# Robert H Mach

List of Publications by Year
in descending order



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|---|---|---|---|
| 259 papers | 12,605 citations | 28274 55 h-index | 34986 98 g-index |
| 281 all docs | 281 docs citations | 281 times ranked | 12764 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Inverse relation between in vivo amyloid imaging load and cerebrospinal fluid AÎ²<sub>42</sub> in humans. Annals of Neurology, 2006, 59, 512-519. | 5.3 | 1,190 |
| 2 | Social dominance in monkeys: dopamine D2 receptors and cocaine self-administration. Nature Neuroscience, 2002, 5, 169-174. | 14.8 | 645 |
| 3 | PET imaging of dopamine D2 receptors during chronic cocaine self-administration in monkeys. Nature Neuroscience, 2006, 9, 1050-1056. | 14.8 | 412 |
| 4 | Spatial correlation between brain aerobic glycolysis and amyloid-Î² (AÎ²) deposition. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17763-17767. | 7.1 | 338 |
| 5 | Epigenetic Priming of Memory Updating during Reconsolidation to Attenuate Remote Fear Memories. Cell, 2014, 156, 261-276. | 28.9 | 318 |
| 6 | Cerebrospinal fluid tau and ptau <sub>181</sub> increase with cortical amyloid deposition in cognitively normal individuals: Implications for future clinical trials of Alzheimer's disease. EMBO Molecular Medicine, 2009, 1, 371-380. | 6.9 | 315 |
| 7 | Identification of the PGRMC1 protein complex as the putative sigma-2 receptor binding site. Nature Communications, 2011, 2, 380. | 12.8 | 277 |
| 8 | Effect of social status on striatal dopamine D2 receptor binding characteristics in cynomolgus monkeys assessed with positron emission tomography. Synapse, 1998, 29, 80-83. | 1.2 | 185 |
| 9 | Pathologic Accumulation of Î±-Synuclein and AÎ² in Parkinson Disease Patients With Dementia. Archives of Neurology, 2012, 69, 1326. | 4.5 | 173 |
| 10 | Evaluation of 5-ethynyl-2â€²-deoxyuridine staining as a sensitive and reliable method for studying cell proliferation in the adult nervous system. Brain Research, 2010, 1319, 21-32. | 2.2 | 172 |
| 11 | Consensus nomenclature rules for radiopharmaceutical chemistry â€” Setting the record straight. Nuclear Medicine and Biology, 2017, 55, v-xi. | 0.6 | 162 |
| 12 | Fibrillization of ?-synuclein and tau in familial Parkinson's disease caused by the A53T ?-synuclein mutation. Experimental Neurology, 2004, 187, 279-288. | 4.1 | 151 |
| 13 | Alzheimer's Therapeutics Targeting Amyloid Beta 1â€“42 Oligomers II: Sigma-2/PGRMC1 Receptors Mediate Abeta 42 Oligomer Binding and Synaptotoxicity. PLoS ONE, 2014, 9, e111899. | 2.5 | 151 |
| 14 | Altered Neuronal Mitochondrial Coenzyme A Synthesis in Neurodegeneration with Brain Iron Accumulation Caused by Abnormal Processing, Stability, and Catalytic Activity of Mutant Pantothenate Kinase 2. Journal of Neuroscience, 2005, 25, 689-698. | 3.6 | 141 |
| 15 | Lewy Body Pathology in Alzheimer's Disease. Journal of Molecular Neuroscience, 2001, 17, 225-232. | 2.3 | 138 |
| 16 | The Ïƒ<sub>2</sub> Receptor: A Novel Protein for the Imaging and Treatment of Cancer. Journal of Medicinal Chemistry, 2013, 56, 7137-7160. | 6.4 | 131 |
| 17 | Ibogaine possesses a selective affinity for Ïƒ2 receptors. Life Sciences, 1995, 57, PL57-PL62. | 4.3 | 130 |
| 18 | Selective sigma-2 ligands preferentially bind to pancreatic adenocarcinomas: applications in diagnostic imaging and therapy. Molecular Cancer, 2007, 6, 48. | 19.2 | 118 |

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| 19 | Synthesis, radiolabeling, and in vivo evaluation of an 18F-labeled isatin analog for imaging caspase-3 activation in apoptosis. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5041-5046. | 2.2 | 116 |
| 20 | Subcellular Localization of Sigma-2 Receptors in Breast Cancer Cells Using Two-Photon and Confocal Microscopy. Cancer Research, 2007, 67, 6708-6716. | 0.9 | 112 |
| 21 | Bacterial infection imaging with [ <sup>18</sup> F]fluoropropyl-trimethoprim. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8372-8377. | 7.1 | 111 |
| 22 | Fluorine-18-Labeled Benzamide Analogues for Imaging the Ïƒ2 Receptor Status of Solid Tumors with Positron Emission Tomography. Journal of Medicinal Chemistry, 2007, 50, 3194-3204. | 6.4 | 102 |
| 23 | A PET imaging agent for evaluating PARP-1 expression in ovarian cancer. Journal of Clinical Investigation, 2018, 128, 2116-2126. | 8.2 | 100 |
| 24 | Synthesis and in vitro binding of N-phenyl piperazine analogs as potential dopamine D3 receptor ligands. Bioorganic and Medicinal Chemistry, 2005, 13, 77-87. | 3.0 | 99 |
| 25 | Sigma-2 Receptor/TMEM97 and PGRMC-1 Increase the Rate of Internalization of LDL by LDL Receptor through the Formation of a Ternary Complex. Scientific Reports, 2018, 8, 16845. | 3.3 | 97 |
| 26 | Binding of the Radioligand SIL23 to Î±-Synuclein Fibrils in Parkinson Disease Brain Tissue Establishes Feasibility and Screening Approaches for Developing a Parkinson Disease Imaging Agent. PLoS ONE, 2013, 8, e55031. | 2.5 | 97 |
| 27 | N-Benzylisatin Sulfonamide Analogues as Potent Caspase-3 Inhibitors:Â Synthesis, in Vitro Activity, and Molecular Modeling Studies. Journal of Medicinal Chemistry, 2005, 48, 7637-7647. | 6.4 | 92 |
| 28 | Design, Synthesis, and Characterization of 3-(Benzylidene)indolin-2-one Derivatives as Ligands for Î±-Synuclein Fibrils. Journal of Medicinal Chemistry, 2015, 58, 6002-6017. | 6.4 | 92 |
| 29 | Conformationally-flexible benzamide analogues as dopamine D3 and Ïƒ2 receptor ligands. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 195-202. | 2.2 | 90 |
| 30 | PET Imaging of Microglial Activationâ€"Beyond Targeting TSPO. Molecules, 2018, 23, 607. | 3.8 | 85 |
| 31 | ALC1 links chromatin accessibility to PARP inhibitor response in homologous recombination-deficient cells. Nature Cell Biology, 2021, 23, 160-171. | 10.3 | 85 |
| 32 | Progress in Developing D3 Dopamine Receptor Ligands as Potential Therapeutic Agents for Neurological and Neuropsychiatric Disorders. Current Pharmaceutical Design, 2003, 9, 643-671. | 1.9 | 85 |
| 33 | Dopamine D-2 receptor imaging radiopharmaceuticals: synthesis, radiolabeling and in vitro binding of (R)-(+)- and (S)-(-)-3-iodo-2-hydroxy-6-methoxy-N-[(1-ethyl-2-pyrrolidinyl)methyl]benzamide. Journal of Medicinal Chemistry, 1988, 31, 1039-1043. | 6.4 | 83 |
| 34 | A Radiotracer Strategy to Quantify PARP-1 Expression In Vivo Provides a Biomarker That Can Enable Patient Selection for PARP Inhibitor Therapy. Cancer Research, 2016, 76, 4516-4524. | 0.9 | 77 |
| 35 | Assessment of Cellular Proliferation in Tumors by PET Using <sup>18</sup>F-ISO-1. Journal of Nuclear Medicine, 2013, 54, 350-357. | 5.0 | 76 |
| 36 | [18F](2S,4R)4-Fluoroglutamine PET Detects Glutamine Pool Size Changes in Triple-Negative Breast Cancer in Response to Glutaminase Inhibition. Cancer Research, 2017, 77, 1476-1484. | 0.9 | 75 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Development of a PET radiotracer for non-invasive imaging of the reactive oxygen species, superoxide, in vivo. Organic and Biomolecular Chemistry, 2014, 12, 4421-4431. | 2.8 | 74 |
| 38 | Development of a Tc-99m labeled sigma-2 receptor-specific ligand as a potential breast tumor imaging agent. Nuclear Medicine and Biology, 2001, 28, 657-666. | 0.6 | 71 |
| 39 | The novel sigma-2 receptor ligand SW43 stabilizes pancreas cancer progression in combination with gemcitabine. Molecular Cancer, 2010, 9, 298. | 19.2 | 70 |
| 40 | Imaging CAR T Cell Trafficking with eDHFR as a PET Reporter Gene. Molecular Therapy, 2020, 28, 42-51. | 8.2 | 70 |
| 41 | [18F]- and [11C]-Labeled N-benzyl-isatin sulfonamide analogues as PET tracers for Apoptosis: synthesis, radiolabeling mechanism, and in vivo imaging study of apoptosis in Fas-treated mice using [11C]WC-98. Organic and Biomolecular Chemistry, 2009, 7, 1337. | 2.8 | 69 |
| 42 | Using SV119â€€Gold Nanocage Conjugates to Eradicate Cancer Stem Cells Through a Combination of Photothermal and Chemo Therapies. Advanced Healthcare Materials, 2014, 3, 1283-1291. | 7.6 | 69 |
| 43 | Carbon-11 labeled Ïƒ2 receptor ligands for imaging breast cancer. Nuclear Medicine and Biology, 2005, 32, 423-430. | 0.6 | 67 |
| 44 | Isatin Sulfonamide Analogs Containing a Michael Addition Acceptor:â€‰ A New Class of Caspase 3/7 Inhibitors. Journal of Medicinal Chemistry, 2007, 50, 3751-3755. | 6.4 | 67 |
| 45 | Subtype Selectivity of Dopamine Receptor Ligands: Insights from Structure and Ligand-Based Methods. Journal of Chemical Information and Modeling, 2010, 50, 1970-1985. | 5.4 | 64 |
| 46 | Lysosomal Membrane Permeabilization is an Early Event in Sigma-2 Receptor Ligand Mediated Cell Death in Pancreatic Cancer. Journal of Experimental and Clinical Cancer Research, 2012, 31, 41. | 8.6 | 64 |
| 47 | Synthesis, [18F] radiolabeling, and evaluation of poly (ADP-ribose) polymerase-1 (PARP-1) inhibitors for in vivo imaging of PARP-1 using positron emission tomography. Bioorganic and Medicinal Chemistry, 2014, 22, 1700-1707. | 3.0 | 64 |
| 48 | Vesamicol analogues as sigma ligands. Biochemical Pharmacology, 1995, 49, 791-797. | 4.4 | 63 |
| 49 | Rapid Cu-Catalyzed [<sup>211</sup>At]Astatination and [<sup>125</sup>I]Iodination of Boronic Esters at Room Temperature. Organic Letters, 2018, 20, 1752-1755. | 4.6 | 63 |
| 50 | Dopamine D1, D2, D3 Receptors, Vesicular Monoamine Transporter Type-2 (VMAT2) and Dopamine Transporter (DAT) Densities in Aged Human Brain. PLoS ONE, 2012, 7, e49483. | 2.5 | 62 |
| 51 | Dopamine D2/D3 receptors modulate cocaineâ€™s reinforcing and discriminative stimulus effects in rhesus monkeys. Drug and Alcohol Dependence, 1999, 54, 97-110. | 3.2 | 60 |
| 52 | [3H]N-[4-(3,4-dihydro-6,7-dimethoxyisoquinolin-2(1H)-yl)butyl]-2-methoxy-5-methylbenzamide: A novel sigma-2 receptor probe. European Journal of Pharmacology, 2005, 525, 8-17. | 3.5 | 60 |
| 53 | Social Stress, Depression, and Brain Dopamine in Female Cynomolgus Monkeys. Annals of the New York Academy of Sciences, 1997, 807, 574-577. | 3.8 | 57 |
| 54 | PET of Poly (ADP-Ribose) Polymerase Activity in Cancer: Preclinical Assessment and First In-Human Studies. Radiology, 2017, 282, 453-463. | 7.3 | 57 |

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| 55 | Sigma-2 receptor ligands potentiate conventional chemotherapies and improve survival in models of pancreatic adenocarcinoma. Journal of Translational Medicine, 2009, 7, 24. | 4.4 | 55 |
| 56 | Radiosynthesis and in vivo evaluation of [11C]MP-10 as a PET probe for imaging PDE10A in rodent and non-human primate brain. Bioorganic and Medicinal Chemistry, 2011, 19, 1666-1673. | 3.0 | 55 |
| 57 | A patient-derived-xenograft platform to study BRCA-deficient ovarian cancers. JCI Insight, 2017, 2, e89760. | 5.0 | 55 |
| 58 | Fluorine-18 labeled benzamides for studying the dopamine D2 receptor with positron emission tomography. Journal of Medicinal Chemistry, 1993, 36, 3707-3720. | 6.4 | 51 |
| 59 | Evaluation of D2 and D3 dopamine receptor selective compounds on l-dopa-dependent abnormal involuntary movements in rats. Neuropharmacology, 2009, 56, 956-969. | 4.1 | 51 |
| 60 | Synthesis and in vitro evaluation of Î±-synuclein ligands. Bioorganic and Medicinal Chemistry, 2012, 20, 4625-4634. | 3.0 | 51 |
| 61 | Radiosynthesis and in Vivo Evaluation of Two PET Radioligands for Imaging Î±-Synuclein. Applied Sciences (Switzerland), 2014, 4, 66-78. | 2.5 | 51 |
| 62 | Development of a Positron Emission Tomography Radiotracer for Imaging Elevated Levels of Superoxide in Neuroinflammation. ACS Chemical Neuroscience, 2018, 9, 578-586. | 3.5 | 51 |
| 63 | Imaging Caspase-3 Activation as a Marker of Apoptosis-Targeted Treatment Response in Cancer. Molecular Imaging and Biology, 2015, 17, 384-393. | 2.6 | 49 |
| 64 | The Sigma-2 Receptor/TMEM97, PGRMC1, and LDL Receptor Complex Are Responsible for the Cellular Uptake of Aî²42 and Its Protein Aggregates. Molecular Neurobiology, 2020, 57, 3803-3813. | 4.0 | 49 |
| 65 | Characterization of125I-IABN, a novel azabicyclononane benzamide selective for D2-like dopamine receptors. Synapse, 2000, 38, 438-449. | 1.2 | 48 |
| 66 | Design and Synthesis of 2-Amino-4-methylpyridine Analogues as Inhibitors for Inducible Nitric Oxide Synthase and in Vivo Evaluation of [<sup>18</sup>F]6-(2-Fluoropropyl)-4-methyl-pyridin-2-amine as a Potential PET Tracer for Inducible Nitric Oxide Synthase. Journal of Medicinal Chemistry, 2009, 52, 2443-2453. | 6.4 | 48 |
| 67 | Synthesis and in Vitro and in Vivo Evaluation of <sup>18</sup>F-Labeled Positron Emission Tomography (PET) Ligands for Imaging the Vesicular Acetylcholine Transporter. Journal of Medicinal Chemistry, 2009, 52, 1358-1369. | 6.4 | 48 |
| 68 | Carbon-11 labeled papaverine as a PET tracer for imaging PDE10A: radiosynthesis, in vitro and in vivo evaluation. Nuclear Medicine and Biology, 2010, 37, 509-516. | 0.6 | 48 |
| 69 | Alpha Synuclein Fibrils Contain Multiple Binding Sites for Small Molecules. ACS Chemical Neuroscience, 2018, 9, 2521-2527. | 3.5 | 48 |
| 70 | The use of [18F]4-fluorobenzyl iodide (FBI) in PET radiotracer synthesis: Model alkylation studies and its application in the design of dopamine D1 and D2 receptor-based imaging agents. Nuclear Medicine and Biology, 1993, 20, 777-794. | 0.6 | 47 |
| 71 | Resorufin analogs preferentially bind cerebrovascular amyloid: potential use as imaging ligands for cerebral amyloid angiopathy. Molecular Neurodegeneration, 2011, 6, 86. | 10.8 | 47 |
| 72 | Use of Positron Emission Tomography to Study the Dynamics of Psychostimulant-Induced Dopamine Release. Pharmacology Biochemistry and Behavior, 1997, 57, 477-486. | 2.9 | 46 |

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|---|---|---|---|
| 73 | Synthesis and in Vitro Evaluation of Sulfonamide Isatin Michael Acceptors as Small Molecule Inhibitors of Caspase-6. Journal of Medicinal Chemistry, 2009, 52, 2188-2191. | 6.4 | 46 |
| 74 | Imaging of cholinergic terminals using the radiotracer [18F](+)-4-fluorobenzyltrozamicol: In vitro binding studies and positron emission tomography studies in nonhuman primates. , 1997, 25, 368-380. | | 45 |
| 75 | Synthesis and in vivo evaluation of [11C]PJ34, a potential radiotracer for imaging the role of PARP-1 in necrosis. Nuclear Medicine and Biology, 2005, 32, 437-443. | 0.6 | 45 |
| 76 | Characterization of a novel iodinated sigma-2 receptor ligand as a cell proliferation marker. Nuclear Medicine and Biology, 2006, 33, 203-209. | 0.6 | 45 |
| 77 | Synthesis of N-substituted 9-azabicyclo[3.3.1]nonan-3Î±-yl carbamate analogs as Ïƒ2 receptor ligands. Bioorganic and Medicinal Chemistry, 2006, 14, 6988-6997. | 3.0 | 45 |
| 78 | SV119-gold nanocage conjugates: a new platform for targeting cancer cellsvia sigma-2 receptors. Nanoscale, 2012, 4, 421-424. | 5.6 | 45 |
| 79 | Decreased striatal dopamine receptor binding in primary focal dystonia: A D2 or D3 defect?. Movement Disorders, 2011, 26, 100-106. | 3.9 | 44 |
| 80 | Synthesis and characterization of selective dopamine D2 receptor ligands using aripiprazole as the lead compound. Bioorganic and Medicinal Chemistry, 2011, 19, 3502-3511. | 3.0 | 43 |
| 81 | TMEM97 and PGRMC1 do not mediate sigma-2 ligand-induced cell death. Cell Death Discovery, 2019, 5, 58. | 4.7 | 43 |
| 82 | Synthesis and Pharmacological Evaluation of Fluorine-Containing D<sub>3</sub> Dopamine Receptor Ligands. Journal of Medicinal Chemistry, 2011, 54, 1555-1564. | 6.4 | 42 |
| 83 | Use of Multifunctional Sigma-2 Receptor Ligand Conjugates to Trigger Cancer-Selective Cell Death Signaling. Cancer Research, 2012, 72, 201-209. | 0.9 | 41 |
| 84 | Imaging Pulmonary Inducible Nitric Oxide Synthase Expression with PET. Journal of Nuclear Medicine, 2015, 56, 76-81. | 5.0 | 41 |
| 85 | Quantitative Receptor-Based Imaging of Tumor Proliferation with the Sigma-2 Ligand [18F]ISO-1. PLoS ONE, 2013, 8, e74188. | 2.5 | 41 |
| 86 | New N-substituted 9-azabicyclo[3.3.1]nonan-3Î±-yl phenylcarbamate analogs as Ïƒ2 receptor ligands: Synthesis, in vitro characterization, and evaluation as PET imaging and chemosensitization agents. Bioorganic and Medicinal Chemistry, 2009, 17, 1222-1231. | 3.0 | 40 |
| 87 | Comparison of radiolabeled isatin analogs for imaging apoptosis with positron emission tomography. Nuclear Medicine and Biology, 2009, 36, 651-658. | 0.6 | 40 |
| 88 | Docking and 3D-QSAR Studies on Isatin Sulfonamide Analogues as Caspase-3 Inhibitors. Journal of Chemical Information and Modeling, 2009, 49, 1963-1973. | 5.4 | 40 |
| 89 | Endogenous dopamine (DA) competes with the binding of a radiolabeled D<sub>3</sub> receptor partial agonist in vivo: A positron emission tomography study. Synapse, 2011, 65, 724-732. | 1.2 | 39 |
| 90 | Antagonism of Inhibitor of Apoptosis Proteins Increases Bone Metastasis via Unexpected Osteoclast Activation. Cancer Discovery, 2013, 3, 212-223. | 9.4 | 39 |

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| 91 | Targeted pancreatic cancer therapy with the small molecule drug conjugate SW IVâ€134. Molecular Oncology, 2014, 8, 956-967. | 4.6 | 38 |
| 92 | Current status of the development of PET radiotracers for imaging alpha synuclein aggregates in Lewy bodies and Lewy neurites. Clinical and Translational Imaging, 2017, 5, 3-14. | 2.1 | 38 |
| 93 | IN VIVO IMAGING IN A MURINE MODEL OF GLIOBLASTOMA. Neurosurgery, 2007, 60, 360-371. | 1.1 | 37 |
| 94 | Characterization and Evaluation of Two Novel Fluorescent Sigma-2 Receptor Ligands as Proliferation Probes. Molecular Imaging, 2011, 10, 7290.2011.00009. | 1.4 | 37 |
| 95 | The effects of sigma (Ïƒ1) receptorâ€selective ligands on muscarinic receptor antagonistâ€induced cognitive deficits in mice. British Journal of Pharmacology, 2015, 172, 2519-2531. | 5.4 | 37 |
| 96 | Synthesis and in vivo evaluation of 2 high-affinity 76Br-labeled sigma2-receptor ligands. Journal of Nuclear Medicine, 2006, 47, 1041-8. | 5.0 | 37 |
| 97 | Synthesis and Quantitative Structureâ^'Activity Relationships of N-(1-Benzylpiperidin-4-yl)phenylacetamides and Related Analogues as Potent and Selective Ïƒ1 Receptor Ligands. Journal of Medicinal Chemistry, 1998, 41, 2361-2370. | 6.4 | 36 |
| 98 | The analgesic tropane analogue (Â±)-SM 21 has a high affinity for Ïƒ2 receptors. Life Sciences, 1999, 64, PL131-PL137. | 4.3 | 36 |
| 99 | Synthesis and characterization of selective dopamine D2 receptor antagonists. Bioorganic and Medicinal Chemistry, 2006, 14, 815-825. | 3.0 | 36 |
| 100 | Sleep deprivation differentially affects dopamine receptor subtypes in mouse striatum. NeuroReport, 2011, 22, 489-493. | 1.2 | 36 |
| 101 | Targeting PARP-1 with Alpha-Particles Is Potently Cytotoxic to Human Neuroblastoma in Preclinical Models. Molecular Cancer Therapeutics, 2019, 18, 1195-1204. | 4.1 | 36 |
| 102 | PET imaging for attention deficit preclinical drug testing in neurofibromatosis-1 mice. Experimental Neurology, 2011, 232, 333-338. | 4.1 | 35 |
| 103 | Synthesis and evaluation of isatin analogs as caspase-3 inhibitors: Introduction of a hydrophilic group increases potency in a whole cell assay. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2192-2197. | 2.2 | 35 |
| 104 | Functional assays to define agonists and antagonists of the sigma-2 receptor. Analytical Biochemistry, 2014, 448, 68-74. | 2.4 | 35 |
| 105 | Pd-Catalyzed Synthesis of Piperazine Scaffolds Under Aerobic and Solvent-Free Conditions. Organic Letters, 2016, 18, 5272-5275. | 4.6 | 35 |
| 106 | [<sup>3</sup>H]4â€(dimethylamino)â€Nâ€(4â€(4â€(2â€methoxyphenyl)piperazinâ€1â€yl) butyl)benzamide: A selective radioligand for dopamine D<sub>3</sub> receptors. II. Quantitative analysis of dopamine D<sub>3</sub> and D<sub>2</sub> receptor density ratio in the caudateâ€putamen. Synapse, 2010, 64, 449-459. | 1.2 | 34 |
| 107 | Feasibility and Dosimetry Studies for <sup>18</sup>F-NOS as a Potential PET Radiopharmaceutical for Inducible Nitric Oxide Synthase in Humans. Journal of Nuclear Medicine, 2012, 53, 994-1001. | 5.0 | 33 |
| 108 | Synthesis and Structureâ€“Activity Relationship Studies of Conformationally Flexible Tetrahydroisoquinolinyl Triazole Carboxamide and Triazole Substituted Benzamide Analogues as Ïƒ<sub>2</sub> Receptor Ligands. Journal of Medicinal Chemistry, 2014, 57, 4239-4251. | 6.4 | 33 |

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| 109 | Examination of Diazaspiro Cores as Piperazine Bioisosteres in the Olaparib Framework Shows Reduced DNA Damage and Cytotoxicity. Journal of Medicinal Chemistry, 2018, 61, 5367-5379. | 6.4 | 32 |
| 110 | Development of brain PET imaging agents: Strategies for imaging neuroinflammation in Alzheimer's disease. Progress in Molecular Biology and Translational Science, 2019, 165, 371-399. | 1.7 | 32 |
| 111 | Cholinergic activity of aged rhesus monkeys revealed by positron emission tomography. Synapse, 2001, 39, 95-100. | 1.2 | 30 |
| 112 | Neuroprotective effects of high affinity sigma 1 receptor selective compounds. Brain Research, 2012, 1441, 17-26. | 2.2 | 30 |
| 113 | Automation of the Radiosynthesis of Six Different 18F-labeled radiotracers on the AllinOne. EJNMMI Radiopharmacy and Chemistry, 2017, 1, 15. | 3.9 | 30 |
| 114 | PARP-1â€“Targeted Auger Emitters Display High-LET Cytotoxic Properties In Vitro but Show Limited Therapeutic Utility in Solid Tumor Models of Human Neuroblastoma. Journal of Nuclear Medicine, 2020, 61, 850-856. | 5.0 | 30 |
| 115 | The Biological Function of Sigma-2 Receptor/TMEM97 and Its Utility in PET Imaging Studies in Cancer. Cancers, 2020, 12, 1877. | 3.7 | 30 |
| 116 | Identification of a nanomolar affinity Î±-synuclein fibril imaging probe by ultra-high throughput in silico screening. Chemical Science, 2020, 11, 12746-12754. | 7.4 | 30 |
| 117 | [(18)F]FluorThanatrace uptake as a marker of PARP1 expression and activity in breast cancer. American Journal of Nuclear Medicine and Molecular Imaging, 2016, 6, 94-101. | 1.0 | 30 |
| 118 | Effect of N-alkylation on the affinities of analogs of spiperone for dopamine D2 and serotonin 5-HT2 receptors. Journal of Medicinal Chemistry, 1992, 35, 423-430. | 6.4 | 28 |
| 119 | Comparison of two fluorine-18 labeled benzamide derivatives that bind reversibly to dopamine D2 receptors: In vitro binding studies and positron emission tomography. , 1996, 24, 322-333. | | 28 |
| 120 | N-Hydroxyalkyl Derivatives of 3Î²-Phenyltropane and 1-Methylspiro[1H-indoline-3,4â€˜-piperidine]:Â Vesamicol Analogues with Affinity for Monoamine Transporters. Journal of Medicinal Chemistry, 1997, 40, 3905-3914. | 6.4 | 28 |
| 121 | PET Imaging of Dopamine D2 Receptors with [18F]Fluoroclebopride in Monkeys Effects of Isoflurane- and Ketamine-Induced Anesthesia. Neuropsychopharmacology, 1999, 21, 589-596. | 5.4 | 28 |
| 122 | Radiosynthesis and biological evaluation of a promising Ïƒ2-receptor ligand radiolabeled with fluorine-18 or iodine-125 as a PET/SPECT probe for imaging breast cancer. Applied Radiation and Isotopes, 2010, 68, 2268-2273. | 1.5 | 28 |
| 123 | Therapeutic targeting of pancreatic cancer utilizing sigma-2 ligands. Surgery, 2012, 152, S152-S156. | 1.9 | 28 |
| 124 | <sup>18</sup>F-AFETP, <sup>18</sup>F-FET, and <sup>18</sup>F-FDG Imaging of Mouse DBT Gliomas. Journal of Nuclear Medicine, 2013, 54, 1120-1126. | 5.0 | 28 |
| 125 | Chalcones and Five-Membered Heterocyclic Isosteres Bind to Alpha Synuclein Fibrils in Vitro. ACS Omega, 2018, 3, 4486-4493. | 3.5 | 28 |
| 126 | No Differential Regulation of Dopamine Transporter (DAT) and Vesicular Monoamine Transporter 2 (VMAT2) Binding in a Primate Model of Parkinson Disease. PLoS ONE, 2012, 7, e31439. | 2.5 | 28 |

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|---|---|---|---|
| 127 | Synthesis of 2-(5-Bromo-2,3-dimethoxyphenyl)-5-(aminomethyl)-1H-pyrrole analogues and their binding affinities for dopamine D2, D3, and D4 receptors. Bioorganic and Medicinal Chemistry, 2003, 11, 225-233. | 3.0 | 27 |
| 128 | [<sup>3</sup>H]4â€(Dimethylamino)â€Nâ€[4â€(4â€(2â€methoxyphenyl)piperazinâ€1â€yl)butyl]benzamide, a selective radioligand for dopamine D<sub>3</sub> receptors. I. In vitro characterization. Synapse, 2009, 63, 717-728. | 1.2 | 27 |
| 129 | Click Synthesis and Biologic Evaluation of (R)- and (S)-2-Amino-3-[1-(2-[<sup>18</sup>F]Fluoroethyl)-1H-[1,2,3]Triazol-4-yl]Propanoic Acid for Brain Tumor Imaging with Positron Emission Tomography. Molecular Imaging, 2010, 9, 7290.2010.00025. | 1.4 | 27 |
| 130 | Quantitative PET Reporter Gene Imaging with [11C]Trimethoprim. Molecular Therapy, 2017, 25, 120-126. | 8.2 | 27 |
| 131 | Highly Selective Dopamine D<sub>3</sub> Receptor Antagonists with Arylated Diazaspiro Alkane Cores. Journal of Medicinal Chemistry, 2017, 60, 9905-9910. | 6.4 | 27 |
| 132 | Cell-Proliferation Imaging for Monitoring Response to CDK4/6 Inhibition Combined with Endocrine-Therapy in Breast Cancer: Comparison of [18F]FLT and [18F]ISO-1 PET/CT. Clinical Cancer Research, 2019, 25, 3063-3073. | 7.0 | 27 |
| 133 | New Targets for the Development of PET Tracers for Imaging Neurodegeneration in Alzheimer Disease. Journal of Nuclear Medicine, 2014, 55, 1221-1224. | 5.0 | 26 |
| 134 | Positron Emission Tomography Imaging of Polyâ€“(Adenosine Diphosphateâ€“Ribose) Polymerase 1 Expression in Breast Cancer. JAMA Oncology, 2020, 6, 921. | 7.1 | 26 |
| 135 | Synthesis andin VitroBiological Evaluation of Carbonyl Group-Containing Inhibitors of Vesicular Acetylcholine Transporter. Journal of Medicinal Chemistry, 2010, 53, 2825-2835. | 6.4 | 25 |
| 136 | Comparison of the Binding and Functional Properties of Two Structurally Different D2 Dopamine Receptor Subtype Selective Compounds. ACS Chemical Neuroscience, 2012, 3, 1050-1062. | 3.5 | 25 |
| 137 | Regulation of dopamine presynaptic markers and receptors in the striatum of DJ-1 and Pink1 knockout rats. Neuroscience Letters, 2013, 557, 123-128. | 2.1 | 25 |
| 138 | Iodinated benzimidazole PARP radiotracer for evaluating PARP1/2 expression in vitro and in vivo. Nuclear Medicine and Biology, 2016, 43, 752-758. | 0.6 | 25 |
| 139 | Synthesis and Structureâ^'Activity Relationships of Naphthamides as Dopamine D3Receptor Ligands. Journal of Medicinal Chemistry, 2001, 44, 1815-1826. | 6.4 | 24 |
| 140 | Reduction of Cocaine Self-Administration and D3 Receptor-Mediated Behavior by Two Novel Dopamine D3 Receptor-Selective Partial Agonists, OS-3-106 and WW-III-55. Journal of Pharmacology and Experimental Therapeutics, 2013, 347, 410-423. | 2.5 | 24 |
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