**Titles from Nat. Struct. Molec Biol.**

Histone monoubiquitination by **Clock–Bmal1** complex marks **Per1 and Per2 genes** for circadian feedback

Translational arrest by a **prokaryotic signal recognition particle** is mediated by RNA interactions

**Linker Nups** connect the **nuclear pore complex inner ring** with the outer ring and transport channel

Structural basis for specific recognition of single-stranded RNA by **Toll-like receptor 13**

Structure-based energetics of protein interfaces guides **foot-and-mouth disease virus** vaccine design

Impact of **holdase chaperones Skp and SurA** on the folding of **β-barrel outer-membrane proteins**

Structure of a prokaryotic **fumarate transporter** reveals the architecture of the **SLC26 family**

Structure and multistate function of the **transmembrane electron transporter CcdA**

**Synaptotagmin-1** binds to **PIP2-containing membrane** but not to **SNAREs** at physiological ionic strength

**miR-128** represses **L1 retrotransposition** by binding directly to **L1 RNA**

Early embryonic-like cells are induced by downregulating replication-dependent chromatin assembly

The **tuberculosis necrotizing toxin** kills macrophages by hydrolyzing NAD

Recognition of the bacterial **alarmone ZMP** through long-distance association of two RNA subdomains

Probing **Gαi1 protein** activation at single–amino acid resolution

Structure of **Rab11–FIP3–Rabin8** reveals simultaneous binding of **FIP3 and Rabin8 effectors to Rab11**

Structure and mechanism of activity-based inhibition of the **EGF receptor** by **Mig6**

**Ubp6 deubiquitinase** controls conformational dynamics and substrate degradation of the **26S proteasome**

Structure and mechanism of the **Rubisco-assembly chaperone Raf1**

Crystal structures of the **PsbS protein** essential for photoprotection in plants

Recruitment and activation of the **ATM kinase** in the absence of DNA-damage sensors

The active site of **O-GlcNAc transferase** imposes constraints on substrate sequence

Structural basis for **plasmepsin V** inhibition that blocks export of malaria proteins to human erythrocytes

Structural basis for the **RING**-catalyzed synthesis of **K63-linked ubiquitin chains**

Recognition of microbial glycans by **human intelectin-1**

**SR protein kinases** promote splicing of nonconsensus introns

A unique binding mode enables **MCM2** to chaperone **histones H3–H4** at replication forks

Structure of human **ST8SiaIII sialyltransferase** provides insight into cell-surface polysialylation

Substrate-modulated **ADP/ATP-transporter** dynamics revealed by NMR relaxation dispersion

Small-RNA asymmetry is directly driven by mammalian **Argonautes**

Crystal structure, conformational fixation and entry-related interactions of mature ligand-free **HIV-1 Env**

The **Anopheles-midgut APN1** structure reveals a new malaria transmission–blocking **vaccine epitope**

The **pilus usher** controls protein interactions via domain masking and is functional as an oligomer

**Syntaxin** opening by the **MUN domain** underlies the function of **Munc13** in synaptic-vesicle priming

Dynamic binding mode of a **Synaptotagmin-1–SNARE complex** in solution

ATP binding drives substrate capture in an **ECF transporter** by a release-and-catch mechanism

Structure of the **Atg101–Atg13 complex** reveals essential roles of Atg101 in autophagy initiation

Crystal structure of human **stearoyl–coenzyme A desaturase** in complex with substrate