

Naweed I Syed

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Spatiotemporal Patterns of Menin Localization in Developing Murine Brain: Co-Expression with the Elements of Cholinergic Synaptic Machinery. <i>Cells</i> , 2021, 10, 1215.	4.1	3
2	A tuned gelatin methacryloyl (GelMA) hydrogel facilitates myelination of dorsal root ganglia neurons in vitro. <i>Materials Science and Engineering C</i> , 2021, 126, 112131.	7.3	15
3	Three dimensional microelectrodes enable high signal and spatial resolution for neural seizure recordings in brain slices and freely behaving animals. <i>Scientific Reports</i> , 2021, 11, 21952.	3.3	4
4	Neuronal Menin Overexpression Rescues Learning and Memory Phenotype in CA1-Specific $\hat{\pm}7$ nAChRs KD Mice. <i>Cells</i> , 2021, 10, 3286.	4.1	9
5	Taurine Promotes Neurite Outgrowth and Synapse Development of Both Vertebrate and Invertebrate Central Neurons. <i>Frontiers in Synaptic Neuroscience</i> , 2020, 12, 29.	2.5	21
6	Neurotrophic factors and target-specific retrograde signaling interactions define the specificity of classical and neuropeptide cotransmitter release at identified <i>Lymnaea</i> synapses. <i>Scientific Reports</i> , 2020, 10, 13526.	3.3	4
7	Linear oblique craniectomy: A novel method of minimally invasive subdural grid insertion. <i>Clinical and Translational Neuroscience</i> , 2020, 4, 2514183X2097308.	0.9	0
8	Anesthetics: from modes of action to unconsciousness and neurotoxicity. <i>Journal of Neurophysiology</i> , 2019, 122, 760-787.	1.8	27
9	Uncovering the Cellular and Molecular Mechanisms of Synapse Formation and Functional Specificity Using Central Neurons of <i>Lymnaea stagnalis</i> . <i>ACS Chemical Neuroscience</i> , 2018, 9, 1928-1938.	3.5	6
10	A Novel Approach to Primary Cell Culture for <i>Octopus vulgaris</i> Neurons. <i>Frontiers in Physiology</i> , 2018, 9, 220.	2.8	11
11	General anesthetics and cytotoxicity: possible implications for brain health. <i>Drug and Chemical Toxicology</i> , 2017, 40, 241-249.	2.3	18
12	Tumor suppressor menin is required for subunit-specific nAChR $\hat{\pm}5$ transcription and nAChR-dependent presynaptic facilitation in cultured mouse hippocampal neurons. <i>Scientific Reports</i> , 2017, 7, 1768.	3.3	11
13	Mechanisms of Anesthetic Action and Neurotoxicity: Lessons from Molluscs. <i>Frontiers in Physiology</i> , 2017, 8, 1138.	2.8	14
14	The Mock Academic Faculty Position Competition: A Pilot Professional and Career Development Opportunity for Postdoctoral Fellows. <i>Academic Medicine</i> , 2016, 91, 1661-1665.	1.6	8
15	A novel bio-mimicking, planar nano-edge microelectrode enables enhanced long-term neural recording. <i>Scientific Reports</i> , 2016, 6, 34553.	3.3	15
16	Two proteolytic fragments of menin coordinate the nuclear transcription and postsynaptic clustering of neurotransmitter receptors during synaptogenesis between <i>Lymnaea</i> neurons. <i>Scientific Reports</i> , 2016, 6, 31779.	3.3	14
17	The mitochondrial division inhibitor Mdivi-1 rescues mammalian neurons from anesthetic-induced cytotoxicity. <i>Molecular Brain</i> , 2016, 9, 35.	2.6	38
18	Graded hypoxia acts through a network of distributed peripheral oxygen chemoreceptors to produce changes in respiratory behaviour and plasticity. <i>European Journal of Neuroscience</i> , 2015, 42, 1858-1871.	2.6	3

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19	Trophic Factor-Induced Activity â€”Signatureâ€”™ Regulates the Functional Expression of Postsynaptic Excitatory Acetylcholine Receptors Required for Synaptogenesis. <i>Scientific Reports</i> , 2015, 5, 9523.	3.3	10
20	Effect of planar microelectrode geometry on neuron stimulation: Finite element modeling and experimental validation of the efficient electrode shape. <i>Journal of Neuroscience Methods</i> , 2015, 248, 51-58.	2.5	14
21	Menin: A Tumor Suppressor That Mediates Postsynaptic Receptor Expression and Synaptogenesis between Central Neurons of <i>Lymnaea stagnalis</i> . <i>PLoS ONE</i> , 2014, 9, e111103.	2.5	14
22	Neuronal Somata and Extrasomal Compartments Play Distinct Roles during Synapse Formation between <i>Lymnaea</i> Neurons. <i>Journal of Neuroscience</i> , 2014, 34, 11304-11315.	3.6	7
23	Silver nanoparticles (AgNPs) cause degeneration of cytoskeleton and disrupt synaptic machinery of cultured cortical neurons. <i>Molecular Brain</i> , 2013, 6, 29.	2.6	143
24	A planar microelectrode array for simultaneous detection of electrically evoked dopamine release from distinct locations of a single isolated neuron. <i>Analyst</i> , The, 2013, 138, 2833.	3.5	7
25	Synaptic Metaplasticity Underlies Tetanic Potentiation in <i>Lymnaea</i> : A Novel Paradigm. <i>PLoS ONE</i> , 2013, 8, e78056.	2.5	2
26	Control of Breathing in Invertebrate Model Systems. , 2012, 2, 1745-1766.		5
27	Culturing and Electrophysiology of Cells on NRCC Patch-clamp Chips. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	3
28	A PVAc-Based Benzophenone-8 Filter as an Alternative to Commercially Available Dichroic Filters for Monitoring Calcium Activity in Live Neurons via Fura-2 AM. <i>IEEE Photonics Journal</i> , 2012, 4, 1004-1012.	2.0	8
29	Molluscan neurons in culture: shedding light on synapse formation and plasticity. <i>Journal of Molecular Histology</i> , 2012, 43, 383-399.	2.2	14
30	Lidocaine treatment during synapse reformation periods permanently inhibits NGF-induced excitation in an identified reconstructed synapse of <i>Lymnaea stagnalis</i> . <i>Journal of Anesthesia</i> , 2012, 26, 45-53.	1.7	19
31	Neuronal Mechanisms of Oxygen Chemoreception: An Invertebrate Perspective. <i>Advances in Experimental Medicine and Biology</i> , 2012, 758, 7-17.	1.6	4
32	Recordings of cultured neurons and synaptic activity using patch-clamp chips. <i>Journal of Neural Engineering</i> , 2011, 8, 034002.	3.5	16
33	From Understanding Cellular Function to Novel Drug Discovery: The Role of Planar Patch-Clamp Array Chip Technology. <i>Frontiers in Pharmacology</i> , 2011, 2, 51.	3.5	23
34	The antidepressant fluoxetine but not citalopram suppresses synapse formation and synaptic transmission between <i>Lymnaea</i> neurons by perturbing presynaptic and postsynaptic machinery. <i>European Journal of Neuroscience</i> , 2011, 34, 221-234.	2.6	11
35	A novel form of presynaptic CaMKII-dependent short-term potentiation between <i>Lymnaea</i> neurons. <i>European Journal of Neuroscience</i> , 2011, 34, 569-577.	2.6	16
36	High-fidelity patch-clamp recordings from neurons cultured on a polymer microchip. <i>Biomedical Microdevices</i> , 2010, 12, 977-985.	2.8	19

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37	A novel silicon patch-clamp chip permits high-fidelity recording of ion channel activity from functionally defined neurons. <i>Biotechnology and Bioengineering</i> , 2010, 107, 593-600.	3.3	24
38	Antidepressant fluoxetine suppresses neuronal growth from both vertebrate and invertebrate neurons and perturbs synapse formation between <i>Lymnaea</i> neurons. <i>European Journal of Neuroscience</i> , 2010, 31, 994-1005.	2.6	24
39	A novel approach reveals temporal patterns of synaptogenesis between the isolated growth cones of <i>Lymnaea</i> neurons. <i>European Journal of Neuroscience</i> , 2010, 32, 1442-1451.	2.6	2
40	Quercetin Targets Cysteine String Protein (CSP β) and Impairs Synaptic Transmission. <i>PLoS ONE</i> , 2010, 5, e11045.	2.5	25
41	Trophic Factor-Induced Intracellular Calcium Oscillations Are Required for the Expression of Postsynaptic Acetylcholine Receptors during Synapse Formation between <i>Lymnaea</i> Neurons. <i>Journal of Neuroscience</i> , 2009, 29, 2167-2176.	3.6	22
42	Postsynaptic expression of an epidermal growth factor receptor regulates cholinergic synapse formation between identified molluscan neurons. <i>European Journal of Neuroscience</i> , 2008, 27, 2043-2056.	2.6	14
43	Peripheral oxygen-sensing cells directly modulate the output of an identified respiratory central pattern generating neuron. <i>European Journal of Neuroscience</i> , 2007, 25, 3537-3550.	2.6	15
44	In Vitro Characterization of L-Type Calcium Channels and Their Contribution to Firing Behavior in Invertebrate Respiratory Neurons. <i>Journal of Neurophysiology</i> , 2006, 95, 42-52.	1.8	36
45	An identified central pattern-generating neuron co-ordinates sensory-motor components of respiratory behavior in <i>Lymnaea</i> . <i>European Journal of Neuroscience</i> , 2006, 23, 94-104.	2.6	27
46	Ryanodine receptor-transmitter release site coupling increases quantal size in a synapse-specific manner. <i>European Journal of Neuroscience</i> , 2006, 24, 1591-1605.	2.6	10
47	Local Synthesis of Actin-Binding Protein $\bar{\alpha}$ -Thymosin Regulates Neurite Outgrowth. <i>Journal of Neuroscience</i> , 2006, 26, 152-157.	3.6	75
48	Neuronal networks and synaptic plasticity: understanding complex system dynamics by interfacing neurons with silicon technologies. <i>Journal of Experimental Biology</i> , 2006, 209, 2312-2319.	1.7	24
49	Peptidomics of a Single Identified Neuron Reveals Diversity of Multiple Neuropeptides with Convergent Actions on Cellular Excitability. <i>Journal of Neuroscience</i> , 2006, 26, 518-529.	3.6	39
50	Identification and Functional Expression of a Family of Nicotinic Acetylcholine Receptor Subunits in the Central Nervous System of the Mollusc <i>Lymnaea stagnalis</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 1680-1691.	3.4	59
51	Synapse Formation and Plasticity: The Roles of Local Protein Synthesis. <i>Neuroscientist</i> , 2005, 11, 228-237.	3.5	15
52	Neuron-Semiconductor Chip with Chemical Synapse between Identified Neurons. <i>Physical Review Letters</i> , 2004, 92, 038102.	7.8	60
53	Uncoupling of Calcium Channel $\hat{1}$ and $\hat{2}$ Subunits in Developing Neurons. <i>Journal of Biological Chemistry</i> , 2004, 279, 41157-41167.	3.4	23
54	Differential Proteomics Reveals Multiple Components in Retrogradely Transported Axoplasm After Nerve Injury. <i>Molecular and Cellular Proteomics</i> , 2004, 3, 510-520.	3.8	54

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55	Transplantation and restoration of functional synapses between an identified neuron and its targets in the intact brain of <i>Lymnaea stagnalis</i> . <i>Synapse</i> , 2004, 51, 186-193.	1.2	8
56	Neurotrophic activities of trk receptors conserved over 600 million years of evolution. <i>Journal of Neurobiology</i> , 2004, 60, 12-20.	3.6	28
57	Structure and Function of AChBP, Homologue of the Ligand-Binding Domain of the Nicotinic Acetylcholine Receptor. <i>Annals of the New York Academy of Sciences</i> , 2003, 998, 81-92.	3.8	54
58	Synaptogenesis in the CNS: An Odyssey from Wiring Together to Firing Together. <i>Journal of Physiology</i> , 2003, 552, 1-11.	2.9	62
59	Calcium Channel Structural Determinants of Synaptic Transmission between Identified Invertebrate Neurons. <i>Journal of Biological Chemistry</i> , 2003, 278, 4258-4267.	3.4	88
60	Synapse Formation Between Isolated Axons Requires Presynaptic Soma and Redistribution of Postsynaptic AChRs. <i>Journal of Neurophysiology</i> , 2003, 89, 2611-2619.	1.8	21
61	Long-Term Memory Survives Nerve Injury and the Subsequent Regeneration Process. <i>Learning and Memory</i> , 2003, 10, 44-54.	1.3	29
62	Anesthetic Treatment Blocks Synaptogenesis But Not Neuronal Regeneration of Cultured <i>Lymnaea</i> Neurons. <i>Journal of Neurophysiology</i> , 2003, 90, 2232-2239.	1.8	35
63	Electrophysiological Differences in the CPG Aerial Respiratory Behavior Between Juvenile and Adult <i>Lymnaea</i> . <i>Journal of Neurophysiology</i> , 2003, 90, 983-992.	1.8	57
64	Synapse Number and Synaptic Efficacy Are Regulated by Presynaptic cAMP and Protein Kinase A. <i>Journal of Neuroscience</i> , 2003, 23, 4146-4155.	3.6	25
65	Trophic Factor-Induced Excitatory Synaptogenesis Involves Postsynaptic Modulation of Nicotinic Acetylcholine Receptors. <i>Journal of Neuroscience</i> , 2002, 22, 505-514.	3.6	45
66	Changes in the Activity of a CPG Neuron After the Reinforcement of an Operantly Conditioned Behavior in <i>Lymnaea</i> . <i>Journal of Neurophysiology</i> , 2002, 88, 1915-1923.	1.8	86
67	The Soma of RPeD1 Must Be Present for Long-Term Memory Formation of Associative Learning in <i>Lymnaea</i> . <i>Journal of Neurophysiology</i> , 2002, 88, 1584-1591.	1.8	130
68	Specificity of synapse formation between <i>Lymnaea</i> heart motor neuron and muscle fiber is maintained in vitro in a soma-muscle configuration. <i>Synapse</i> , 2002, 46, 66-71.	1.2	3
69	Development of Ca ²⁺ hotspots between <i>Lymnaea</i> neurons during synaptogenesis. <i>Journal of Physiology</i> , 2002, 539, 53-65.	2.9	32
70	Synapse Formation between Central Neurons Requires Postsynaptic Expression of the <i>MEN1</i> Tumor Suppressor Gene. <i>Journal of Neuroscience</i> , 2001, 21, RC161-RC161.	3.6	35
71	Functional Implications of Neurotransmitter Expression during Axonal Regeneration: Serotonin, But Not Peptides, Auto-Regulate Axon Growth of an Identified Central Neuron. <i>Journal of Neuroscience</i> , 2001, 21, 5597-5606.	3.6	61
72	Retrograde degeneration of neurite membrane structural integrity of nerve growth cones following in vitro exposure to mercury. <i>NeuroReport</i> , 2001, 12, 733-737.	1.2	100

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73	A glia-derived acetylcholine-binding protein that modulates synaptic transmission. <i>Nature</i> , 2001, 411, 261-268.	27.8	572
74	Target cell contact suppresses neurite outgrowth from soma-soma paired <i>Lymnaea</i> neurons. , 2000, 42, 357-369.		21
75	Different extrinsic trophic factors regulate neurite outgrowth and synapse formation between identified <i>Lymnaea</i> neurons. <i>Journal of Neurobiology</i> , 2000, 44, 20-30.	3.6	22
76	Transmitter- Receptor Interactions between Growth Cones of Identified <i>Lymnaea</i> Neurons Determine Target Cell Selection In Vitro. <i>Journal of Neuroscience</i> , 2000, 20, 8077-8086.	3.6	44
77	Operant Conditioning in <i>Lymnaea</i> : Evidence for Intermediate- and Long-term Memory. <i>Learning and Memory</i> , 2000, 7, 140-150.	1.3	123
78	Excitatory Synaptogenesis between Identified <i>Lymnaea</i> Neurons Requires Extrinsic Trophic Factors and Is Mediated by Receptor Tyrosine Kinases. <i>Journal of Neuroscience</i> , 1999, 19, 9306-9312.	3.6	70
79	Neural Changes after Operant Conditioning of the Aerial Respiratory Behavior in <i>Lymnaea stagnalis</i> . <i>Journal of Neuroscience</i> , 1999, 19, 1836-1843.	3.6	133
80	In Situ and In Vitro Identification and Characterization of Cardiac Ganglion Neurons in the Crab, <i>Carcinus maenas</i> . <i>Journal of Neurophysiology</i> , 1999, 81, 2964-2976.	1.8	54
81	Sevoflurane Induced Suppression of Inhibitory Synaptic Transmission Between Soma-Soma Paired <i>Lymnaea</i> Neurons. <i>Journal of Neurophysiology</i> , 1999, 82, 2812-2819.	1.8	13
82	Trophic Factor-Induced Plasticity of Synaptic Connections Between Identified <i>Lymnaea</i> Neurons. <i>Learning and Memory</i> , 1999, 6, 307-316.	1.3	44
83	<i>In Vitro</i> Synaptogenesis between the Somata of Identified <i>Lymnaea</i> Neurons Requires Protein Synthesis But Not Extrinsic Growth Factors or Substrate Adhesion Molecules. <i>Journal of Neuroscience</i> , 1997, 17, 7839-7849.	3.6	91
84	Halothane affects both inhibitory and excitatory synaptic transmission at a single identified molluscan synapse, in vivo and in vitro. <i>Brain Research</i> , 1996, 714, 38-48.	2.2	20
85	Ciliary neurotrophic factor, unlike nerve growth factor, supports neurite outgrowth but not synapse formation by adult <i>Lymnaea</i> neurons. , 1996, 29, 293-303.		34
86	Rhythmic activities of isolated and clustered pacemaker neurons and photoreceptors of <i>Aplysia</i> retina in culture. , 1996, 31, 16-28.		5
87	A technique for the primary dissociation of neurons from restricted regions of the vertebrate CNS. <i>Journal of Neuroscience Methods</i> , 1995, 56, 57-70.	2.5	9
88	A neuronal network from the mollusc <i>Lymnaea stagnalis</i> . <i>Brain Research</i> , 1994, 645, 201-214.	2.2	10
89	Nitric oxide synthase-immunoreactive cells in the CNS and periphery of <i>Lymnaea</i> . <i>NeuroReport</i> , 1994, 5, 1277-1280.	1.2	92
90	Target Cell Selection and Specific Synapse Formation By Identified <i>Lymnaea</i> Neurons in Vitro. <i>Animal Biology</i> , 1993, 44, 327-338.	0.4	3

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91	Specific In vitro synaptogenesis between identified Lymnaea and Helisoma neurons. NeuroReport, 1992, 3, 793-796.	1.2	16