

Murray Stewart

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176
papers

10,472
citations

56
h-index

97
g-index

271
ext. papers

11,308
ext. citations

9.7
avg, IF

6.38
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 176 | Classical nuclear localization signals: definition, function, and interaction with importin alpha. <i>Journal of Biological Chemistry</i> , 2007 , 282, 5101-5 | 5.4 | 824 |
| 175 | Tropomyosin coiled-coil interactions: evidence for an unstaggered structure. <i>Journal of Molecular Biology</i> , 1975 , 98, 293-304 | 6.5 | 653 |
| 174 | Molecular mechanism of the nuclear protein import cycle. <i>Nature Reviews Molecular Cell Biology</i> , 2007 , 8, 195-208 | 48.7 | 642 |
| 173 | Structural basis for the interaction between FxFG nucleoporin repeats and importin-beta in nuclear trafficking. <i>Cell</i> , 2000 , 102, 99-108 | 56.2 | 376 |
| 172 | The 14-fold periodicity in alpha-tropomyosin and the interaction with actin. <i>Journal of Molecular Biology</i> , 1976 , 103, 271-98 | 6.5 | 361 |
| 171 | GLFG and FxFG nucleoporins bind to overlapping sites on importin-beta. <i>Journal of Biological Chemistry</i> , 2002 , 277, 50597-606 | 5.4 | 173 |
| 170 | Karyopherin flexibility in nucleocytoplasmic transport. <i>Current Opinion in Structural Biology</i> , 2006 , 16, 237-44 | 8.1 | 169 |
| 169 | Structural basis for the nuclear import of the human androgen receptor. <i>Journal of Cell Science</i> , 2008 , 121, 957-68 | 5.3 | 164 |
| 168 | Structural basis for nuclear import complex dissociation by RanGTP. <i>Nature</i> , 2005 , 435, 693-6 | 50.4 | 164 |
| 167 | How nematode sperm crawl. <i>Journal of Cell Science</i> , 2002 , 115, 367-384 | 5.3 | 159 |
| 166 | Structural basis for the assembly of a nuclear export complex. <i>Nature</i> , 2004 , 432, 872-7 | 50.4 | 158 |
| 165 | Interaction between NTF2 and xFxFG-containing nucleoporins is required to mediate nuclear import of RanGDP. <i>Journal of Molecular Biology</i> , 1999 , 293, 579-93 | 6.5 | 149 |
| 164 | Structural Biology and Regulation of Protein Import into the Nucleus. <i>Journal of Molecular Biology</i> , 2016 , 428, 2060-90 | 6.5 | 140 |
| 163 | Structural basis for molecular recognition between nuclear transport factor 2 (NTF2) and the GDP-bound form of the Ras-family GTPase Ran. <i>Journal of Molecular Biology</i> , 1998 , 277, 635-46 | 6.5 | 140 |
| 162 | How nematode sperm crawl. <i>Journal of Cell Science</i> , 2002 , 115, 367-84 | 5.3 | 137 |
| 161 | The 1.6 angstroms resolution crystal structure of nuclear transport factor 2 (NTF2). <i>Journal of Molecular Biology</i> , 1996 , 260, 422-31 | 6.5 | 124 |
| 160 | Sequence repeats in alpha-tropomyosin. <i>Journal of Molecular Biology</i> , 1975 , 98, 281-91 | 6.5 | 123 |

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|-----|--|------|-----|
| 159 | Structural basis for the interaction between NTF2 and nucleoporin FxFG repeats. <i>EMBO Journal</i> , 2002 , 21, 2843-53 | 13 | 121 |
| 158 | Nup50/Npap60 function in nuclear protein import complex disassembly and importin recycling. <i>EMBO Journal</i> , 2005 , 24, 3681-9 | 13 | 118 |
| 157 | Intermediate filament structure and assembly. <i>Current Opinion in Cell Biology</i> , 1993 , 5, 3-11 | 9 | 118 |
| 156 | Sus1, Cdc31, and the Sac3 CID region form a conserved interaction platform that promotes nuclear pore association and mRNA export. <i>Molecular Cell</i> , 2009 , 33, 727-37 | 17.6 | 113 |
| 155 | Separate binding sites on nuclear transport factor 2 (NTF2) for GDP-Ran and the phenylalanine-rich repeat regions of nucleoporins p62 and Nsp1p. <i>Journal of Molecular Biology</i> , 1996 , 263, 517-24 | 6.5 | 111 |
| 154 | Ratcheting mRNA out of the nucleus. <i>Molecular Cell</i> , 2007 , 25, 327-30 | 17.6 | 107 |
| 153 | Structural basis for the high-affinity binding of nucleoporin Nup1p to the <i>Saccharomyces cerevisiae</i> importin-beta homologue, Kap95p. <i>Journal of Molecular Biology</i> , 2005 , 349, 515-25 | 6.5 | 102 |
| 152 | Nuclear export of mRNA. <i>Trends in Biochemical Sciences</i> , 2010 , 35, 609-17 | 10.3 | 101 |
| 151 | Reconstitution in vitro of the motile apparatus from the amoeboid sperm of <i>Ascaris</i> shows that filament assembly and bundling move membranes. <i>Cell</i> , 1996 , 84, 105-14 | 56.2 | 100 |
| 150 | Electron microscopy of frozen-hydrated biological material. <i>Nature</i> , 1986 , 319, 631-6 | 50.4 | 97 |
| 149 | mRNA export from mammalian cell nuclei is dependent on GANP. <i>Current Biology</i> , 2010 , 20, 25-31 | 6.3 | 95 |
| 148 | Tropomyosin: evidence for no stagger between chains. <i>FEBS Letters</i> , 1975 , 53, 5-7 | 3.8 | 95 |
| 147 | Molecular mechanism of translocation through nuclear pore complexes during nuclear protein import. <i>FEBS Letters</i> , 2001 , 498, 145-9 | 3.8 | 92 |
| 146 | Functional and structural characterization of the mammalian TREX-2 complex that links transcription with nuclear messenger RNA export. <i>Nucleic Acids Research</i> , 2012 , 40, 4562-73 | 20.1 | 91 |
| 145 | Acting like actin. The dynamics of the nematode major sperm protein (msp) cytoskeleton indicate a push-pull mechanism for amoeboid cell motility. <i>Journal of Cell Biology</i> , 2000 , 149, 7-12 | 7.3 | 89 |
| 144 | Arrangement of myosin heads in relaxed thick filaments from frog skeletal muscle. <i>Journal of Molecular Biology</i> , 1986 , 192, 831-51 | 6.5 | 84 |
| 143 | Intermediate filaments: structure, assembly and molecular interactions. <i>Current Opinion in Cell Biology</i> , 1990 , 2, 91-100 | 9 | 83 |
| 142 | Fourteen actin-binding sites on tropomyosin?. <i>Nature</i> , 1975 , 257, 331-3 | 50.4 | 83 |

| | | | |
|-----|---|------|----|
| 141 | Structural basis for Nup2p function in cargo release and karyopherin recycling in nuclear import. <i>EMBO Journal</i> , 2003 , 22, 5358-69 | 13 | 81 |
| 140 | Structural basis for vertebrate filamin dimerization. <i>Structure</i> , 2005 , 13, 111-9 | 5.2 | 78 |
| 139 | Periodic charge distribution in the intermediate filament proteins desmin and vimentin. <i>Journal of Molecular Biology</i> , 1982 , 162, 693-8 | 6.5 | 75 |
| 138 | Structure of <i>Limulus</i> telson muscle thick filaments. <i>Journal of Molecular Biology</i> , 1981 , 153, 781-90 | 6.5 | 74 |
| 137 | Quantitative structural analysis of importin- β flexibility: paradigm for solenoid protein structures. <i>Structure</i> , 2010 , 18, 1171-83 | 5.2 | 72 |
| 136 | Structural basis for tropomyosin overlap in thin (actin) filaments and the generation of a molecular swivel by troponin-T. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7200-5 | 11.5 | 70 |
| 135 | Structural basis for the assembly and nucleic acid binding of the TREX-2 transcription-export complex. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 328-36 | 17.6 | 69 |
| 134 | Computer image processing of electron micrographs of biological structures with helical symmetry. <i>Journal of Electron Microscopy Technique</i> , 1988 , 9, 325-58 | | 69 |
| 133 | Novel binding of the mitotic regulator TPX2 (target protein for <i>Xenopus</i> kinesin-like protein 2) to importin- α . <i>Journal of Biological Chemistry</i> , 2010 , 285, 17628-35 | 5.4 | 68 |
| 132 | Nuclear protein import is decreased by engineered mutants of nuclear transport factor 2 (NTF2) that do not bind GDP-Ran. <i>Journal of Molecular Biology</i> , 1997 , 272, 716-30 | 6.5 | 67 |
| 131 | Structure of tropomyosin at 9 angstroms resolution. <i>Journal of Molecular Biology</i> , 1992 , 227, 441-52 | 6.5 | 67 |
| 130 | The troponin binding region of tropomyosin. Evidence for a site near residues 197 to 127. <i>Journal of Molecular Biology</i> , 1976 , 106, 1017-22 | 6.5 | 67 |
| 129 | The structure of the Q69L mutant of GDP-Ran shows a major conformational change in the switch II loop that accounts for its failure to bind nuclear transport factor 2 (NTF2). <i>Journal of Molecular Biology</i> , 1998 , 284, 1517-27 | 6.5 | 62 |
| 128 | Molecular interactions between the importin α/β heterodimer and proteins involved in vertebrate nuclear protein import. <i>Journal of Molecular Biology</i> , 1997 , 266, 722-32 | 6.5 | 61 |
| 127 | Functional significance of the interaction between the mRNA-binding protein, Nab2, and the nuclear pore-associated protein, Mlp1, in mRNA export. <i>Journal of Biological Chemistry</i> , 2008 , 283, 27130-43 | 5.4 | 61 |
| 126 | The molecular mechanism of transport of macromolecules through nuclear pore complexes. <i>Traffic</i> , 2000 , 1, 448-56 | 5.7 | 61 |
| 125 | Crystalline order to high resolution in the sheath of <i>Methanospirillum hungatei</i> : a cross-beta structure. <i>Journal of Molecular Biology</i> , 1985 , 183, 509-15 | 6.5 | 61 |
| 124 | Structure of magnesium paracrystals of alpha-tropomyosin. <i>Journal of Molecular Biology</i> , 1976 , 103, 251-69 | 6.9 | 61 |

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|-----|--|------|----|
| 123 | Structure of the C-terminal FG-nucleoporin binding domain of Tap/NXF1. <i>Nature Structural Biology</i> , 2002 , 9, 247-51 | | 58 |
| 122 | Dissecting the interactions between NTF2, RanGDP, and the nucleoporin XFXFG repeats. <i>Journal of Biological Chemistry</i> , 2000 , 275, 5874-9 | 5.4 | 58 |
| 121 | 2.5 Å resolution crystal structure of the motile major sperm protein (MSP) of <i>Ascaris suum</i> . <i>Journal of Molecular Biology</i> , 1996 , 263, 284-96 | 6.5 | 58 |
| 120 | Simulation of cell motility that reproduces the force-velocity relationship. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9141-6 | 11.5 | 56 |
| 119 | Structural basis for the interaction between the Tap/NXF1 UBA domain and FG nucleoporins at 1 Å resolution. <i>Journal of Molecular Biology</i> , 2003 , 326, 849-58 | 6.5 | 54 |
| 118 | Retraction in amoeboid cell motility powered by cytoskeletal dynamics. <i>Science</i> , 2003 , 302, 1405-7 | 33.3 | 53 |
| 117 | Solution NMR study of the interaction between NTF2 and nucleoporin FxFG repeats. <i>Journal of Molecular Biology</i> , 2003 , 333, 587-603 | 6.5 | 52 |
| 116 | Structural basis for binding the TREX2 complex to nuclear pores, GAL1 localisation and mRNA export. <i>Nucleic Acids Research</i> , 2014 , 42, 6686-97 | 20.1 | 51 |
| 115 | Structural predictions for the central domain of dystrophin. <i>FEBS Letters</i> , 1990 , 262, 87-92 | 3.8 | 51 |
| 114 | Selective nuclear export of specific classes of mRNA from mammalian nuclei is promoted by GANP. <i>Nucleic Acids Research</i> , 2014 , 42, 5059-71 | 20.1 | 50 |
| 113 | Structural basis for dimerization of the Dictyostelium gelation factor (ABP120) rod. <i>Nature Structural Biology</i> , 1999 , 6, 836-41 | | 49 |
| 112 | Molecular interactions in myosin assembly. Role of the 28-residue charge repeat in the rod. <i>Journal of Molecular Biology</i> , 1992 , 226, 7-13 | 6.5 | 47 |
| 111 | Promiscuous binding of Karyopherin β modulates FG nucleoporin barrier function and expedites NTF2 transport kinetics. <i>Biophysical Journal</i> , 2015 , 108, 918-927 | 2.9 | 46 |
| 110 | A physical model describing the interaction of nuclear transport receptors with FG nucleoporin domain assemblies. <i>ELife</i> , 2016 , 5, | 8.9 | 46 |
| 109 | Localized depolymerization of the major sperm protein cytoskeleton correlates with the forward movement of the cell body in the amoeboid movement of nematode sperm. <i>Journal of Cell Biology</i> , 1999 , 146, 1087-96 | 7.3 | 45 |
| 108 | Polyadenylation and nuclear export of mRNAs. <i>Journal of Biological Chemistry</i> , 2019 , 294, 2977-2987 | 5.4 | 43 |
| 107 | Dissection of the <i>Ascaris</i> sperm motility machinery identifies key proteins involved in major sperm protein-based amoeboid locomotion. <i>Molecular Biology of the Cell</i> , 2003 , 14, 5082-8 | 3.5 | 42 |
| 106 | Structure of the regular surface layer of <i>Spirillum putridiconchylium</i> . <i>Journal of Molecular Biology</i> , 1980 , 137, 1-8 | 6.5 | 42 |

| | | | |
|-----|---|------|----|
| 105 | Porcine platelet tropomyosin. Purification, characterization and paracrystal formation. <i>Journal of Molecular Biology</i> , 1981 , 153, 147-67 | 6.5 | 41 |
| 104 | Cross-bridge movement during muscle contraction. <i>Nature</i> , 1976 , 261, 606-8 | 50.4 | 40 |
| 103 | Constant and variable regions in glycoprotein hormone beta subunit sequences: implications for receptor binding specificity. <i>Journal of Molecular Biology</i> , 1977 , 116, 175-9 | 6.5 | 40 |
| 102 | Structural basis for Pan3 binding to Pan2 and its function in mRNA recruitment and deadenylation. <i>EMBO Journal</i> , 2014 , 33, 1514-26 | 13 | 38 |
| 101 | Structure of the N-terminal Mlp1-binding domain of the <i>Saccharomyces cerevisiae</i> mRNA-binding protein, Nab2. <i>Journal of Molecular Biology</i> , 2008 , 376, 1048-59 | 6.5 | 38 |
| 100 | A 48 kDa integral membrane phosphoprotein orchestrates the cytoskeletal dynamics that generate amoeboid cell motility in <i>Ascaris</i> sperm. <i>Journal of Cell Science</i> , 2003 , 116, 2655-63 | 5.3 | 37 |
| 99 | Nematode sperm locomotion. <i>Current Opinion in Cell Biology</i> , 1995 , 7, 13-7 | 9 | 37 |
| 98 | Development of Cell-Permeable, Non-Helical Constrained Peptides to Target a Key Protein-Protein Interaction in Ovarian Cancer. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 524-529 | 16.4 | 35 |
| 97 | Insights into the molecular mechanism of nuclear trafficking using nuclear transport factor 2 (NTF2). <i>Cell Structure and Function</i> , 2000 , 25, 217-25 | 2.2 | 35 |
| 96 | The structure and interactions of components of nuclear envelopes from <i>Xenopus</i> oocyte germinal vesicles observed by heavy metal shadowing. <i>Journal of Cell Science</i> , 1988 , 90, 409-423 | 5.3 | 35 |
| 95 | The principal mRNA nuclear export factor NXF1:NXT1 forms a symmetric binding platform that facilitates export of retroviral CTE-RNA. <i>Nucleic Acids Research</i> , 2015 , 43, 1883-93 | 20.1 | 33 |
| 94 | Introduction to the computer image processing of electron micrographs of two-dimensionally ordered biological structures. <i>Journal of Electron Microscopy Technique</i> , 1988 , 9, 301-24 | | 33 |
| 93 | Structural basis for the higher Ca(2+)-activation of the regulated actin-activated myosin ATPase observed with <i>Dictyostelium</i> /Tetrahymena actin chimeras. <i>Journal of Molecular Biology</i> , 2000 , 296, 579-95 | 6.5 | 32 |
| 92 | Structures of alpha-tropomyosin magnesium paracrystals. II. Stimulation of staining patterns from the sequence and some observations on the mechanism of positive staining. <i>Journal of Molecular Biology</i> , 1981 , 148, 411-25 | 6.5 | 31 |
| 91 | Structural basis for polyadenosine-RNA binding by Nab2 Zn fingers and its function in mRNA nuclear export. <i>Structure</i> , 2012 , 20, 1007-18 | 5.2 | 30 |
| 90 | Crystallization and initial X-ray diffraction characterization of complexes of FxFG nucleoporin repeats with nuclear transport factors. <i>Journal of Structural Biology</i> , 2000 , 131, 240-7 | 3.4 | 30 |
| 89 | Structural biology of the PCI-protein fold. <i>Bioarchitecture</i> , 2012 , 2, 118-23 | | 29 |
| 88 | How the assembly dynamics of the nematode major sperm protein generate amoeboid cell motility. <i>International Review of Cytology</i> , 2001 , 202, 1-34 | | 29 |

| | | | |
|----|--|------|----|
| 87 | 1.9 Å resolution crystal structure of the <i>Saccharomyces cerevisiae</i> Ran-binding protein Mog1p. <i>Journal of Molecular Biology</i> , 2000 , 299, 213-23 | 6.5 | 29 |
| 86 | Molecular architecture of the rod domain of the <i>Dictyostelium</i> gelation factor (ABP120). <i>Journal of Molecular Biology</i> , 1999 , 291, 1017-23 | 6.5 | 29 |
| 85 | Structural basis for the assembly and disassembly of mRNA nuclear export complexes. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012 , 1819, 578-92 | 6 | 28 |
| 84 | Structural basis for the interaction between yeast Spt-Ada-Gcn5 acetyltransferase (SAGA) complex components Sgf11 and Sus1. <i>Journal of Biological Chemistry</i> , 2010 , 285, 3850-3856 | 5.4 | 28 |
| 83 | Structural biology. Nuclear trafficking. <i>Science</i> , 2003 , 302, 1513-4 | 33.3 | 28 |
| 82 | Hydrostatic pressure shows that lamellipodial motility in <i>Ascaris</i> sperm requires membrane-associated major sperm protein filament nucleation and elongation. <i>Journal of Cell Biology</i> , 1998 , 140, 367-75 | 7.3 | 28 |
| 81 | The myosin filament. IX. Determination of subfilament positions by computer processing of electron micrographs. <i>Journal of Molecular Biology</i> , 1981 , 153, 381-92 | 6.5 | 28 |
| 80 | Electron microscopic location of protein thiol residues. <i>Nature</i> , 1978 , 274, 184-6 | 50.4 | 28 |
| 79 | Kap95p binding induces the switch loops of RanGDP to adopt the GTP-bound conformation: implications for nuclear import complex assembly dynamics. <i>Journal of Molecular Biology</i> , 2008 , 383, 772-82 | 6.5 | 27 |
| 78 | NTF2 monomer-dimer equilibrium. <i>Journal of Molecular Biology</i> , 2001 , 314, 465-77 | 6.5 | 27 |
| 77 | Structural basis for amoeboid motility in nematode sperm. <i>Nature Structural Biology</i> , 1998 , 5, 184-9 | | 26 |
| 76 | Coordination of Hpr1 and ubiquitin binding by the UBA domain of the mRNA export factor Mex67. <i>Molecular Biology of the Cell</i> , 2007 , 18, 2561-8 | 3.5 | 25 |
| 75 | The motile major sperm protein (MSP) from <i>Ascaris suum</i> is a symmetric dimer in solution. <i>Journal of Molecular Biology</i> , 1996 , 260, 251-60 | 6.5 | 25 |
| 74 | Association of gold-labelled nucleoplasmic with the centres of ring components of <i>Xenopus</i> oocyte nuclear pore complexes. <i>Journal of Molecular Biology</i> , 1990 , 213, 575-82 | 6.5 | 25 |
| 73 | Electrostatic interactions involving the extreme C terminus of nuclear export factor CRM1 modulate its affinity for cargo. <i>Journal of Biological Chemistry</i> , 2011 , 286, 29325-29335 | 5.4 | 24 |
| 72 | Functional analysis of the hydrophobic patch on nuclear transport factor 2 involved in interactions with the nuclear pore in vivo. <i>Journal of Biological Chemistry</i> , 2001 , 276, 38820-9 | 5.4 | 24 |
| 71 | Molecular basis of myosin assembly: coiled-coil interactions and the role of charge periodicities. <i>Journal of Cell Science</i> , 1991 , 14, 7-10 | 5.3 | 24 |
| 70 | Interaction between Ran and Mog1 is required for efficient nuclear protein import. <i>Journal of Biological Chemistry</i> , 2001 , 276, 41255-62 | 5.4 | 23 |

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|----|--|------|----|
| 69 | 2.6 A resolution crystal structure of helices of the motile major sperm protein (MSP) of <i>Caenorhabditis elegans</i> . <i>Journal of Molecular Biology</i> , 2002 , 319, 491-9 | 6.5 | 23 |
| 68 | Length of myosin rod and its proteolytic fragments determined by electron microscopy. <i>FEBS Letters</i> , 1984 , 168, 75-8 | 3.8 | 23 |
| 67 | Choreography of importin- β -CAS complex assembly and disassembly at nuclear pores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E1584-93 | 11.5 | 22 |
| 66 | A Ser/Thr kinase required for membrane-associated assembly of the major sperm protein motility apparatus in the amoeboid sperm of <i>Ascaris</i> . <i>Molecular Biology of the Cell</i> , 2007 , 18, 1816-25 | 3.5 | 22 |
| 65 | Crystallization and preliminary X-ray diffraction analysis of nuclear transport factor 2. <i>Journal of Structural Biology</i> , 1996 , 116, 326-9 | 3.4 | 22 |
| 64 | GANP enhances the efficiency of mRNA nuclear export in mammalian cells. <i>Nucleus</i> , 2010 , 1, 393-6 | 3.9 | 21 |
| 63 | Structural requirements for the ubiquitin-associated domain of the mRNA export factor Mex67 to bind its specific targets, the transcription elongation THO complex component Hpr1 and nucleoporin FXFG repeats. <i>Journal of Biological Chemistry</i> , 2009 , 284, 17575-83 | 5.4 | 21 |
| 62 | Dephosphorylation of major sperm protein (MSP) fiber protein 3 by protein phosphatase 2A during cell body retraction in the MSP-based amoeboid motility of <i>Ascaris</i> sperm. <i>Molecular Biology of the Cell</i> , 2009 , 20, 3200-8 | 3.5 | 21 |
| 61 | The motile major sperm protein (MSP) of <i>Ascaris suum</i> forms filaments constructed from two helical subfilaments. <i>Journal of Molecular Biology</i> , 1994 , 243, 60-71 | 6.5 | 21 |
| 60 | Expression and characterization of human lamin C. <i>FEBS Letters</i> , 1990 , 268, 301-5 | 3.8 | 21 |
| 59 | Mutational uncoupling of the role of Sus1 in nuclear pore complex targeting of an mRNA export complex and histone H2B deubiquitination. <i>Journal of Biological Chemistry</i> , 2009 , 284, 12049-56 | 5.4 | 20 |
| 58 | Nuclear pore structure and function. <i>Seminars in Cell Biology</i> , 1992 , 3, 267-77 | | 20 |
| 57 | The myosin filament. VII Changes in internal structure along the length of the filament. <i>Journal of Molecular Biology</i> , 1981 , 145, 421-40 | 6.5 | 20 |
| 56 | The molecular mechanism of translocation through the nuclear pore complex is highly conserved. <i>Journal of Cell Science</i> , 2002 , 115, 2997-3005 | 5.3 | 20 |
| 55 | Role of major sperm protein (MSP) in the protrusion and retraction of <i>Ascaris</i> sperm. <i>International Review of Cell and Molecular Biology</i> , 2012 , 297, 265-93 | 6 | 19 |
| 54 | Structure of MFP2 and its function in enhancing MSP polymerization in <i>Ascaris</i> sperm amoeboid motility. <i>Journal of Molecular Biology</i> , 2005 , 347, 583-95 | 6.5 | 19 |
| 53 | Structural Characterization of the <i>Chaetomium thermophilum</i> TREX-2 Complex and its Interaction with the mRNA Nuclear Export Factor Mex67:Mtr2. <i>Structure</i> , 2015 , 23, 1246-57 | 5.2 | 18 |
| 52 | The molecular mechanism of translocation through the nuclear pore complex is highly conserved. <i>Journal of Cell Science</i> , 2002 , 115, 2997-3005 | 5.3 | 18 |

| | | | |
|----|--|------|----|
| 51 | Engineered mutants in the switch II loop of Ran define the contribution made by key residues to the interaction with nuclear transport factor 2 (NTF2) and the role of this interaction in nuclear protein import. <i>Journal of Molecular Biology</i> , 1999 , 289, 565-77 | 6.5 | 17 |
| 50 | Structural basis for the dimerization of Nab2 generated by RNA binding provides insight into its contribution to both poly(A) tail length determination and transcript compaction in <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 2017 , 45, 1529-1538 | 20.1 | 16 |
| 49 | Domain organization within the nuclear export factor Mex67:Mtr2 generates an extended mRNA binding surface. <i>Nucleic Acids Research</i> , 2015 , 43, 1927-36 | 20.1 | 16 |
| 48 | The role of filament-packing dynamics in powering amoeboid cell motility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5390-5 | 11.5 | 16 |
| 47 | Chain register in myosin rod. <i>FEBS Letters</i> , 1982 , 140, 210-2 | 3.8 | 16 |
| 46 | Structural basis for the molecular recognition of polyadenosine RNA by Nab2 Zn fingers. <i>Nucleic Acids Research</i> , 2014 , 42, 672-80 | 20.1 | 15 |
| 45 | Nuclear magnetic resonance evidence for a flexible region at the C-terminus of alpha-tropomyosin. <i>Journal of Molecular Biology</i> , 1983 , 166, 219-25 | 6.5 | 15 |
| 44 | Molecular interactions in intermediate filaments. <i>BioEssays</i> , 1991 , 13, 597-600 | 4.1 | 14 |
| 43 | Pictures in cell biology. Structures of nuclear-transport components. <i>Trends in Cell Biology</i> , 1999 , 9, 310-18.3 | 13 | |
| 42 | Reconstitution of amoeboid motility in vitro identifies a motor-independent mechanism for cell body retraction. <i>Current Biology</i> , 2011 , 21, 1727-31 | 6.3 | 12 |
| 41 | Structural basis for the function of the <i>Saccharomyces cerevisiae</i> Gfd1 protein in mRNA nuclear export. <i>Journal of Biological Chemistry</i> , 2010 , 285, 20704-15 | 5.4 | 12 |
| 40 | Cell biology. Nuclear export of small RNAs. <i>Science</i> , 2009 , 326, 1195-6 | 33.3 | 12 |
| 39 | New crystal forms of the motile major sperm protein (MSP) of <i>Ascaris suum</i> . <i>Journal of Structural Biology</i> , 1996 , 116, 432-7 | 3.4 | 12 |
| 38 | Nuclear pores and macromolecular assemblies involved in nucleocytoplasmic transport. <i>Current Opinion in Structural Biology</i> , 1996 , 6, 162-5 | 8.1 | 12 |
| 37 | Solution structure of the motile major sperm protein (MSP) of <i>Ascaris suum</i> - evidence for two manganese binding sites and the possible role of divalent cations in filament formation. <i>Journal of Molecular Biology</i> , 1998 , 284, 1611-24 | 6.5 | 11 |
| 36 | Location of the binding site of the mannose-specific lectin comitin on F-actin. <i>Journal of Molecular Biology</i> , 1998 , 284, 1255-63 | 6.5 | 11 |
| 35 | ¹ H NMR study of long and short myosin S2 fragments. <i>FEBS Letters</i> , 1982 , 146, 293-296 | 3.8 | 11 |
| 34 | Selective Targeting of the TPX2 Site of Importin- β Using Fragment-Based Ligand Design. <i>ChemMedChem</i> , 2015 , 10, 1232-9 | 3.7 | 10 |

| | | |
|----|---|---------|
| 33 | Cytoskeleton dynamics powers nematode sperm motility. <i>Advances in Protein Chemistry</i> , 2005 , 71, 383-99 | 10 |
| 32 | Crystallization of the motile major sperm protein (MSP) of the nematode <i>Ascaris suum</i> . <i>Journal of Molecular Biology</i> , 1993 , 232, 298-300 | 6.5 10 |
| 31 | Crystalline sheets of tropomyosin. <i>Journal of Molecular Biology</i> , 1984 , 174, 231-8 | 6.5 10 |
| 30 | Structural basis for nuclear import selectivity of pioneer transcription factor SOX2. <i>Nature Communications</i> , 2021 , 12, 28 | 17.4 10 |
| 29 | A new crystal form of tropomyosin. Preliminary X-ray diffraction analysis. <i>Journal of Molecular Biology</i> , 1987 , 195, 219-23 | 6.5 9 |
| 28 | Cryo-electron microscopy of tropomyosin magnesium paracrystals. <i>Journal of Microscopy</i> , 1985 , 138, 53-60 | 1.9 9 |
| 27 | Dissecting the roles of Cse1 and Nup2 in classical NLS-cargo release in vivo. <i>Traffic</i> , 2020 , 21, 622-635 | 5.7 7 |
| 26 | Structure-function relationships in the Nab2 polyadenosine-RNA binding Zn finger protein family. <i>Protein Science</i> , 2019 , 28, 513-523 | 6.3 7 |
| 25 | Development of Cell-Permeable, Non-Helical Constrained Peptides to Target a Key Protein-Protein Interaction in Ovarian Cancer. <i>Angewandte Chemie</i> , 2017 , 129, 539-544 | 3.6 6 |
| 24 | Nuclear envelope dynamics and nucleocytoplasmic transport. <i>Journal of Cell Science</i> , 1991 , 14, 79-82 | 5.3 6 |
| 23 | Transmission electron microscopy of frozen hydrated biological material. <i>Electron Microscopy Reviews</i> , 1989 , 2, 117-21 | 6 |
| 22 | Preparation of shadowed nuclear envelopes from <i>Xenopus</i> oocyte germinal vesicles for electron microscopy. <i>Journal of Microscopy</i> , 1988 , 151, 115-26 | 1.9 6 |
| 21 | Structure of the Sac3 RNA-binding M-region in the <i>Saccharomyces cerevisiae</i> TREX-2 complex. <i>Nucleic Acids Research</i> , 2017 , 45, 5577-5585 | 20.1 5 |
| 20 | Structural characterization of the principal mRNA-export factor Mex67-Mtr2 from <i>Chaetomium thermophilum</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015 , 71, 876-88 | 1.1 5 |
| 19 | Crystallization and preliminary X-Ray diffraction characterization of a dimerizing fragment of the rod domain of the Dictyostelium gelation factor (ABP-120). <i>Journal of Structural Biology</i> , 1997 , 120, 192-204 | 5 |
| 18 | Crystallization and preliminary X-ray diffraction analysis of the <i>Saccharomyces cerevisiae</i> ran-binding protein Mog1p. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000 , 56, 229-31 | 5 |
| 17 | Structure and Function of the TREX-2 Complex. <i>Sub-Cellular Biochemistry</i> , 2019 , 93, 461-470 | 5.5 5 |
| 16 | Computer Analysis of Ordered Microbiological Objects 1986 , 333-364 | 5 |

| | | | |
|----|---|------|---|
| 15 | Paramyosin: chemical evidence for chain heterogeneity. <i>FEBS Letters</i> , 1975 , 58, 16-8 | 3.8 | 4 |
| 14 | 1.25 Å resolution structure of an RNA 20-mer that binds to the TREX2 complex. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015 , 71, 1318-21 | 1.1 | 4 |
| 13 | Structural and calorimetric studies demonstrate that the hepatocyte nuclear factor 1 (HNF1) transcription factor is imported into the nucleus via a monopartite NLS sequence. <i>Journal of Structural Biology</i> , 2016 , 195, 273-281 | 3.4 | 4 |
| 12 | Muscle structure and function--an explanation. <i>Equine Veterinary Journal</i> , 1976 , 8, 17-9 | 2.4 | 3 |
| 11 | Organic stains for electron microscopy. <i>Journal of Microscopy</i> , 1973 , 97, 381-3 | 1.9 | 3 |
| 10 | Electron Microscopy of Biological Macromolecules 1990 , 9-39 | | 3 |
| 9 | The Sac3 TPR-like region in the <i>Saccharomyces cerevisiae</i> TREX-2 complex is more extensive but independent of the CID region. <i>Journal of Structural Biology</i> , 2016 , 195, 316-324 | 3.4 | 2 |
| 8 | Molecular machinery of nuclear trafficking. <i>Journal of Cell Science</i> , 2002 , 115, 2001-2002 | 5.3 | 1 |
| 7 | Ran in Nucleocytoplasmic Transport 2014 , 109-124 | | 1 |
| 6 | The Role of Repeating Sequence Motifs in Interactions Between Helical Coiled-Coils such as Myosin, Tropomyosin and Intermediate-Filament Proteins. <i>Springer Series in Biophysics</i> , 1989 , 150-159 | | 1 |
| 5 | MERS-CoV ORF4b employs an unusual binding mechanism to target IMP2 and block innate immunity.. <i>Nature Communications</i> , 2022 , 13, 1604 | 17.4 | 1 |
| 4 | Distinct effects on mRNA export factor GANP underlie neurological disease phenotypes and alter gene expression depending on intron content. <i>Human Molecular Genetics</i> , 2020 , 29, 1426-1439 | 5.6 | 0 |
| 3 | Coils and Supercoils in Proteins. <i>Solid Mechanics and Its Applications</i> , 2002 , 499-511 | 0.4 | |
| 2 | Quality control of mRNA export: An evolutionarily conserved zinc finger protein mediates preferential export of properly processed mRNA to the cytoplasm. <i>FASEB Journal</i> , 2008 , 22, 992.1 | 0.9 | |
| 1 | Resolution A Biological Perspective 1990 , 255-266 | | |