

Barbara Costa

List of Publications by Year in descending order

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docs citations

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3925
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#	ARTICLE	IF	CITATIONS
1	DPA-714, a New Translocator Protein-Specific Ligand: Synthesis, Radiofluorination, and Pharmacologic Characterization. <i>Journal of Nuclear Medicine</i> , 2008, 49, 814-822.	2.8	237
2	Oxytocin receptor polymorphisms and adult attachment style in patients with depression. <i>Psychoneuroendocrinology</i> , 2009, 34, 1506-1514.	1.3	221
3	2-Arylpyrazolo[1,5-a]pyrimidin-3-yl acetamides. New potent and selective peripheral benzodiazepine receptor ligands. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 2661-2671.	1.4	112
4	Toward Highly Potent Cancer Agents by Modulating the C-2 Group of the Arylthioindole Class of Tubulin Polymerization Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 123-149.	2.9	107
5	Peripheral benzodiazepine receptor ligands: mitochondrial transmembrane potential depolarization and apoptosis induction in rat C6 glioma cells. <i>Biochemical Pharmacology</i> , 2004, 68, 125-134.	2.0	87
6	Anxiolytic-like Effects of <i>N,N</i> -Dialkyl-2-phenylindol-3-ylglyoxylamides by Modulation of Translocator Protein Promoting Neurosteroid Biosynthesis. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 5798-5806.	2.9	80
7	Combined inhibition of AKT/mTOR and MDM2 enhances Glioblastoma Multiforme cell apoptosis and differentiation of cancer stem cells. <i>Scientific Reports</i> , 2015, 5, 9956.	1.6	77
8	<i>N,N</i> -Dialkyl-2-phenylindol-3-ylglyoxylamides. A New Class of Potent and Selective Ligands at the Peripheral Benzodiazepine Receptor. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 1852-1855.	2.9	75
9	The Spontaneous Ala147Thr Amino Acid Substitution within the Translocator Protein Influences Pregnenolone Production in Lymphomonocytes of Healthy Individuals. <i>Endocrinology</i> , 2009, 150, 5438-5445.	1.4	70
10	A Novel Selective GABA _A ±1 Receptor Agonist Displaying Sedative and Anxiolytic-like Properties in Rodents. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 6756-6760.	2.9	68
11	Human Glioblastoma Multiforme: p53 Reactivation by a Novel MDM2 Inhibitor. <i>PLoS ONE</i> , 2013, 8, e72281.	1.1	67
12	Insight into 2-phenylpyrazolo[1,5-a]pyrimidin-3-yl acetamides as peripheral benzodiazepine receptor ligands: Synthesis, biological evaluation and 3D-QSAR investigation. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 4821-4834.	1.4	63
13	Apoptosis Therapy in Cancer: The First Single-molecule Co-activating p53 and the Translocator Protein in Glioblastoma. <i>Scientific Reports</i> , 2014, 4, 4749.	1.6	62
14	The Citrus Flavanone Naringenin Protects Myocardial Cells against Age-Associated Damage. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-12.	1.9	58
15	Ala147Thr substitution in translocator protein is associated with adult separation anxiety in patients with depression. <i>Psychiatric Genetics</i> , 2009, 19, 110-111.	0.6	56
16	Microglial Pro-Inflammatory and Anti-Inflammatory Phenotypes Are Modulated by Translocator Protein Activation. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4467.	1.8	54
17	TSPO ligand residence time: a new parameter to predict compound neurosteroidogenic efficacy. <i>Scientific Reports</i> , 2016, 6, 18164.	1.6	53
18	Inhibition of metalloproteinases derived from tumours: new insights in the treatment of human glioblastoma. <i>Neuroscience</i> , 2010, 168, 514-522.	1.1	49

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19	Preparation and Pharmacological Characterization of trans-2-Amino-5(6)-fluoro-6(5)-hydroxy-1-phenyl-2,3-dihydro-1H-indenes as D2-like Dopamine Receptor Agonists. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 2646-2654.	2.9	43
20	Structure-Activity Relationship Refinement and Further Assessment of 4-Phenylquinazoline-2-carboxamide Translocator Protein Ligands as Antiproliferative Agents in Human Glioblastoma Tumors. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 2413-2428.	2.9	41
21	Anxiolytic properties of a 2-phenylindolglyoxylamide TSPO ligand: Stimulation of in vitro neurosteroid production affecting GABA _A receptor activity. <i>Psychoneuroendocrinology</i> , 2011, 36, 463-472.	1.3	40
22	Translocator Protein (TSPO) and Neurosteroids: Implications in Psychiatric Disorders. <i>Current Molecular Medicine</i> , 2012, 12, 426-442.	0.6	39
23	Benzodiazepine Receptor Ligands. 4. Synthesis and Pharmacological Evaluation of 3-Heteroaryl-8-chloropyrazolo[5,1-c][1,2,4]benzotriazine 5-Oxides. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 2218-2226.	2.9	37
24	Novel N-(Arylalkyl)indol-3-ylglyoxylylamides Targeted as Ligands of the Benzodiazepine Receptor: Synthesis, Biological Evaluation, and Molecular Modeling Analysis of the Structure-Activity Relationships. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 2286-2297.	2.9	36
25	Synthesis and Benzodiazepine Receptor Affinity of Pyrazolo[1,5-a]pyrimidine Derivatives. 3. New 6-(3-Thienyl) Series as ± 1 Selective Ligands. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 310-313.	2.9	36
26	Synthesis and biological evaluation in U87MG glioma cells of (ethynylthiophene)sulfonamido-based hydroxamates as matrix metalloproteinase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 2617-2629.	2.6	36
27	Synthesis and Biological Evaluation of 4-Phenylquinazoline-2-carboxamides Designed as a Novel Class of Potent Ligands of the Translocator Protein. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 4506-4510.	2.9	36
28	TSPO-ligands prevent oxidative damage and inflammatory response in C6 glioma cells by neurosteroid synthesis. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 88, 124-131.	1.9	36
29	Up-regulation of A2A adenosine receptors by proinflammatory cytokines in rat PC12 cells. <i>Biochemical Pharmacology</i> , 2002, 64, 625-631.	2.0	35
30	Translocator Protein as a Promising Target for Novel Anxiolytics. <i>Current Topics in Medicinal Chemistry</i> , 2012, 12, 270-285.	1.0	35
31	Synthesis, Biological Evaluation, and Molecular Modeling of Ribose-Modified Adenosine Analogues as Adenosine Receptor Agonists. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 1550-1562.	2.9	34
32	Benzodiazepine receptor ligands. 8: Synthesis and pharmacological evaluation of new pyrazolo[5,1-c][1,2,4]benzotriazine 5-oxide 3- and 8-disubstituted: High affinity ligands endowed with inverse-agonist pharmacological efficacy. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 758-775.	1.4	33
33	PK 11195 differentially affects cell survival in human wild-type and 18 kDa translocator protein-silenced ADF astrocytoma cells. <i>Journal of Cellular Biochemistry</i> , 2008, 105, 712-723.	1.2	33
34	TSPO over-expression increases motility, transmigration and proliferation properties of C6 rat glioma cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2008, 1782, 118-125.	1.8	33
35	The Anxiolytic Etifoxine Binds to TSPO Ro5-4864 Binding Site with Long Residence Time Showing a High Neurosteroidogenic Activity. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1448-1454.	1.7	33
36	Targeting the 18-kDa translocator protein: recent perspectives for neuroprotection. <i>Biochemical Society Transactions</i> , 2015, 43, 559-565.	1.6	32

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37	TSPO PIGA Ligands Promote Neurosteroidogenesis and Human Astrocyte Well-Being. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1028.	1.8	32
38	An update into the medicinal chemistry of translocator protein (TSPO) ligands. <i>European Journal of Medicinal Chemistry</i> , 2021, 209, 112924.	2.6	31
39	Translocator protein and steroidogenesis. <i>Biochemical Journal</i> , 2018, 475, 901-904.	1.7	30
40	Synthesis and BZR affinity of pyrazolo[1,5- a]pyrimidine derivatives. part 1: study of the structural features for BZR recognition. <i>Bioorganic and Medicinal Chemistry</i> , 1999, 7, 2705-2711.	1.4	28
41	Ribose-Modified Nucleosides as Ligands for Adenosine Receptors: Synthesis, Conformational Analysis, and Biological Evaluation of 1 ^β -C-Methyl Adenosine Analogues. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 1196-1202.	2.9	28
42	Reductions in Platelet 18-kDa Translocator Protein Density Are Associated with Adult Separation Anxiety in Patients with Bipolar Disorder. <i>Neuropsychobiology</i> , 2010, 62, 98-103.	0.9	28
43	Peripheral Benzodiazepine Receptor: Characterization in Human T-Lymphoma Jurkat Cells. <i>Molecular Pharmacology</i> , 2006, 69, 37-44.	1.0	27
44	Identification of Anxiolytic/Nonsedative Agents among Indol-3-ylglyoxylamides Acting as Functionally Selective Agonists at the β -Aminobutyric Acid-A ($GABA_A$) α 2 Benzodiazepine Receptor. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 3723-3734.	2.9	27
45	5 ^β -Carbamoyl derivatives of 2 ^β -C-methyl-purine nucleosides as selective A1 adenosine receptor agonists: Affinity, efficacy, and selectivity for A1 receptor from different species. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 336-353.	1.4	24
46	Benzodiazepine Receptor Ligands. 7. Synthesis and Pharmacological Evaluation of New 3-Esters of the 8-Chloropyrazolo[5,1-c][1,2,4]benzotriazine 5-oxide. 3-(2-Thienylmethoxycarbonyl) Derivative: An Anxiolytic Agent in Rodents. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 5710-5720.	2.9	22
47	AM251 induces apoptosis and G2/M cell cycle arrest in A375 human melanoma cells. <i>Anti-Cancer Drugs</i> , 2015, 26, 754-762.	0.7	22
48	TSPO ligand residence time influences human glioblastoma multiforme cell death/life balance. Apoptosis: an International Journal on Programmed Cell Death, 2015, 20, 383-398.	2.2	22
49	Oxytocin receptor and G-protein polymorphisms in patients with depression and separation anxiety. <i>Journal of Affective Disorders</i> , 2017, 218, 365-373.	2.0	22
50	Bax Activation Blocks Self-Renewal and Induces Apoptosis of Human Glioblastoma Stem Cells. <i>ACS Chemical Neuroscience</i> , 2018, 9, 85-99.	1.7	22
51	Simultaneous Targeting of RGD-Integrins and Dual Murine Double Minute Proteins in Glioblastoma Multiforme. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 4791-4809.	2.9	22
52	Unbinding of Translocator Protein 18 kDa (TSPO) Ligands: From in Vitro Residence Time to in Vivo Efficacy via in Silico Simulations. <i>ACS Chemical Neuroscience</i> , 2019, 10, 3805-3814.	1.7	22
53	2,9-Disubstituted-N6-(arylcarbamoyl)-8-azaadenines as new selective A3 adenosine receptor antagonists: Synthesis, biochemical and molecular modelling studies. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 4679-4693.	1.4	21
54	PIGA (N,N-Di-n-butyl-5-chloro-2-(4-chlorophenyl)indol-3-ylglyoxylamide), a New Mitochondrial Benzodiazepine-Receptor Ligand, Induces Apoptosis in C6 glioma Cells. <i>ChemBioChem</i> , 2005, 6, 1082-1088.	1.3	21

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55	Mutation analysis of oxytocin gene in individuals with adult separation anxiety. <i>Psychiatry Research</i> , 2009, 168, 87-93.	1.7	21
56	Epigenetic Modifications of the <i>SNCA</i> -Synuclein Gene and Relative Protein Content Are Affected by Ageing and Physical Exercise in Blood from Healthy Subjects. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-16.	1.9	16
57	Tertiary amides with a five-membered heteroaromatic ring as new probes for the translocator protein. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 4506-4520.	2.6	15
58	Negative effects of a high tumour necrosis factor- α concentration on human gingival mesenchymal stem cell trophism: the use of natural compounds as modulatory agents. <i>Stem Cell Research and Therapy</i> , 2018, 9, 135.	2.4	15
59	De novo Neurosteroidogenesis in Human Microglia: Involvement of the 18 kDa Translocator Protein. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3115.	1.8	15
60	Synthesis and Screening in Mice of Fluorine-Containing PET Radioligands for TSPO: Discovery of a Promising ^{18}F -Labeled Ligand. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 16731-16745.	2.9	15
61	Separation Anxiety and Measures of Suicide Risk Among Patients With Mood and Anxiety Disorders. <i>Journal of Clinical Psychiatry</i> , 2021, 82, .	1.1	14
62	Analysis of the Antitumor Activity of Clotrimazole on A375 Human Melanoma Cells. <i>Anticancer Research</i> , 2015, 35, 3781-6.	0.5	14
63	c-nucleoside analogues of furanfurin as ligands to $\alpha 1$ adenosine receptors. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 2367-2373.	1.4	13
64	A _{2A} adenosine receptor ligands and proinflammatory cytokines induce PC 12 cell death through apoptosis. <i>Biochemical Pharmacology</i> , 2003, 66, 1953-1962.	2.0	13
65	ETA receptor-mediated Ca ²⁺ mobilisation in H9c2 cardiac cells. <i>Biochemical Pharmacology</i> , 2003, 65, 783-793.	2.0	13
66	Long Residence Time at the Neurosteroidogenic 18 kDa Translocator Protein Characterizes the Anxiolytic Ligand XBD173. <i>ACS Chemical Neuroscience</i> , 2016, 7, 1041-1046.	1.7	13
67	Bifunctional Inhibitors as a New Tool To Reduce Cancer Cell Invasion by Impairing MMP-9 Homodimerization. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 293-298.	1.3	13
68	Exploiting the 4-Phenylquinazoline Scaffold for the Development of High Affinity Fluorescent Probes for the Translocator Protein (TSPO). <i>Journal of Medicinal Chemistry</i> , 2017, 60, 7897-7909.	2.9	13
69	Benzodiazepine receptor ligands. <i>Il Farmaco</i> , 1999, 54, 375-389.	0.9	12
70	Bioisosterism, enantioselectivity, and molecular modeling of new effective N6- and/or N(9)-substituted 2-phenyl adenines and 8-aza analogs: Different binding modes to A1 adenosine receptors. <i>Drug Development Research</i> , 2001, 54, 52-65.	1.4	12
71	erythro- and threo-2-Hydroxynonyl substituted 2-phenyladenines and 2-phenyl-8-azaadenines: ligands for A1 adenosine receptors and adenosine deaminase. <i>Il Farmaco</i> , 2002, 57, 221-233.	0.9	12
72	Novel imidazoline compounds as partial or full agonists of D2-like dopamine receptors inspired by I2-imidazoline binding sites ligand 2-BFI. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 7085-7091.	1.4	12

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73	Oxytocin receptor gene variation, behavioural inhibition, and adult separation anxiety: Role in complicated grief. <i>World Journal of Biological Psychiatry</i> , 2018, 19, 471-479.	1.3	12
74	18-kDa translocator protein association complexes in the brain: From structure to function. <i>Biochemical Pharmacology</i> , 2020, 177, 114015.	2.0	12
75	Benzodiazepine receptor ligands – Part II. Synthesis and biological evaluation of pyrazolo[5,1-c][1,2,4]benzotriazine 4-oxide. <i>European Journal of Medicinal Chemistry</i> , 1998, 33, 237-244.	2.6	10
76	New N6- or N(9)-hydroxyalkyl substituted 8-azaadenines or adenines as effective A1 adenosine receptor ligands. <i>European Journal of Medicinal Chemistry</i> , 2003, 38, 801-810.	2.6	9
77	High Affinity Central Benzodiazepine Receptor Ligands: Synthesis and Biological Evaluation of a Series of Phenyltriazolobenzotriazindione Derivatives. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 2936-2943.	2.9	9
78	Residence Time, a New parameter to Predict Neurosteroidogenic Efficacy of Translocator Protein (TSPO) Ligands: the Case Study of <i>N</i> -alkyl-2-aryllindol-3-ylglyoxylamides. <i>ChemMedChem</i> , 2017, 12, 1275-1278.		9
79	Essential Principles and Recent Progress in the Development of TSPO PET Ligands for Neuroinflammation Imaging. <i>Current Medicinal Chemistry</i> , 2022, 29, 4862-4890.	1.2	9
80	Synthesis and preliminary pharmacological evaluation of trans-2-amino-5(6)-chloro-6(5)-hydroxy-1-phenyl-2,3-dihydro-1H-indenes as dopamine receptor ligands. <i>Farmaco</i> , 2002, 57, 303-313.	0.9	5
81	A2a Adenosine receptors: guanine nucleotide derivative regulation in porcine striatal membranes and digitonin soluble fraction. <i>Neurochemistry International</i> , 1998, 33, 121-129.	1.9	4
82	Chemical modification of the dihydropyridines binding sites by lysine reagent, pyridoxal 5-phosphate. <i>Neurochemistry International</i> , 1998, 32, 361-364.	1.9	4
83	Synthesis and preliminary pharmacological evaluation of 5-Hydroxy- and 5,6-dihydroxy-1,2,3,7,12,12a-hexahydrobenzo[5,6]cyclohepta[1,2,3-ij]isoquinoline derivatives as dopamine receptor ligands. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 1447-1458.	1.4	4
84	Synthesis and Benzodiazepine Receptor Binding Activity of 2, 9-Disubstituted Quinolino[2,3- <i>b</i>], 4[(3-pyrazolino)[3, 2- <i>b</i>]purin-4-ones. <i>Archiv Der Pharmazie</i> , 2002, 335, 207.	2.1	4
85	An antibody-free strategy for screening putative HDM2 inhibitors using crude bacterial lysates expressing GST-HDM2 recombinant protein. <i>Drug Testing and Analysis</i> , 2013, 5, 596-601.	1.6	4
86	Translocator Protein 18-kDa: a promising target to treat neuroinflammation-related degenerative diseases. <i>Current Medicinal Chemistry</i> , 2022, 29, .	1.2	4
87	Carbonic anhydrase activation profile of indole-based derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 1783-1797.	2.5	3
88	Translocator Protein Ligand PIGA1138 Reduces Disease Symptoms and Severity in Experimental Autoimmune Encephalomyelitis Model of Primary Progressive Multiple Sclerosis. <i>Molecular Neurobiology</i> , 2022, 59, 1744-1765.	1.9	3
89	2,3-BUTANEDIONE INACTIVATES THE [3 H]NITRENDIPINE BINDING SITES, WHEREAS DIETHYLPYROCARBONATE DOES NOT. <i>Neurochemistry International</i> , 1996, 29, 623-627.	1.9	2
90	Characterization of a cloned <i>Xenopus laevis</i> Serotonin 5-HT1A receptor expressed in the NIH-3T3 cell line. <i>Molecular Brain Research</i> , 1999, 63, 380-383.	2.5	2

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91	Regulation of agonist binding to rat ETB receptors by cations and GTP[SII]Abbreviations: ETS, endothelins; ETR, endothelin receptors; GTP[S, guanosine 5'-O-(2-thiotriphosphate); BQ 788, N-cis-2,6-dimethylpiperidinocarbonyl-L-[³ MeLeu-d-Trp(COOMe)-d-Nle-ONa; IRL 1620, suc-[Glu9, Ala11,15]-endothelin-1 (8-21); and PMSF, phenylmethanesulphonyl fluoride.. Biochemical Pharmacology, 2001, 62, 537-545.	2.0	1
92	Relationship of behavioral inhibition to separation anxiety in a sample (N=377) of adult individuals with mood and anxiety disorders. Comprehensive Psychiatry, 2022, 116, 152326.	1.5	1
93	Characterization of a voltage-dependent L-type calcium channel from rabbit and turtle brain. Neurochemical Research, 1996, 21, 537-540.	1.6	0
94	Synthesis and Benzodiazepine Receptor Binding Activity of 2,9-Disubstituted Quinolino[2,3-b,4](3-pyrazolino)[3,2-b]purin-4-ones (VII).. ChemInform, 2002, 33, 169-169.	0.1	0
95	Synthesis of Novel 4-Aryl-1,2,3,4-tetrahydroisoquinolines as Probes for Dopamine Receptor Ligands. Medicinal Chemistry, 2012, 8, 699-704.	0.7	0