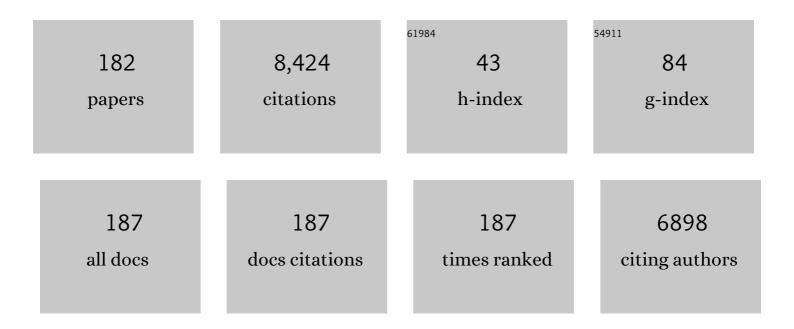
## Colleen M Niswender

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Synthesis and characterization of chiral 6-azaspiro[2.5]octanes as potent and selective antagonists of the M4 muscarinic acetylcholine receptor. Bioorganic and Medicinal Chemistry Letters, 2022, 56, 128479.  | 2.2 | 1         |
| 2  | Acute restraint stress redirects prefrontal cortex circuit function through mGlu5 receptor plasticity on somatostatin-expressing interneurons. Neuron, 2022, 110, 1068-1083.e5.   | 8.1 | 36        |
| 3  | Exploration of group II metabotropic glutamate receptor modulation in mouse models of Rett syndrome and MECP2 Duplication syndrome. Neuropharmacology, 2022, 209, 109022.   | 4.1 | 3         |
| 4  | Development of <b>VU6019650</b> : A Potent, Highly Selective, and Systemically Active Orthosteric<br>Antagonist of the M <sub>5</sub> Muscarinic Acetylcholine Receptor for the Treatment of Opioid Use<br>Disorder. Journal of Medicinal Chemistry, 2022, 65, 6273-6286.       | 6.4 | 8         |
| 5  | mGlu1-mediated restoration of prefrontal cortex inhibitory signaling reverses social and cognitive deficits in an NMDA hypofunction model in mice. Neuropsychopharmacology, 2022, 47, 1826-1835.  | 5.4 | 4         |
| 6  | Clinical and Preclinical Evidence for M1 Muscarinic Acetylcholine Receptor Potentiation as a Therapeutic Approach for Rett Syndrome. Neurotherapeutics, 2022, 19, 1340-1352.  | 4.4 | 3         |
| 7  | Optimized Administration of the M <sub>4</sub> PAM VU0467154 Demonstrates Broad Efficacy, but<br>Limited Effective Concentrations in <i>Mecp2</i> <sup><i>+/</i>–</sup> Mice. ACS Chemical<br>Neuroscience, 2022, 13, 1891-1901.  | 3.5 | 0         |
| 8  | Lead optimization of the VU0486321 series of mGlu1 PAMs. Part 4: SAR reveals positive cooperativity<br>across multiple mGlu receptor subtypes leading to subtype unselective PAMs. Bioorganic and<br>Medicinal Chemistry Letters, 2021, 32, 127724.                             | 2.2 | 2         |
| 9  | Technologies for Screening of mGlu Receptor Allosteric Modulators. Neuromethods, 2021, , 1-22.  | 0.3 | 0         |
| 10 | Discovery and optimization of a novel CNS penetrant series of mGlu4 PAMs based on a 1,4-thiazepane<br>core with in vivo efficacy in a preclinical Parkinsonian model. Bioorganic and Medicinal Chemistry<br>Letters, 2021, 37, 127838.  | 2.2 | 3         |
| 11 | Input-specific regulation of glutamatergic synaptic transmission in the medial prefrontal cortex by mGlu <sub>2</sub> /mGlu <sub>4</sub> receptor heterodimers. Science Signaling, 2021, 14, .  | 3.6 | 14        |
| 12 | Profiling beneficial and potential adverse effects of MeCP2 overexpression in a hypomorphic Rett syndrome mouse model. Genes, Brain and Behavior, 2021, , 12752.  | 2.2 | 10        |
| 13 | Frontal cortex genetic ablation of metabotropic glutamate receptor subtype 3 (mGlu3) impairs postsynaptic plasticity and modulates affective behaviors. Neuropsychopharmacology, 2021, 46, 2148-2157.   | 5.4 | 8         |
| 14 | Regulation and functional consequences of mGlu <sub>4</sub> RNA editing. Rna, 2021, 27, 1220-1240.  | 3.5 | 3         |
| 15 | Discovery of the First Selective M <sub>4</sub> Muscarinic Acetylcholine Receptor Antagonists with<br><i>in Vivo</i> Antiparkinsonian and Antidystonic Efficacy. ACS Pharmacology and Translational<br>Science, 2021, 4, 1306-1321.   | 4.9 | 11        |
| 16 | Discovery of VU6028418: A Highly Selective and Orally Bioavailable M4 Muscarinic Acetylcholine<br>Receptor Antagonist. ACS Medicinal Chemistry Letters, 2021, 12, 1342-1349.  | 2.8 | 6         |
| 17 | Discovery of "Molecular Switches―within a Series of mGlu <sub>5</sub> Allosteric Ligands Driven by<br>a "Magic Methyl―Effect Affording Both PAMs and NAMs with <i>In Vivo</i> Activity, Derived from an<br>M <sub>1</sub> PAM Chemotype. ACS Bio & Med Chem Au, 2021, 1, 21-30. | 3.7 | 3         |
| 18 | Activating mGlu3 Metabotropic Glutamate Receptors Rescues Schizophrenia-like Cognitive Deficits<br>Through Metaplastic Adaptations Within the Hippocampus. Biological Psychiatry, 2021, 90, 385-398.  | 1.3 | 27        |

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|----|--|-----|-----------|
| 19 | Discovery of a novel class of heteroaryl-pyrrolidinones as positive allosteric modulators of the muscarinic acetylcholine receptor M1. Bioorganic and Medicinal Chemistry Letters, 2021, 47, 128193.                                       | 2.2 | 2         |
| 20 | Positive allosteric modulators (PAMs) of the group II metabotropic glutamate receptors: Design, synthesis, and evaluation as ex-vivo tool compounds. Bioorganic and Medicinal Chemistry Letters, 2021, 50, 128342.                         | 2.2 | 2         |
| 21 | A GRM7 mutation associated with developmental delay reduces mGlu7 expression and produces neurological phenotypes. JCI Insight, 2021, 6, .   | 5.0 | 10        |
| 22 | Development of structurally distinct tricyclic M4 positive allosteric modulator (PAM) chemotypes -<br>Part 2. Bioorganic and Medicinal Chemistry Letters, 2021, 53, 128416.  | 2.2 | 0         |
| 23 | mGlu1 potentiation enhances prelimbic somatostatin interneuron activity to rescue schizophrenia-like physiological and cognitive deficits. Cell Reports, 2021, 37, 109950.   | 6.4 | 21        |
| 24 | Discovery of structurally distinct tricyclic M4 positive allosteric modulator (PAM) chemotypes.<br>Bioorganic and Medicinal Chemistry Letters, 2020, 30, 126811.   | 2.2 | 3         |
| 25 | Discovery of a novel 2,3-dimethylimidazo[1,2-a]pyrazine-6-carboxamide M4 positive allosteric modulator (PAM) chemotype. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 126812.  | 2.2 | 2         |
| 26 | Synthesis and SAR of a series of mGlu7 NAMs based on an<br>ethyl-8-methoxy-4-(4-phenylpiperazin-1-yl)quinoline carboxylate core. Bioorganic and Medicinal<br>Chemistry Letters, 2020, 30, 127529.  | 2.2 | 5         |
| 27 | Discovery of VU6027459: A First-in-Class Selective and CNS Penetrant mGlu <sub>7</sub> Positive Allosteric Modulator Tool Compound. ACS Medicinal Chemistry Letters, 2020, 11, 1773-1779.  | 2.8 | 8         |
| 28 | Phenotypic profiling of <scp>mGlu<sub>7</sub></scp> knockout mice reveals new implications for neurodevelopmental disorders. Genes, Brain and Behavior, 2020, 19, e12654.  | 2.2 | 25        |
| 29 | Synthesis and pharmacological evaluation of bivalent tethered ligands to target the mGlu2/4 heterodimeric receptor results in a compound with mGlu2/2 homodimer selectivity. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127212. | 2.2 | 3         |
| 30 | Discovery of Tricyclic Triazolo- and Imidazopyridine Lactams as M <sub>1</sub> Positive Allosteric Modulators. ACS Chemical Neuroscience, 2019, 10, 1035-1042.   | 3.5 | 5         |
| 31 | Evaluation of Synthetic Cytochrome P <sub>450</sub> -Mimetic Metalloporphyrins To Facilitate<br>"Biomimetic―Biotransformation of a Series of mGlu <sub>5</sub> Allosteric Ligands. ACS Omega, 2019,<br>4, 12782-12789.                     | 3.5 | 2         |
| 32 | Further exploration of an N-aryl phenoxyethoxy pyridinone-based series of mGlu3 NAMs: Challenging<br>SAR, enantiospecific activity and in vivo efficacy. Bioorganic and Medicinal Chemistry Letters, 2019, 29,<br>2670-2674.               | 2.2 | 0         |
| 33 | Discovery of a novel 3,4-dimethylcinnoline carboxamide M4 positive allosteric modulator (PAM)<br>chemotype via scaffold hopping. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 126678.   | 2.2 | 7         |
| 34 | SAR inspired by aldehyde oxidase (AO) metabolism: Discovery of novel, CNS penetrant tricyclic M4 PAMs. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 2224-2228.  | 2.2 | 4         |
| 35 | mGlu <sub>5</sub> Positive Allosteric Modulators Facilitate Long-Term Potentiation via Disinhibition<br>Mediated by mGlu <sub>5</sub> -Endocannabinoid Signaling. ACS Pharmacology and Translational<br>Science, 2019, 2, 198-209.         | 4.9 | 19        |
| 36 | VU6005806/AZN-00016130, an advanced M4 positive allosteric modulator (PAM) profiled as a potential preclinical development candidate. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 1714-1718.                                     | 2.2 | 6         |

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|----|---|-------------------|-----------|
| 37 | A Coordinated Attack: Rett Syndrome Therapeutic Development. Trends in Pharmacological Sciences, 2019, 40, 233-236.   | 8.7               | 11        |
| 38 | Surveying heterocycles as amide bioisosteres within a series of mGlu7 NAMs: Discovery of VU6019278.<br>Bioorganic and Medicinal Chemistry Letters, 2019, 29, 1211-1214.   | 2.2               | 14        |
| 39 | <i>In Vitro</i> to <i>in Vivo</i> Translation of Allosteric Modulator Concentration-Effect<br>Relationships: Implications for Drug Discovery. ACS Pharmacology and Translational Science, 2019, 2,<br>442-452.  | 4.9               | 7         |
| 40 | Biased M <sub>1</sub> receptor–positive allosteric modulators reveal role of phospholipase D in M<br><sub>1</sub> -dependent rodent cortical plasticity. Science Signaling, 2019, 12, .   | 3.6               | 9         |
| 41 | Novel M4 positive allosteric modulators derived from questioning the role and impact of a presumed intramolecular hydrogen-bonding motif in Î <sup>2</sup> -amino carboxamide-harboring ligands. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 362-366.   | 2.2               | 4         |
| 42 | Discovery of 4-alkoxy-6-methylpicolinamide negative allosteric modulators of metabotropic glutamate receptor subtype 5. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 47-50.  | 2.2               | 5         |
| 43 | Discovery of an Orally Bioavailable and Central Nervous System (CNS) Penetrant mGlu <sub>7</sub><br>Negative Allosteric Modulator (NAM) in Vivo Tool Compound:<br><i>N</i> -(2-(1 <i>H</i> -1,2,4-triazol-1-yl)-5-(trifluoromethoxy)phenyl)-4-(cyclopropylmethoxy)-3-methoxybenzamic<br>(VU6012962). Journal of Medicinal Chemistry. 2019. 62. 1690-1695.             | de <sup>6.4</sup> | 20        |
| 44 | Discovery of Novel Central Nervous System Penetrant Metabotropic Glutamate Receptor Subtype 2 (mGlu <sub>2</sub> ) Negative Allosteric Modulators (NAMs) Based on Functionalized Pyrazolo[1,5- <i>a</i> )pyrimidine-5-carboxamide and Thieno[3,2- <i>b</i> )pyridine-5-carboxamide Cores. Journal of Medicinal Chemistry, 2019, 62, 378-384.                          | 6.4               | 17        |
| 45 | The discovery of VU0652957 (VU2957, Valiglurax): SAR and DMPK challenges en route to an mGlu4 PAM<br>development candidate. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 342-346.  | 2.2               | 6         |
| 46 | Discovery of VU2957 (Valiglurax): An mGlu4 Positive Allosteric Modulator Evaluated as a Preclinical<br>Candidate for the Treatment of Parkinson's Disease. ACS Medicinal Chemistry Letters, 2019, 10, 255-260.  | 2.8               | 17        |
| 47 | Discovery, Structure–Activity Relationship, and Biological Characterization of a Novel Series of<br>6-((1 <i>H</i> -Pyrazolo[4,3- <i>b</i> ]pyridin-3-yl)amino)-benzo[ <i>d</i> ]isothiazole-3-carboxamides as<br>Positive Allosteric Modulators of the Metabotropic Glutamate Receptor 4 (mGlu <sub>4</sub> ).<br>Journal of Medicinal Chemistry, 2019, 62, 342-358. | 6.4               | 16        |
| 48 | Discovery of 6-(pyrimidin-5-ylmethyl)quinoline-8-carboxamide negative allosteric modulators of metabotropic glutamate receptor subtype 5. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 1679-1685.  | 2.2               | 2         |
| 49 | PF-06827443 Displays Robust Allosteric Agonist and Positive Allosteric Modulator Activity in High<br>Receptor Reserve and Native Systems. ACS Chemical Neuroscience, 2018, 9, 2218-2224.  | 3.5               | 19        |
| 50 | Genetic Reduction or Negative Modulation of mGlu <sub>7</sub> Does Not Impact Anxiety and Fear<br>Learning Phenotypes in a Mouse Model of <i>MECP2</i> Duplication Syndrome. ACS Chemical<br>Neuroscience, 2018, 9, 2210-2217.  | 3.5               | 9         |
| 51 | Contextual Fear Extinction Induces Hippocampal Metaplasticity Mediated by Metabotropic Glutamate<br>Receptor 5. Cerebral Cortex, 2018, 28, 4291-4304.   | 2.9               | 17        |
| 52 | A Novel M <sub>1</sub> PAM VU0486846 Exerts Efficacy in Cognition Models without Displaying Agonist Activity or Cholinergic Toxicity. ACS Chemical Neuroscience, 2018, 9, 2274-2285.  | 3.5               | 43        |
| 53 | M1-positive allosteric modulators lacking agonist activity provide the optimal profile for enhancing cognition. Neuropsychopharmacology, 2018, 43, 1763-1771.   | 5.4               | 56        |
| 54 | Differential Pharmacology and Binding of mGlu <sub>2</sub> Receptor Allosteric Modulators.<br>Molecular Pharmacology, 2018, 93, 526-540.  | 2.3               | 27        |

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|----|--|----------------------|-------------------|
| 55 | Total RNA Sequencing of Rett Syndrome Autopsy Samples Identifies the M <sub>4</sub> Muscarinic<br>Receptor as a Novel Therapeutic Target. Journal of Pharmacology and Experimental Therapeutics, 2018,<br>365, 291-300.  | 2.5                  | 29                |
| 56 | Cognitive enhancement and antipsychotic-like activity following repeated dosing with the selective M4 PAM VU0467154. Neuropharmacology, 2018, 128, 492-502.  | 4.1                  | 35                |
| 57 | Metabotropic Glutamate Receptor 7: A New Therapeutic Target in Neurodevelopmental Disorders.<br>Frontiers in Molecular Neuroscience, 2018, 11, 387.  | 2.9                  | 33                |
| 58 | Activated CaMKIIα Binds to the mGlu5 Metabotropic Glutamate Receptor and Modulates Calcium Mobilization. Molecular Pharmacology, 2018, 94, 1352-1362.  | 2.3                  | 15                |
| 59 | VU6007477, a Novel M1 PAM Based on a Pyrrolo[2,3-b]pyridine Carboxamide Core Devoid of Cholinergic<br>Adverse Events. ACS Medicinal Chemistry Letters, 2018, 9, 917-922.   | 2.8                  | 11                |
| 60 | Discovery and characterization of N-(1,3-dialkyl-1H-indazol-6-yl)-1H-pyrazolo[4,3-b]pyridin-3-amine<br>scaffold as mGlu4 positive allosteric modulators that mitigate CYP1A2 induction liability. Bioorganic<br>and Medicinal Chemistry Letters, 2018, 28, 2641-2646.  | 2.2                  | 9                 |
| 61 | The discovery of VU0486846: steep SAR from a series of M1 PAMs based on a novel benzomorpholine core. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2175-2179.   | 2.2                  | 10                |
| 62 | Discovery of a Novel Series of Orally Bioavailable and CNS Penetrant Glucagon-like Peptide-1 Receptor<br>(GLP-1R) Noncompetitive Antagonists Based on a<br>1,3-Disubstituted-7-aryl-5,5-bis(trifluoromethyl)-5,8-dihydropyrimido[4,5- <i>d</i> ]pyrimidine-2,4(1 <i>H</i> ,3 <i<br>Core. Journal of Medicinal Chemistry, 2017, 60, 1611-1616.</i<br> | >H< <b>6</b> ;4)-dic | one <sup>10</sup> |
| 63 | Accelerating Precision Drug Development and Drug Repurposing by Leveraging Human Genetics. Assay and Drug Development Technologies, 2017, 15, 113-119.   | 1.2                  | 30                |
| 64 | Optimization of M 4 positive allosteric modulators (PAMs): The discovery of VU0476406, a non-human primate in vivo tool compound for translational pharmacology. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2296-2301.  | 2.2                  | 17                |
| 65 | Synthesis and evaluation of 4,6-disubstituted pyrimidines as CNS penetrant pan -muscarinic<br>antagonists with a novel chemotype. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2479-2483.   | 2.2                  | 2                 |
| 66 | Challenges in the development of an M 4 PAM preclinical candidate: The discovery, SAR, and in vivo characterization of a series of 3-aminoazetidine-derived amides. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 2990-2995.   | 2.2                  | 16                |
| 67 | novel, CNS penetrant pan-muscarinic antagonists. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 3576-3581.  | 2.2                  | 10                |
| 68 | Discovery of <i>N</i> -(5-Fluoropyridin-2-yl)-6-methyl-4-(pyrimidin-5-yloxy)picolinamide (VU0424238): A<br>Novel Negative Allosteric Modulator of Metabotropic Glutamate Receptor Subtype 5 Selected for<br>Clinical Evaluation. Journal of Medicinal Chemistry, 2017, 60, 5072-5085.  | 6.4                  | 26                |
| 69 | Diverse Effects on M <sub>1</sub> Signaling and Adverse Effect Liability within a Series of M <sub>1</sub> Ago-PAMs. ACS Chemical Neuroscience, 2017, 8, 866-883.  | 3.5                  | 44                |
| 70 | Discovery of VU0467485/AZ13713945: An M <sub>4</sub> PAM Evaluated as a Preclinical Candidate for the Treatment of Schizophrenia. ACS Medicinal Chemistry Letters, 2017, 8, 233-238.   | 2.8                  | 43                |
| 71 | Challenges in the development of an M 4 PAM in vivo tool compound: The discovery of VU0467154 and unexpected DMPK profiles of close analogs. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 171-175.  | 2.2                  | 32                |
| 72 | Discovery of a novel 2,4-dimethylquinoline-6-carboxamide M 4 positive allosteric modulator (PAM)<br>chemotype via scaffold hopping. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 4999-5001.   | 2.2                  | 15                |

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|----|---|------|-----------|
| 73 | Challenges in the development of an M 4 PAM preclinical candidate: The discovery, SAR, and biological characterization of a series of azetidine-derived tertiary amides. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 5179-5184.   | 2.2  | 17        |
| 74 | Discovery of a novel, CNS penetrant M4 PAM chemotype based on a<br>6-fluoro-4-(piperidin-1-yl)quinoline-3-carbonitrile core. Bioorganic and Medicinal Chemistry Letters,<br>2017, 27, 4274-4279.  | 2.2  | 8         |
| 75 | Discovery of imidazo[1,2-a]-, [1,2,4]triazolo[4,3-a]-, and [1,2,4]triazolo[1,5-a]pyridine-8-carboxamide<br>negative allosteric modulators of metabotropic glutamate receptor subtype 5. Bioorganic and<br>Medicinal Chemistry Letters, 2017, 27, 4858-4866.                         | 2.2  | 8         |
| 76 | Discovery of VU6005649, a CNS Penetrant mGlu <sub>7/8</sub> Receptor PAM Derived from a Series of Pyrazolo[1,5- <i>a</i> ]pyrimidines. ACS Medicinal Chemistry Letters, 2017, 8, 1110-1115.   | 2.8  | 28        |
| 77 | Design and Synthesis of <i>N</i> -Aryl Phenoxyethoxy Pyridinones as Highly Selective and CNS<br>Penetrant mGlu <sub>3</sub> NAMs. ACS Medicinal Chemistry Letters, 2017, 8, 925-930.  | 2.8  | 38        |
| 78 | mGlu <sub>7</sub> potentiation rescues cognitive, social, and respiratory phenotypes in a mouse model of Rett syndrome. Science Translational Medicine, 2017, 9, .  | 12.4 | 55        |
| 79 | Design and Synthesis of mGlu <sub>2</sub> NAMs with Improved Potency and CNS Penetration Based on a Truncated Picolinamide Core. ACS Medicinal Chemistry Letters, 2017, 8, 919-924.   | 2.8  | 33        |
| 80 | When Enough Is Enough: Decision Criteria for Moving a Known Drug into Clinical Testing for a New<br>Indication in the Absence of Preclinical Efficacy Data. Assay and Drug Development Technologies, 2017,<br>15, 354-361.  | 1.2  | 4         |
| 81 | VU6010608, a Novel mGlu <sub>7</sub> NAM from a Series of<br><i>N</i> -(2-(1 <i>H</i> -1,2,4-Triazol-1-yl)-5-(trifluoromethoxy)phenyl)benzamides. ACS Medicinal<br>Chemistry Letters, 2017, 8, 1326-1330.   | 2.8  | 18        |
| 82 | Cholinergic Projections to the Substantia Nigra Pars Reticulata Inhibit Dopamine Modulation of Basal<br>Ganglia through the M4 Muscarinic Receptor. Neuron, 2017, 96, 1358-1372.e4.   | 8.1  | 43        |
| 83 | Discovery of 3-aminopicolinamides as metabotropic glutamate receptor subtype 4 (mGlu4) positive<br>allosteric modulator warheads engendering CNS exposure and in vivo efficacy. Bioorganic and<br>Medicinal Chemistry Letters, 2016, 26, 2915-2919.                                 | 2.2  | 3         |
| 84 | Further optimization of the M1 PAM VU0453595: Discovery of novel heterobicyclic core motifs with improved CNS penetration. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 3822-3825.   | 2.2  | 11        |
| 85 | Discovery, Synthesis, and Preclinical Characterization<br>ofN-(3-Chloro-4-fluorophenyl)-1H-pyrazolo[4,3-b]pyridin-3-amine (VU0418506), a Novel Positive<br>Allosteric Modulator of the Metabotropic Glutamate Receptor 4 (mGlu4). ACS Chemical Neuroscience,<br>2016. 7, 1192-1200. | 3.5  | 39        |
| 86 | Re-exploration of the mGlu1 PAM Ro 07-11401 scaffold: Discovery of analogs with improved CNS penetration despite steep SAR. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 2289-2292.  | 2.2  | 7         |
| 87 | Discovery and optimization of a novel series of highly CNS penetrant M 4 PAMs based on a 5,6-dimethyl-4-(piperidin-1-yl)thieno[2,3- d ]pyrimidine core. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 3029-3033.  | 2.2  | 22        |
| 88 | Discovery and SAR of a novel series of potent, CNS penetrant M4 PAMs based on a non-enolizable ketone core: Challenges in disposition. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 4282-4286.   | 2.2  | 11        |
| 89 | Antipsychotic-like Effects of M 4 Positive Allosteric Modulators Are Mediated by CB 2<br>Receptor-Dependent Inhibition of Dopamine Release. Neuron, 2016, 91, 1244-1252.  | 8.1  | 110       |
| 90 | Prefrontal Cortex-Mediated Impairments in a Genetic Model of NMDA Receptor Hypofunction Are<br>Reversed by the Novel M <sub>1</sub> PAM VU6004256. ACS Chemical Neuroscience, 2016, 7, 1706-1716.   | 3.5  | 39        |

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|-----|---|------|-----------|
| 91  | Development and Antiparkinsonian Activity of VU0418506, a Selective Positive Allosteric Modulator of<br>Metabotropic Glutamate Receptor 4 Homomers without Activity at mGlu <sub>2/4</sub> Heteromers.<br>ACS Chemical Neuroscience, 2016, 7, 1201-1211.                    | 3.5  | 50        |
| 92  | Discovery and characterization of a novel series of N -phenylsulfonyl-1 H -pyrrole picolinamides as positive allosteric modulators of the metabotropic glutamate receptor 4 (mGlu 4 ). Bioorganic and Medicinal Chemistry Letters, 2016, 26, 2984-2987.                     | 2.2  | 5         |
| 93  | N-Alkylpyrido[1′,2′:1,5]pyrazolo-[4,3-d]pyrimidin-4-amines: A new series of negative allosteric modulators of mGlu1/5 with CNS exposure in rodents. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1894-1900.  | 2.2  | 9         |
| 94  | Lead optimization of the VU0486321 series of mGlu1 PAMs. Part 3. Engineering plasma stability by discovery and optimization of isoindolinone analogs. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1869-1872.  | 2.2  | 10        |
| 95  | Practical Strategies and Concepts in GPCR Allosteric Modulator Discovery: Recent Advances with<br>Metabotropic Glutamate Receptors. Chemical Reviews, 2016, 116, 6707-6741.   | 47.7 | 151       |
| 96  | Lead optimization of the VU0486321 series of mGlu 1 PAMs. Part 2: SAR of alternative 3-methyl<br>heterocycles and progress towards an in vivo tool. Bioorganic and Medicinal Chemistry Letters, 2016,<br>26, 751-756.   | 2.2  | 15        |
| 97  | The Metabotropic Glutamate Receptor 4 Positive Allosteric Modulator ADX88178 Inhibits Inflammatory<br>Responses in Primary Microglia. Journal of NeuroImmune Pharmacology, 2016, 11, 231-237.   | 4.1  | 32        |
| 98  | mGlu <sub>5</sub> positive allosteric modulation normalizes synaptic plasticity defects and motor phenotypes in a mouse model of Rett syndrome. Human Molecular Genetics, 2016, 25, 1990-2004.  | 2.9  | 48        |
| 99  | Preliminary investigation of 6,7-dihydropyrazolo[1,5- a ]pyrazin-4-one derivatives as a novel series of mGlu 5 receptor positive allosteric modulators with efficacy in preclinical models of schizophrenia. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 429-434. | 2.2  | 7         |
| 100 | State-dependent alterations in sleep/wake architecture elicited by the M4 PAM VU0467154 – Relation to antipsychotic-like drug effects. Neuropharmacology, 2016, 102, 244-253.   | 4.1  | 23        |
| 101 | Partial mGlu5 Negative Allosteric Modulators Attenuate Cocaine-Mediated Behaviors and Lack<br>Psychotomimetic-Like Effects. Neuropsychopharmacology, 2016, 41, 1166-1178.   | 5.4  | 33        |
| 102 | The Role of mGlu Receptors in Hippocampal Plasticity Deficits in Neurological and Psychiatric<br>Disorders: Implications for Allosteric Modulators as Novel Therapeutic Strategies. Current<br>Neuropharmacology, 2016, 14, 455-473.  | 2.9  | 10        |
| 103 | M1 and M3 muscarinic receptors may play a role in the neurotoxicity of anhydroecgonine methyl ester, a cocaine pyrolysis product. Scientific Reports, 2015, 5, 17555.   | 3.3  | 10        |
| 104 | Discovery of VU0409551/JNJ-46778212: An mGlu <sub>5</sub> Positive Allosteric Modulator Clinical<br>Candidate Targeting Schizophrenia. ACS Medicinal Chemistry Letters, 2015, 6, 716-720.   | 2.8  | 41        |
| 105 | VU0477573: Partial Negative Allosteric Modulator of the Subtype 5 Metabotropic Glutamate Receptor with In Vivo Efficacy. Journal of Pharmacology and Experimental Therapeutics, 2015, 356, 123-136.   | 2.5  | 41        |
| 106 | Allosteric activation of M4 muscarinic receptors improve behavioral and physiological alterations in early symptomatic YAC128 mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14078-14083.                                | 7.1  | 41        |
| 107 | Discovery and SAR of novel series of imidazopyrimidinones and dihydroimidazopyrimidinones as positive allosteric modulators of the metabotropic glutamate receptor 5 (mGlu5). Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1310-1317.                              | 2.2  | 9         |
| 108 | Metabotropic glutamate receptor 3 activation is required for long-term depression in medial<br>prefrontal cortex and fear extinction. Proceedings of the National Academy of Sciences of the United<br>States of America, 2015, 112, 1196-1201.                             | 7.1  | 86        |

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