

## BIOLOGICAL FRAMEWORKS FOR ENGINEERS

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### Session #6 [nm: Protein Function]

#### General Objectives:

- ✓ Discuss general functions of proteins
- ✓ Overview of protein structures with respect to their function

#### Central Framework:

- ✓ A protein has specific binding domains that underlie their functional response and define its structural, scaffold, transport, regulatory, and motor activities.

#### Interactive Activity:

- ✓ Worksheet on the equilibrium chemistry of protein-ligand binding.

#### Session Outline:

I. Binding

II. Protein Functions

Enzymes

Structures

Signaling

Regulation

Transport

Motor proteins

III. Dissociation Constant

Affinity

Comparisons