Reference list

last update: 2017-10-05

** Includes relevant publications on AT2 receptor platform, C21 original publications and reviews*

** C21 publications marked in pink*

AT2 receptor and reviews:		
Steckelings et al	Successful completion of a phase I, randomized, double-blind, placebo controlled, single ascending dose trial for the first in class angiotensin at2 receptor agonist compound 21	Journal of Hypertension: September 2017. doi: 10.1097/01.hjh.0000523257.57873.95
Carey RM	Update on angiotensin AT2 receptors	Curr Opin Nephrol Hypertens. 2017 Mar;26(2):91-96. doi: 10.1097/MNH.0000000000000304
Chow and Allen et al	Angiotensin II type 2 receptor (AT2R) in renal and cardiovascular disease	Clin Sci (Lond). 2016 Aug 1;130(15):1307-26. doi: 10.1042/CS20160243
Chang KH, et al	Vasculopathy-associated hyperangiotensinemia mobilizes haematopoietic stem cells/progenitors through endothelial AT2R and cytoskeletal dysregulation.	Nat Commun. 2015 Jan 9;6:5914. doi: 10.1038/ncomms6914. PMID: 25574809
Zhao Y et al	Activation of intracellular angiotensin AT2 receptors induces rapid cell death in human uterine leiomyosarcoma cells.	Clin Sci (Lond). 2015 May;128(9):567-78. doi: 10.1042/CS20140627. PMID: 25487516
Guimond MO et al	Saralasin and Sarile Are AT2 Receptor Agonists.	ACS Med Chem Lett. 2014 Aug 18;5(10):1129-32. doi: 10.1021/ml500278g. eCollection 2014 Oct 9. PMID: 25313325 [PubMed]
Leblanc S, et al	Angiotensin II type 2 receptor stimulation improves fatty acid ovarian uptake and hyperandrogenemia in an obese rat model of polycystic ovary syndrome.	Endocrinology. 2014 Sep;155(9):3684-93. doi: 10.1210/en.2014-1185. Epub 2014 Jun 27. PMID: 24971613 [PubMed - indexed for MEDLINE]
Balia C, et al	Compound 21, a selective angiotensin II type 2 receptor agonist, downregulates lipopolysaccharide-stimulated tissue factor expression in human peripheral blood mononuclear cells.	Blood Coagul Fibrinolysis. 2014 Jul;25(5):501-6. doi: 10.1097/MBC.0000000000000092. PMID: 24914880 [PubMed - in process]
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Leonhardt et al	Evidence for functional interaction between the AT2-receptor and the receptor mas	Jrnl of Hypertension Vol 31e-Supplement A, June 2013. Abstract 7D.01, page e107
Mogi et al	Roles of Brain Angiotensin II in Cognitive Function and Dementia	Hypertension, Vol 2012; 7 pages doi: 10.1155/2012/169649
Anand et al	Mechanisms underlying clinical efficacy of Angiotensin II type 2 receptor (AT2R) antagonist EMA401 in neuropathic pain: clinical tissue and in vitro studies	Mol Pain. 2015 jun 26;11:38. doi:10.1186/s 12990-015-0038-x
Steckelings et al	AT2 receptor agonists: hypertension and beyond.	Curr Opin Nephr Hypert, 2012; 21: 142-146
Murugaish et al	From the first selective non-peptide AT(2) receptor agonist to structurally related antagonists	J Med Chem, 2012; 55: 2265-2278
Steckelings et al	Angiotensin II type 2 receptor agonists--where should they be applied?	Expert Opin Emerg Drugs, 2012; 21: 763-766
Bosnyak et al	Relative affinity of angiotensin peptides and novel ligands at AT1 and AT2 receptors	Clin Sci, 2011; 121: 297-303
Mogi et al	New antihypertensive drugs including angiotensin II type 2 receptor agonist - ARTICLE IN JAPANESE	NNKZ, 2011; 100: 432-440
Steckelings et al	Non-peptide AT2-receptor agonists	Cur Opinion Pharma, 2011; 11: 187-192
Funke-Kaiser et al	Adapter proteins and promoter regulation of the angiotensin AT2 receptor – implications for cardiac pathophysiology	JRAAS, 2010; 11; 7-17
Tamargo et al	Novel therapeutic targets for the treatment of heart failure	NRDD, 2010;10: 536-555 (544 has AT2 info)
Unger T and Dahlöf B	Compound 21, the first orally active, selective agonist of the angiotensin type 2 receptor (AT2): implications for AT2 receptor research and therapeutic potential	JRAAS, 2010; 11: 75-77
Åberg et al	Synthesis and evaluation of a 11C-labelled angiotensin II AT2 receptor	JLCR, 2010;53; 616-624
Siragy HM	Angiotensin II subtype 2 receptor:potential therapy	J Clin Hypertens, 2009;11: 26-29
Steckelings et al	The past, present and future of angiotensin II type 2 receptor stimulation	JRAAS, 2009;11: 67-73
Altarche-Xifro et al	Cardiac c-kit+AT2+ cell population is increased in response to ischemic injury and supports cardiomyocyte performance	Stem Cells, 2009;27: 2488-2497
Coleman CG et al	Angiotensin II type 2 (AT2) receptors have a major somatodendritic distribution in vasopressin-containing neurons in the mouse hypothalamic paraventricular nucleus	Neuroscience, 2009 Sept 29; 129-142
Brillante DG et al	Arterial stiffness and haemodynamic response to vasoactive medication in subjects with insulin-resistance syndrome	Clinical Science, 2008; 114: 139-147
Georgsson et al	Synthesis of a new class of druglike angiotensin II c-terminal mimics with affinity for the AT2 receptor	J. Med. Chem, 2007;50: 1711-1715
Wu et al	Selective angiotensin II AT2 receptor agonists: arylbenzylimidazole structure-activity relationships	J Med Chem, 2006; 4: 7160-7168
Steckelings et al	Differential expression of angiotensin receptors in human cutaneous wound healing	British Jrnl of Dermatology, 2005;153: 887-893
Rosenström et al	New selective AT2 receptor ligands encompassing a gamma-turn mimetic replacing the amino acid residues 4-5 of angiotensin II act as agonists	J Med Chem, 2005; 48: 4009-4024
Georgsson et al	Angiotensin II pseudopeptides containing 1,3,5-trisubstituted benzene scaffolds with high AT2 receptor affinity	J Med Chem, 2005; 48: 6620-6631
Wan et al	Design, synthesis, and biological evaluation of the first selective nonpeptide AT2 receptor agonist	J Med Chem, 2004; 47: 5995-6008

New

Horiuchi M, et al	Recent progress in angiotensin II type 2 receptor research in the cardiovascular system	Hypertension, 1999; 33: 613-621	
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Hein L et al	Behavioural and cardiovascular effects of disrupting the angiotensin	Nature, 1995; 377	
Mukoyama M, et al	Expression cloning of type 2 angiotensin II receptor reveals a unique class of seven-transmembrane receptors	The Journal of Biological Chemistry, 1993; 268 No 33; 24539-24542	
Atherosclerosis, Vascular and blood pressure			
Sampson et al	Compound 21, a selective agonist of angiotensin AT2 receptors, prevents	Br J Pharmacol. 2016 Feb;173(4):729-40. doi: 10.1111/bph.13063. Epub 2015 Jun 29	
Caillon et al	The angiotensin II type 2 receptor activates flow-mediated outward remodelling through T cells-dependent interleukin-17 production.	Cardiovasc Res. 2016 Oct;112(1):515-25. doi: 10.1093/cvr/cvw172. Epub 2016 Jun 21	
Carey	AT2 Receptors: Potential Therapeutic Targets for Hypertension With Activation of PPARγ		
Kukida et al	Angiotensin II Type 2 Receptor Inhibits Vascular Intimal Proliferation With Activation of PPARγ	Am J Hypertens. 2016 Jun;29(6):727-36. doi: 10.1093/ajh/hpv168. Epub 2015 Oct 15	
Dai SY et al	Central Infusion of Angiotensin II Type 2 Receptor Agonist Compound 21 Attenuates DOCA/NaCl-Induced Hypertension in Female Rats	Oxidative Medicine and Cellular Longevity Volume 2016 (2016), Article ID 3981790, 9 pages	
Kemp BA et al	AT2 Receptor Activation Prevents Sodium Retention and Reduces Blood Pressure in Angiotensin II-Dependent Hypertension	Circ Res. 2016 Aug 5;119(4):532-43. doi: 10.1161/CIRCRESAHA.116.308384. Epub 2016 Jun	
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Brouwers et al	8d.09: nighttime hypotensive effects of central Angiotensin ii type 2 receptor stimulation through improved spontaneous baroreflex sensitivity: more in shr than in wky	J hypertens . 2015 Jun;33 Suppl 1:e116. doi:10.1097/01.hjh.0000467663.61532.18.	
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Bruce E et al	Abstract 18903: Stimulation of Angiotensin Type 2 Receptor as a Potential Therapy for Pulmonary Hypertension	Circulation, 2012; 126: A18903	
Rehman et al	Angiotensin type 2 receptor agonist compound 21 reduces vascular injury and myocardial fibrosis in stroke-prone spontaneously hypertensive rats	Hypertension, 2012; 59: 291-299	
Verdonk et al	Compound 21 Induces Vasorelaxation via an Endothelium- and Angiotensin II Type 2 Receptor-Independent Mechanism	Hypertension, 2012; 60: 722-729	
Paulis L et al	Direct angiotensin II type 2 receptor stimulation in Nω-nitro-L-arginine-methyl ester-induced hypertension:the effect on pulse wave velocity and aortic remodeling	Hypertension 2012 feb;59(2):485-92	
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Habashi J et al	Angiotensin II type 2 receptor signaling attenuates aortic aneurysm in mice through ERK antagonism	Science, 2011 april 15; 332(6027):361-365	
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Sales VL et al	Angiotensin type 2 receptor is expressed in murine atherosclerotic lesions and modulates lesion evolution	Circulation, 2005;112:3328-3336	
Stoll M et al	The angiotensin AT2 receptor mediates inhibition of cell proliferation in coronary endothelial cells	J Clin Invest, 1995; 95: 651-657	
Brain and neural mechanisms (incl stroke):			
Abdelrahman Y	Role of interleukin-10 in the neuroprotective effect of the Angiotensin Type 2 Receptor agonist, compound 21, after ischemia/reperfusion injury the Angiotensin Type 2 Receptor agonist, compound 21, after ischemia/reperfusion injury	European jrnl of Pharmacology Volume 799, 15 March 2017, Pages 128-134	New
Bennion DM et al	Post-stroke angiotensin II type 2 receptor activation provides long-term neuroprotection in aged rats	pmid:28671997 pmcid: pmc5495490 doi: 10.1371/journal.pone.0180738	New
Fouda et al	Role of interleukin-10 in the neuroprotective effect of the Angiotensin Type 2 Receptor agonist, compound 21, after ischemia/reperfusion injury	Endocrinology. 2016 Aug;157(8):3167-80. doi: 10.1210/en.2016-1131. Epub 2016 Jun 6	

De Kloet et al	Angiotensin Type-2 Receptors Influence the Activity of Vasopressin Neurons	Endocrinology. 2016 Aug;157(8):3167-80. doi: 10.1210/en.2016-1131.	
Gallego-Delgado et al	Angiotensin receptors and β-catenin regulate brain endothelial integrity in malaria	J Clin Invest. 2016 Oct 3;126(10):4016-4029. doi: 10.1172/JCI87306. Epub 2016 Sep 19.	
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Min L-J et al.	Direct Stimulation of Angiotensin II Type 2 Receptor Initiated After Stroke Ameliorates Ischemic Brain Damage	Am J Hypertens. 2014; 27(8):1036-1044	
Valero-Esquitino V et al.	Direct angiotensin AT2-receptor stimulation attenuates T-cell and microglia activation and prevents demyelination in experimental autoimmune encephalomyelitis in mice	Clinical Science 214,doi 10.1042/CS20130601	
Sumners et al	Protective arms of the renin-angiotensin-system in neurological disease	Clin Exp Pharmacol Physiol. 2013 Aug;40(8):580-8. doi: 10.1111/1440-1681.12137.	
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Shraim et al	Microbore liquid chromatography with UV detection to study the in vivo passage of compound 21, a non-peptidergic AT2 receptor agonist, to the striatum in rats	J Neurosci Methods, 2011; 202: 137-142	
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Mertens et al	Direct angiotensin II type 2 receptor stimulation decreases dopamine synthesis in the rat striatum	Neuropharmacology, 2010; 58: 1038-1044	
Mertens et al	The role of the central renin-angiotensin system in Parkinson's disease	JRAAS, 2010; 11: 49-56	
Gao et al	Imbalance of angiotensin type 1 receptor and angiotensin II type 2 receptor in the rostral ventrolateral medulla: potential mechanism for sympathetic overactivity in heart failure	Hypertension, 2008; 52: 708-714	
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Wang et al	Anti-fibrotic potential of AT2 receptor agonists	Frontiers in Pharmacology. August 2017; Vol 8. Art 564	New
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Moltzer et al	The role of the renin-angiotensin system in thoracic aortic aneurysms: Clinical implications	Pharma Ther. 2011; 131: 50-60
Curato et al	Identification of noncytotoxic and IL-10-producing CD8+AT2R+ T cell population in response to ischemic heart injury	J Immunol. 2010; 185: 6286-6293
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Casselbrant et al	Angiotensin II exerts dual actions on sodium-glucose transporter 1-mediated transport in the human jejunal mucosa	Scand J Gastroenterol. 2015;50(9):1068-75. doi: 10.3109/00365521.2015.1019557. Epub 2015 Apr 10 eCollection 2016.
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