, i.e.,

protein complexes

and functional

modules. The

chapters in this

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book cover
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methods that solve

Identification
diverse tasks such
as the prediction of

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functional protein-
protein

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interactions; the
alignment-based

comparison of
interaction

networks by SANA;

Protein-Protein

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interactions (PPIs)
are physical
contacts of high
specificity
established
between two or
more protein
molecules as a
result of
biochemical events

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Interactions
steered by
interactions that
include
electrostatic forces,
hydrogen bonding
and the
hydrophobic effect.
Many are physical
contacts with
molecular
associations
between chains
that occur in a cell
or in a living

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biomolecular

Identification

context.

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This volume

explores

techniques that

study interactions

between proteins

in different species,

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Interactions
and combines
them with context-
specific data,
analysis of omics
datasets, and
assembles
individual
interactions into
higher-order
semantic units, i.e.,
protein complexes
and functional
modules.

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information can

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already be

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retrieved from a

number of online

resources. First,

primary interaction

databases (e.g.

9-13) which are

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Interactions
largely
collaborating (14,
15) provide
curated
experimental data
originating from a
variety of
biochemical,
biophysical and
genetic techniques.

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protein-protein
interaction

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networks ...

Protein-protein interactions in bacteria Like in eukaryotes, protein-protein interactions are essential in prokaryotic cells in which they also have a central role.

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bacteria: a promising and ...

Protein-Protein

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Organisms 5090;

Proteins 24.6 mio;

Interactions >2000

mio; Search)))))

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Protein Research;

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Molecular Biology

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Laboratory;

Credits. Funding;

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STRING: functional

protein association

networks

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interaction

networks,

integrated over the

tree of life Nucleic

Acids Res. 2015

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Jan;43(Database
issue):D447-52

doi: 10.1093/nar/gk

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Networks Proteins

are vital

macromolecules

that facilitate

diverse biological

processes at both

cellular and

systemic levels.

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This course

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Interactions

provides an introduction to the theory and concepts of

network analysis. It

explores some of the features of

protein-protein interaction

networks and their

implications for

biology. Finally, the

course discusses

the tools and

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strategies that can
be used to build
and analyse
biological
networks.

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Network analysis of
protein interaction
data | Training ...

The study of
modules is also
useful when
defining
intermodular

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Protein Protein

interactions and proteins. These are the edges/nodes that link different communities within a network. They can act as switches or high-level modulators that, for example, mediate cross-talk between different complexes or pathways.

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Properties of PPINs:
transitivity |

Network analysis of

...

Protein interaction
networks have
been used to

predict the function
of proteins of
unknown functions.

This is usually
based on the
assumption that

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Interactions
uncharacterized
proteins have
similar functions as
their interacting
proteins (guilt by
association).

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Genome wide
protein networks
have become
reality in recent
years due to high

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throughput

methods for
detecting protein
interactions.

Recent studies

show that a
networked repre-
sentation of

proteins provides a

more accurate

model of bio-

logical systems and

processes

compared to

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conventional pair-
wise analyses.

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Protein-protein interactions (PPIs) are extremely important in orchestrating the events in a cell. They form the basis for several

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Interactions

signal transduction

pathways in a cell,

as well as various

transcriptional

regulatory

networks.

Construction and

analysis of

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interaction ...

It integrates

protein-protein

interaction (PPI)

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Biology

data from public curated databases and builds a complete, non-redundant protein interaction dataset for six model organisms. In particular, it provides a variety of built-in tools to filter and analyze the networks for gaining biological

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