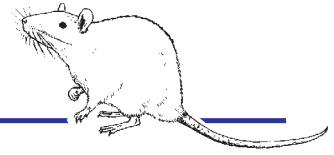




Rat Renal Publication References



Renal Validations

- 35V Amarel, S.L., Michelini, L.C., "Validation of Transit-Time Flowmetry for Chronic Measurements of Regional Blood Flow in Resting and Exercising Rats," *Brazilian Journal of Medical and Biological Research*, Vol. 30, p. 897-908, 1997. (*rat, renal, iliac, chronic, 1RB, 2SB probe*)
- 30V Wen, C., Li, M., Whitworth, J.A., "Validation of Transonic Small Animal Flowmeter for Measurement of Cardiac Output and Regional Blood Flow in the Rat," *Journal of Cardiovascular Pharmacology*, Vol. 27, No. 4, p. 482-486, 1996.
- 21V Welch, W.J., Deng, X., Snellen, H., Wilcox, C.S., "Validation of Miniature Ultrasonic Transit-Time Flow Probes for Measurement of Renal Blood Flow in Rats", *American Journal of Physiology*, Vol. 268, No 1, Pt 2, p. F175-178, 1995.

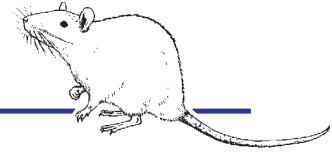
Renal Applications

- 6954A Muller V, - Brummer D, Kissler H, Yedibela S, Bauer M, Erhardt W, Henke J, Amann K, Tannapfel A, Hohenberger W, Ott R, "Effects of portal vein arterialization on regeneration and morphology in liver transplantation: investigations using the rat model," *Transplantation*. - 2004 Oct 27;78(8):1159-65.
- 6945A Bivol LM - Vagnes OB, Iversen BM, "The renal vascular response to ANG II injection is reduced in the non-clipped kidney of two-kidney, one clip hypertension," *Am J Physiol Renal Physiol*. - 2005 Mar 22; (rat, renal)
- 3032A Griffin KA, Picken MM, Bidani AK., "Deleterious effects of calcium channel blockade on pressure transmission and glomerular injury in rat remnant kidneys," *J Clin Invest*. 1995 Aug; 96(2): 793-800. (rat, renal)
- 2980A Walkowska A, Badzyska B, Kompanowska-Jeziarska E, Johns EJ, Sadowski J., " Effects of renal nerve stimulation on intrarenal blood flow in rats with intact or inactivated NO synthases." *Acta Physiol Scand*. 2005 Jan;183(1):99-105. (rat, acute, renal a)
- 2978A de Paula PM, Machado BH., "Changes in regional vascular resistance in response to microinjection of L-glutamate into different antero-posterior coordinates of the RVLM in awake rats." *Auton Neurosci*. 2001 Mar 23;87(2-3):301-9. (rat, chronic, superior mesenteric, inferior abdominal aorta, renal a.)
- 2945A Badzyska B, Grzelec-Mojzesowicz M, Sadowski J., "Effect of exogenous angiotensin II on renal tissue nitric oxide and intrarenal circulation in anaesthetized rats.," *Acta Physiol Scand*. 2004 Nov;182(3):313-8. (rat, renal, acute)
- 2946A Badzyska B, Grzelec-Mojzesowicz M, Sadowski J., "Prostaglandins but not nitric oxide protect renal medullary perfusion in anaesthetised rats receiving angiotensin II.," *J Physiol*. 2003 May 1;548(Pt 3):875-80. (rat, renal, acute)
- 2947A Just A, Arendshorst WJ., "Dynamics and contribution of mechanisms mediating renal blood flow autoregulation.," *Am J Physiol Regul Integr Comp Physiol*. 2003 Sep;285(3):R619-31. (rat, renal, acute)
- 2948A Kopkan, L., Navar, G., Majid, D.S.A., "Superoxide Anion Modulates Renal Hemodynamics and Excretory Function in Angiotensin II Infused Hypertensive Rats," *ASN 2004 Abstracts F-PO640* (rat, renal, acute)
- 2950A Bidiani, A.K., et al., "Pressure-Flow Relationships and Transfer Functions in Kidneys of Angiotensin II Infused Conscious Rats, *ASN Abstracts*, 2004. (rat, renal, chronic)
- 2883A Liu LM, Ward JA, Dubick MA, "Hemorrhage-induced vascular hyporeactivity to norepinephrine in select vasculatures of rats and the roles of nitric oxide and endothelin," *Shock*. 2003 Mar;19(3):208-14. (rat, renal, coeliac, sma, femoral)
- 2847A Flemming B, Arenz N, Seeliger E, Wronski T, Steer K, Persson PB., "Time-dependent autoregulation of renal blood flow in conscious rats," *J Am Soc Nephrol*. 2001 Nov; 12(11): 2253-62. (*rat, renal, chronic, 1RB*)
- 2845A Bergstrom G, Johansson I, Wickman A, Gan L, Thorup C, "Brief losartan treatment in young spontaneously hypertensive rats abates long-term blood pressure elevation by effects on renal vascular structure," *J Hypertens*. 2002 Jul; 20(7): 1413-21. (*rat, renal, acute*)
- 2834A Batkai S, Jarai Z, Wagner JA, Goparaju SK, Varga K, Liu J, Wang L, Mirshahi F, Khanolkar AD, Makriyannis A, Urbaschek R, Garcia N Jr, "Endocannabinoids acting at vascular CB1 receptors mediate the vasodilated state in advanced liver cirrhosis," *Nat Med*. 2001 Jul;7(7):827-32. (*rat, renal, acute*)
- 2803A Wang X, Salevsky FC, Cupples WA, "Nitric oxide, atrial natriuretic factor, and dynamic renal autoregulation," *Can J Physiol Pharmacol*, 77(10):777-86, 1999. (*rat, renal, acute*)





Rat Renal Publication References

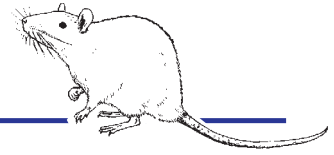


- 2797A Paixao AD, Nunes FA, Leger C, Alessio ML, "Renal effects of essential fatty acid deficiency in hypopenic and volume-expanded rats," *Kidney Blood Press Re*, Vol. 25, No. 1, p. 27-33, 2002. (*rat, renal, chronic*)
- 2793A Wang X, Cupples WA, "Interaction between nitric oxide and renal myogenic autoregulation in normotensive and hypertensive rats," *Can J Physiol Pharmacol*, *Can J Physiol Pharmacol*.ol. 79, No. 3, p. 238-45, 2001. (*rat, renal, acute*)
- 2786A Norman JT, Stidwill R, Singer M, Fine LG, "Angiotensin II blockade augments renal cortical microvascular pO₂ indicating a novel, potentially renoprotective action," *Nephron Physiol*, Vol. 94, No. 2, p39-46, 2002. (*rat, renal, acute*)
- 2784A Christiansen RE, Roald AB, Tenstad O, Iversen BM, "Renal hemodynamics during development of hypertension in young spontaneously hypertensive rats," *Kidney Blood Press Res*, Vol 5, No. 5, p. 322-8, 2002. (*rat, renal, acute*)
- 2766A Vuong TD, Braam B, Willekes-Koolschijn N, Boer P, Koomans HA, Joles JA., "Hypoalbuminaemia enhances the renal vasoconstrictor effect of lysophosphatidylcholine," *Nephrol Dial Transplant*. 2003 Aug;18(8):1485-92. (*rat, renal a., acute, 1RB*)
- 2765A Racasan S, Joles JA, Boer P, Koomans HA, Braam B., "NO dependency of RBF and autoregulation in the spontaneously hypertensive rat.," *Am J Physiol Renal Physiol*. 2003 Jul;285(1):F105-12. (*rat, renal a., acute, 1RB*)
- 2764A Turkstra E, Braam B, Koomans HA., "Normal TGF responsiveness during chronic treatment with angiotensin-converting enzyme inhibition: role of AT1 receptors," *Hypertension*. 2000 Nov;36(5):818-23. (*rat, renal, acute, 1RB*)
- 2763A Racasan S, Turkstra E, Joles JA, Koomans HA, Braam B., "Hypoxanthine plus xanthine oxidase causes profound natriuresis without affecting renal blood flow autoregulation." *Kidney Int*. 2003 Jul;64(1):226-31. (*rat, renal, acute, 1RB*)
- 2762A Turkstra E, Braam B, Koomans HA., "Nitric oxide release as an essential mitigating step in tubuloglomerular feedback: observations during intrarenal nitric oxide clamp.," *J Am Soc Nephrol*. 1998 Sep;9(9):1596-603. (*rat, renal, acute, 1RB*)
- 2761A Turkstra E, Boer P, Braam B, Koomans HA., "Increased availability of nitric oxide leads to enhanced nitric oxide dependency of tubuloglomerular feedback in the contralateral kidney of rats with 2-kidney, 1-clip Goldblatt hypertension.," *Hypertension*. 1999 Oct;34(4 Pt 1):679-84. (*rat, renal, acute, 1RB*)
- 2714A de Paula PM, Machado BH., "Changes in regional vascular resistance in response to microinjection of L-glutamate into different antero-posterior coordinates of the RVLM in awake rats" .*Auton Neurosci*. 2001 Mar 23;87(2-3):301-9. (*abdominal aorta., superior mesenteric, renal a., chronic*)
- 2712A Knoll T, Oltersdorf J, Gottmann U, Schaub M, Michel MS, Kirchengast M, van der Woude FJ, Rohmeiss P, Braun C., "Influence of acute selective endothelin-receptor-A blockade on renal hemodynamics in a rat model of chronic allograft rejection," *Transpl Int*. 2003 Jun;16(6):425-9. (*rat, renal a., chronic*)
- 2698A Tofovic, S.P., Dubey, R., Salah, E.M., Jackson, E.K., "2-Hydroxyestradiol attenuates renal disease in chronic puromycin aminonucleoside nephropathy," *J Am Soc Nephrol*, Vol. 13, No. 11, p. 2737-47, 2002. (*rat, renal a., acute*)
- 2644A Vassileva, I., Mountain, C., Pollock, D.M., "Functional role of ETB receptors in the renal medulla," *Hypertension*, Vol. 41, No. 6, p. 1359-63, 2003. (*rat, renal a., acute*)
- 2604A Badzyska, B., Grzelec-Mojzesowicz, M., Sadowski J., "Differential Effect of Angiotensin II on blood Circulation in the Renal Medulla and Cortex of Anaesthetised Rats." *Journal of Physiology*, vol. 538, p. 159-166, 2002. (*rat, renal, acute*)
- 2595A Turkstra, E., Braam, B., Koomans, HA., "Impaired Renal Blood Flow Autoregulation in Two-kidney, One-clip Hypertensive Rats is Caused by enhanced Activity of Nitric Oxide." *Journal of American Society of Nephrology*, Vol. 11, Part. 5, p. 847-55, May 2000. (*rat, renal, chronic*)
- 2556A Hocher, B., Kalk, P., Slowinski, T., Godes, M., Mach, A., Herzfeld, S., Wiesner, D., Arck, P.C., Neumayer, H-H., Nafz, B., "ETA receptor blockade induces tubular cell proliferation and cyst growth in rats with polycystic kidney disease," *J Am Soc Nephrol*, Vol. 14, No. 2, p. 367-76, 2003. (*rat, renal a., acute*)
- 2552A Loutzenhiser, R., Bidani, A., Childton, L., "Renal myogenic response: kinetic attributes and physiological role," *Circ Res*, Vol. 90, No. 12, p. 1316-24, 2002. (*rat, renal, chronic*)
- 2519A Deng, A., Hammes, J.S., Thomson, S.C., "Hemodynamics of early tubuloglomerular feedback resetting during reduced proximal reabsorption," *Kidney International*, Vol. 62, No. 6, p. 2136-43, 2002. (*rat, renal, acute*)





Rat Renal Publication References

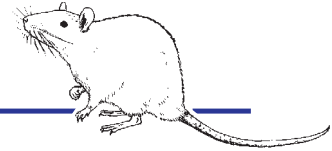


- 2515A Muller, V., Losonczy, G., Heemann, U., Vannay, A., Fekete, A., Reusz, G., Tulassay, T., Szabo, A.J., "Sexual dimorphism in renal ischemia-reperfusion injury in rats: possible role of endothelin," *Kidney Int*, Vol. 62, No. 4, p. 1364-71, 2002. (*rat, renal, acute*)
- 2507A Yamamoto, T., Tomura, Y., Tanaka, H., Kajiya, F., "In vivo visualization of characteristics of renal microcirculation in hypertensive and diabetic rats," *AJP*, Vol. 281, No. 3, p. F561-77, 2001. (*rat, renal a., acute*)
- 2483A Tofovic, S.P., Kost, C.K., Jackson, E.K., Bastacky, S.I., "Long-term caffeine consumption exacerbates renal failure in obese, diabetic, ZSF1 (fa-facp) rats," *Kidney International*, Vol. 61, No. 4, p. 1433-44, 2002. (*rat, renal a., acute*)
- 2472A Joles, J.A., Vuong, T.D., Braam, B., de Kimpe, S., Koomans, H.A., "Despite lack of albumin in Nagase rats, endothelium-dependent function in aorta and kidney is not impaired," *ASN Abstracts 2002:abstracts-on-line.com:F-P0457*. (*rat, renal a., acute*)
- 2471A van Dijk, S.J., SPecht, P.A.C., Jacob, H.J., Provoost, A.P., "Impaired renal blood flow autoregulation in ACI.FHHH-RfB congenic rats," *ASN Abstracts 2002, abstracts-on-line.com, SA-P0341*. (*rat, renal a., acute*)
- 2469A Heyman, S.N., Goldfarb, M., Shina, S., Rosen, S., "The effect of nicotine on the renal microcirculation in anesthetized rats: A potential for medullary hypoxic injury," *ASN Abstracts 2002, abstracts-on-line.com, SA-P0345*. (*rat, renal a., acute*)
- 2451A Tofovic, S.P., Dubey, R.K., Jackson, E.K., "2-hydroxyestradiol attenuates the development of obesity, the metabolic syndrome, and vascular and renal dysfunction in obese ZSF1 rats," *J Pharmacol Exp Ther*, Vol. 299, No. 3, p. 973-7, 2001. (*rat, renal, acute*)
- 2450A Jackson, E.K., Kost, C.K., Herzer, W.A., Smits, G.J., Tofovic, S.P., "A(1) receptor blockade induces natriuresis with a favorable renal hemodynamic profile in SHHF/Mcc-fa(cp) rats chronically treated with salt and furosemide," *J Pharmacol Exp Ther*, Vol. 299, No. 3, p. 978-87, 2001. (*rat, renal, acute*)
- 2426A Haverdings, E.F.G., Haas, M., Navis, G., van Loenen-Weemaes, A., Meijer, D.K.F., de Zeeuw, D., Moolenaar, F., "Renal targeting of captopril selectively enhances the intrarenal over the systemic effects of ACE inhibition in rats," *Br J Pharmacol*, Vol. 136, No. 8, p. 1107-16, 2002. (*rat, renal, acute*)
- 2424A Ladines, C.A., Zeng, C., Asico, L.D., Sun, X., Pocchiari, F., Semeraro, C., Pisegna, J., Wank, S., Yamaguchi, I., Eisner, G.M., Jose, P.A., "Impaired renal D(1)-like and D(2)-like dopamine receptor interaction in the spontaneously hypertensive rat," *AJP*, Vol. 281, No. 4, p. 107108, 2001. (*rat, renal, acute*)
- 2416A Deng, Y., Kaufman, S., "Spleno-renal reflex regulation of arterial pressure," *Hypertension*, Vol. 38, No. 3, p. 348-52, 2001.
- 2384A Pires, S.L., Barres, C., Sassard, J., Julien, C., "Renal blood flow dynamics and arterial pressure lability in the conscious rat," *Hypertension*, Vol. 38, No. 1, p. 147-52, 2001. (*rat, renal, chronic*)
- 2369A Cowley, A.W., Roman, R.J., Kaldunski, M.L., Dumas, P., Dickhout, J.G., Greene, A.S., Jacob, H.J., "Brown Norway Chromosome 13 confers protection from high salt to consomic Dahl S rat," *Hypertension*, Vol. 37, No. 2, p. 456-61, 2001. (*rat, renal, acute*)
- 2366A Griffin, K.A., Picken, M., Bakris, G.L., Bidani, A.K., "Comparative effects of selective T- and L-type calcium channel blockers in the remnant kidney model," *Hypertension*, Vol. 37, No. 5, p. 1268-72, 2001. (*rat, renal, acute*)
- 2365A Jin, X.H., Siragy, H.M., Carey, R.M., "Renal interstitial cGMP mediates natriuresis by direct tubule mechanism," *Hypertension*, Vol. 38, no. 3 p. 309-16, 2001. (*rat, renal, chronic*)
- 2360A Feng, M.G., Dukacz, S.A., Kline, R.L., "Selective effect of tempol on renal medullary hemodynamics in spontaneously hypertensive rats," *AJP*, Vol. 281, No. 5, p. R1420-5, 2001. (*rat, renal, chronic*)
- 2349A Roald, A.B., Tenstad, O., Aukland, K., "The effect of AVP-V2 receptor stimulation on local GFR in the rat kidney," *Acta Physiol Scand*, Vol. 168, No. 2, p. 351-9, 2000. (*rat, renal, acute*)
- 2348A Christiansen, R.E., Roald, A.B., Gjerstad, C., Tenstad, O., Iverson, B.M., "Renal hemodynamics in young and old spontaneously hypertensive rats during intrarenal infusion of arginine vasopressin," *Kidney Blood Press Res*, Vol. 24, No. 3, p. 176-84, 2001. (*rat, renal, acute*)





Rat Renal Publication References

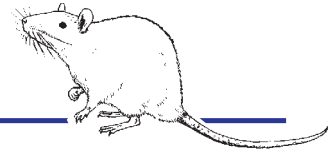


- 2347A Treeck, B., Roald, A.B., Tenstad, O., Aukland, K., "Effect of exogenous and endogenous angiotension II on intrarenal distribution of glomerular filtration rate in rats," J Physiol, Vol. 541, Pt 3, p. 1049-57, 2002. (*rat, renal, acute*)
- 2325A Lo, M., Liu, K.L., Clemitson, J.R., Sassard, J., Samani, N.J., "Chromosome 1 blood pressure QTL region influences renal function curve and salt sensitivity in SHR," Physiol Genomics, Vol. 8, No. 1, p. 15-21, 2002. (*rat, renal a., acute*)
- 2296A Trottier, G., Hollengerg, M., Wang, X., Gui, Y., Loutzenhiser, K., Loutzenhiser, R., "PAR-2 elicited afferent arteriolar vasodilation by NO-dependent and NO-independent actions," AJP, Vol. 282, No. 5, p. F891-7, 2002. (*rat, renal a., acute*)
- 2290A Pires, S.L., Julien, C., Chapuis, B., Sassard, J., Barres, C., "Spontaneous renal blood flow autoregulation curves in conscious sinoaortic baroreceptor-denervated rats," AJP, Vol. 282, No. 1, p. F51-8, 2002. (*rat, renal a., chronic*)
- 2280A Edgley, A.J., Nichols, N.R., Anderson, W. P., "Acute intrarenal infusion of ANG II doesn't stimulate immediate early gene expression in the kidney," AJP, Vol. 282, No. 4, p. 1133-9, 2002. (*rat, renal a., acute*)
- 2238A Roald, A.B., Ofstrad, J., Iversen, B.M., "Attenuated buffering of renal perfusion pressure variation in juxtamedullary cortex in SHR," AJP Renal Physiol, Vol 282, No. 3, p. F506-11, 2002. (*rat, renal a., acute*)
- 2191A Singer, M., Stidwill, R.P., Nathan, A., Gainer, J.L., "Intravenous crocetinate prolongs survival in a rat model of lethal hypoxemia," Crit Care Med, Vol. 28, No. 6, p. 1968-72, 2000. (*rat, aorta, renal a., acute*)
- 2124A Christiansen, R.E., Roald, A.B., Gjerstad, C., Tenstad, O., Iversen, B.M., "Renal hemodynamics in young and old spontaneously hypertensive rats during intrarenal infusion of arginine vasopressin," Kidney Blood Pressure Res, Vol. 24, No. 3, p. 176-84, 2001. (*rat, renal a., acute*)
- 2118A Paizao, A.D., Maciel, C.R., Teles, M.B., Figueiredo-Silava, J., "Regional Brazilian diet-induced low birth weight is correlated with changes in renal hemodynamics and glomerular morphometry in adult age," Biol Neonate, Vol. 80, No. 3, p. 239-46, 2001. (*rat, renal a., acute*)
- 2053A Jackson, E.K., Herzer, W.A., "Regional vascular selectivity of angiotensin II," J Pharmacol Exp Ther, Vol. 297, No. 2, p. 736-45, 2001. (*rat, renal a., superior mesenteric a., acute*)
- 2045A Stidwill, R.P., Rosser, D.M., Singer, M., "Cardiorespiratory, tissue oxygen and hepatic NADH responses to graded hypoxia," Intensive Care Medicine, Vol. 24, No. 11, p. 1209-1216, 1998. (*rat, renal a., acute*)
- 2006A Vuong, T.D., Koomans, H.A., Braam, B., Joles J.A., "Albumin reverses lysophosphatidylcholine-induced renal vasoconstriction in albuminemic rats," ASN Abstracts-On-Line, A2623, 2001. (*rat, renal a., acute*)
- 2005A Racasan, S., Joles, J.A., Koomans, H.A., Braam, B., "Brief perinatal exposure to nitric oxide synthase (NOS) inhibition induces sustained salt-sensitive hypertension in WKY rats," ASN Abstracts-On-Line, A2433, 2001. (*rat, renal a., chronic*)
- 2004A Abu-Amarah, K., Hacioglu, R., Williamson, G., Bidani, A.K., Griffin, K.A., "Differential renal BP-transmission enhancing hemodynamic effects of salt in the stroke resistant (SHR) and stroke prone (SHRsp) rats," ASN Abstracts-On-Line, A2565, 2001. (*rat, renal a., chronic*)
- 1990A Cheng, X., Pang, C.C.Y., "Pressor and vasoconstrictor effects of methylene blue in endotoxaemic rats," Naunyn-Schmiedeberg's Archives of Pharmacology, Vol. 357, No. 6, p. 648-53, 1998. (*rat, mesenteric a., renal a., acute*)
- 1985A Bertram, D., Barres, C., Cheng, Y., Julien, C., "Norepinephrine reuptake, baroreflex dynamics, and arterial pressure variability in rats," AJP, Vol. 279, No. 4, p. 1257-67, 2000. (*rat, renal a., chronic*)
- 1937A Campos, S.B., Rouch, L.H.K., Seguro, A.C., "Effects of sodium artesunate, a new antimalarial drug, on renal function," Kidney International, Vol. 59, No. 3, p. 1044-1051, 2001. (*rat, renal a., acute*)
- 1894A Griffin, K.A., Picken, M.M., Churchill, M., Churchill, P., Bidani, A.K., "Function and structural correlates of glomerulosclerosis after renal mass reduction in the rat," Journal of the American Society of Nephrology, Vol. 11, p. 497-506, 2000. (*rat, renal a, acute*)
- 1893A Wen, C., Fraser, T., Li, M., Turner, S.W., Whitworth, J.A., "Haemodynamic mechanisms of corticotropin (ACTH)-induced hypertension in the rat," J Hypertension, Vol. 17, No. 12Pt1, p. 1715-23, 1999. (*rat, cardiac output, renal a., mesenteric a., femoral a, chronic*)
- 1872A Mashiach, E., Sela, S., Einaver, J., Shasha, S.M., Kristal, B., "Renal ischemia-reperfusion injury: contribution of nitric oxide and renal blood flow," Nephron, Vol. 80, No. 4, p. 458-467, 1998. (*rat, renal a., acute*)





Rat Renal Publication References

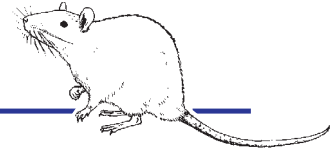


- 1856A Birk, R., Krzossok, S., Knoll, T., Braun, C., van der Woude, F.J., Rohneiss, P., "Preferential COX-2 inhibitor, Meloxicam, compromises renal perfusion in euvolemic and hypovolemic rats," *Experimental Nephrology*, Vol. 8, No. 3, p. 173-180, 2000. (*rat, renal a., acute*)
- 1852A Khattab, M., Hohage, H., Hollah, P., Rahn, K., Schlatter, E., "Effects of diadenosine polyphosphates on systemic and regional hemodynamics in anesthetized rats," *Kidney & Blood Pressure Research*, Vol. 21, No. 1, p. 42-49, 1998. (*rat, femoral a., renal a., cardiac output, acute*)
- 1850A Dukacz, S.A.W., Feng, M., Yang, L., Lee, R.M.K.W., Kline, R.L., "Abnormal renal medullary response to angiotensin II in SHR is corrected by long-term enalapril treatment," *AJP*, Vol. 280, No. 4, p. R1076-84, 2001. (*rat, renal a. acute*)
- 1847A Dietz, J.R., Scott, D.Y., Landon, C.S., Nazian, S.J., "Evidence supporting a physiological role for proANP-(1-30) in the regulation of renal excretion," *AJP*, Vol. 280, No. 5, p. R1510-1517, 2001. (*rat, renal a. acute*)
- 1845A Inoue, R.Y., Gontijo, J., Franchini, K.G., "Hemodilution mediates hemodynamic changes during acute expansion in unanesthetized rats," *AJP*, Vol. 279, No. 6, p. R2243-2251, 2000. (*rat, renal a., chronic*)
- 1828A Wang, X., Cupples, W.A., "Interaction between nitric oxide and renal myogenic autoregulation in normotensive and hypertensive rats," *Can J Physiol Pharmacol*, Vol. 79, No. 3, p. 238-45, 2001. (*rat, renal a., acute*)
- 1815A Campos, S.B., Rouch, L.H., Seguro, A.C., "Effects of sodium artesunate, a new antimalarial drug, on renal function," *Kidney International*, Vol. 59, No. 3, p. 1044-51, 2001. (*rat, renal a., acute*)
- 1756A Turkstra, E., Braam, B., Koomans, H.A., "Losartan attenuates modest but not strong renal vasoconstriction induced by nitric oxide inhibition," *J Cardiobasc Pharmacol*, Vol. 32, No. 4, p. 593-600, 1998. (*rat, renal a., chronic*)
- 1752A Kvam, F.I., Ofstad, J., Iversen, B.M., "Role of nitric oxide in the autoregulation of renal blood flow and glomerular filtration rate in aging spontaneously hypertensive rats," *Kidney Blood Pressure Research*, Vol. 23, No. 6, p. 375-84, 2000. (*rat, renal a., acute*)
- 1677A Flemming, B., Seeliger, E., Wronski, T., Steer, K., Arenz, N., Persson, P., "Oxygen and Renal Hemodynamics in the Conscious Rat," *Journal of the American Society of Nephrology*, Vol. 11,18-24, 2000. (*rat, renal, chronic*)
- 1652A Tolbert, E.M., Weisstuch, J., Feiner, H.D., Dworkin, L.D., "Onset of Glomerular Hypertension with Aging Precedes Injury in the Spontaneously Hypertensive Rat," *American Journal of Physiology*, Vol. 278, No. 5, p. F839-846, 2000. (*rat, renal a.*)
- 1651A Wang, X., Ajikobi, D.O., Salevsky, F.C., Cupples, W.A., "Impaired Myogenic Autoregulation in Kidneys of Brown Norway Rats," *American Journal of Physiology*, Vol. 278, No. 6, p. F962-969, 2000. (*rat, renal a.*)
- 1646A Bidani, A.K., Griffin, K.A., Bakris, G., Picken, M.M., "Lack of evidence of blood pressure-independent protection by renin-angiotensin system blockade after renal ablation," *Kid Intn't*, Vol. 57, No. 4, p. 1651-61, 2000. (*rat, renal a., acute, 1R*)
- 1644A Dukacz, S.A.W., Adams, M.A., Kline, R.L., "Short- and Long-Term Enalapril Affect Renal Redullary Hemodynamics in the Spontaneously Hypertensive Rat," *American Journal of Physiology*, Vol. 276, No. 1, p. R10-16, 1999. (*rat, renal, acute*)
- 1641A Christiansen, R.E.F., Roald, A.B., Tenstad, O., Iversen, B.M., "Renal Hemodynamics in Young Spontaneously Hypertensive Rats (SHR) during Development of Hypertension." *JASN Abstracts*, Vol. 11, No. A1738, 2000. (*rat, renal a., acute*)
- 1640A Bidani, A.K., Griffin, K.A., Abu-Amarah, I., Hacıoglu, R., Williamson, G.A., Loutzenhiser, R., "Differences between "Steady-State" and "Dynamic" Renal Autoregulation (AR) after Renal Mass Reduction (RMR): Implications for Susceptibility to Hypertensive Renal Damage." *JASN Abstracts*, Vol. 11, No. A1869, p. 313A, 2000. (*rat, renal a.*)
- 1639A Grisotto, L.S., Mendes, G.E., Castro, I., Yu, L., Burdmann, E.A., "Mechanisms of Bee Venom-Induced Acute Renal Failure." *JASN*, Vol. 11, No. A0694, p. 181A, 2000. (*rat, renal a., acute*)
- 1633A Bauer, J., Berthold, H., Schaefer, F., Ehmke, H., Parekh, N., "Quantification of Conversion and Degradation of Circulating Angiotensin in Rats," *American Journal of Physiology*, Vol. 277, No. 2, p. R412-418, 1999. (*rat, renal a., mesenteric a.*)
- 1631A Franchini, K.G., "Influence of Hemodilution on the Renal Blood Flow Autoregulation During Acute Expansion in Rats," *American Journal of Physiology*, Vol. 277, No. 6, p. R1662-1674, 1999. (*rat, renal a.*)





Rat Renal Publication References

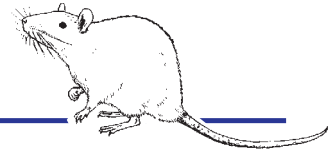


- 1609A Roald, A.B., Tenstad, O., Aukland, K., "The effect of AVP-V2 receptor stimulation on local GFR in the rat kidney," *Acta Physiologica Scandinavica*, Vol. 168, No. 2, p. 351-359, 2000. (*rat, renal a., acute*)
- 1539A Tang, L., Loutzenhiser, K., Loutzenhiser, R., "Biphasic Actions of Prostaglandin E(2) on the Renal Afferent Arteriole: ROle of EP(3) and EP(4) Receptors," *Circulation Research*, Vol. 86, p. 663-670, 2000. (*rat, renal artery*)
- 1491A Albrecht, F.E., Drago, J., Felder R.A., Peinr, M.P., Eisner, G.M., Robillard, J.E., Sibley, D.R., Westphal, H.J., Jose, P.A., "Role of the D1A Dopamine Receptor in the Pathogenesis of Genetic Hypertension," *Journal of Clinical Investigation*, Vol. 97, No. 10, p. 2283-2288, 1996. (*rat, renal artery*)
- 1422A Jacinto, S.M., Mullins, J.J., Mitchell, K.D., "Enhanced Renal Vascular Responsiveness to Angiotensin II in Hypertensive ren-2 Transgenic Rats," *American Journal of Physiology*, Vol. 276, p. F315-F322, 1999. (*rat, renal artery*)
- 1324A Schnackenberg, C.G., Welch, W.J., Wilcox, C.S., "Normalization of Blood Pressure and Renal Vascular Resistance in SHR with a Membrane-Permeable Superoxide Dismutase Mimetic: Role of Nitric Oxide," *Hypertension*, Vol. 32, No. 1, pp. 59-64, 1998. (*rat, renal vasoconstriction, hypertension*)
- 1323A Brodsky, S., Gurbanov, K., Abassi, Z., Hoffman, A., Ruffolo, R.R. Jr., Feuerstein, G.Z., Winaver, J., "Effects of Eprosartan on Renal Function and Cardiac Hypertrophy in Rats with Experimental Heart Failure," *Hypertension*, Vol. 32, No. 4, pp. 746-52, 1998. (*rat, renal artery, congestive heart failure, cardiac hypertrophy*)
- 1322A Schnackenberg, J.D., Wilcox, C.S., "Two-week Administration of Tempol Attenuates both Hypertension and Renal Excretion of 8-Iso Prostaglandin f2alpha," *Hypertension*, Vol. 33, No. 1 Pt 2, pp. 424-428, 1999. (*rat, hypertension, renal vasoconstriction*)
- 1292A Fitzgerald S.M., Evans, R.G., Bergstrom, G., Anderson, W.P., "Renal Hemodynamic Responses to Intrarenal Infusion fo Ligands for the Putative Angiotensin IV Receptor in Anesthetized Rats," *Journal of Cardiovascular Pharmacology*, Vol. 34, No. 2, p. 206 - 211, 1999. (*rat, renal, acute*)
- 1219A Braun, C., Lang, C., Hocher, B., vander Woude, F.J., Rohmeiss, P. "Influence of the Renal Endothelin A system on the Autoregulation of Renal Hemodynamios in SHRs and WKY rats," *Journal of Cardiovascular Pharmacology*, Vol. 31, No. 4, p. 643-648. 1998. (*rat, renal, acute*)
- 1217A Oberti, F., Maiga. M.Y., Veal, N., Fort, J., Kaassis, M., Moal, F., VVILLEMIN, E., Aubé, C., Pilette, C., Rifflet, H., Trouvé, R., Rousselet, M.C., Cales, P., "Measurement of Collateral Circulation Blood Flow in Anesthetized Portal Hypertensive Rats," *Gastroenterol Clin Biol*, Vol. 22, p. 697-704, 1998. (*rat, spleno-renal shunt*)
- 1214A Cales, P., Oberti, F., Veal, N., Fort, J., Kaassis, M., Moal, F., Aubé, C., VVILLEMIN, E., Pilette, C., Rifflet, H., Trouvé, R., "Spleno-renal Shunt Blood Flow by Transit-Time Ultrasound as an Index if Collateral Circualtion in Portal Hypertensive Rats," *Hepatology*, Vol. 28, p. 1269-1274, 1998. (*rat, spleno-renal shunt*)
- 1149A Wen, C., Fraser. T., Li, M., Whitworth, J.A., "Hemodynamic Profile of Corticotropin-induced Hypertension in the Rat," *Journal of Hypertension*, Vol. 16, No. 2, p.187-194, 1998. (*rat renal , mesenteric, hind quarter, cardiac output*)
- 1145A Iversen, B.M., Amann, K., Kvam, F.I., Wang, X., Ofstad, J., "Increased Glomerular Capillary Pressure and Size Mediate Glomerulosclerosis in SHR Juxtamedullary Cortex," *American Journal of Physiology*, Vol. 274, No. 2, Pt. 2, p. F365-F373, 1997. (*renal, rat*)
- 1116A Bergstrom, G., Johansson, I., Stevenson, K.M., Kett, M.M., Anderson, W.P., "Perindopril Treatment Affects both Preglomerular Renal Vascular Lumen Dimensions and In Vico Responsiveness to Vasoconstrictors in Spontaneously Hypertensive Rats," *Hypertension*, Vol. 31, No. 4 p. 1007-1013, 1998. (*dog, chronic*)
- 1095A Heinemann, A., Wachter, C.H., Holzer, P., "Differential Regulation of Mesenteric and Femoral Blood Flow in the Rat as Revealed by Computerized Data Acquisition and Evaluation," *Joun Auton Pharmacol*, Vol. 18, No. 1, p. 39-48, 1998. (*rat, renal, SMA*)
- 1082A Wang, X., Aukland, K., Bostad, L., Iversen, B.M., "Autoregulation of Total and Zonal Glomerular Filtration Rate in Spontaneously Hypertensive Rats with Mesangiolysis," *Kidney, Blood Pressure Research*, Vol.20, No. 1, p. 11-17, 1997. (*renal, rat, acute*)
- 1080A Rothenbach, P., Turnage, R.H., Iglesias, J., Riva, A., Bartula, L., Myers, S.I., "Downstream Effects of Splanchnic Ischemia-Reperfusion Injury on Renal Function and Eicosanoid Release," *Journal of Applied Physiology*, Vol. 83, No. 2, p. 530-536, 1997. (*rat, sma, acute*)





Rat Renal Publication References

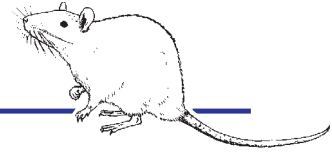


- 1059A Abassi, Z.A., Gurbanov, K., Mulroney, S.E., Potlog, C., Opgenorth, T.J., Hoffman, A., Haramati, A., Winaver, J., "Impaired Nitric Oxide-Mediated renal Vasodilation in Rats with Experimental Heart Failure," *Circulation*, Vol. 96, No. 10, p. 3655-3664, 1997. (*rat, acute, renal a.*)
- 1020A Wilcox, C.S., Deng, X., Doll, A.H., Snellen, H., Welch, W.J., "Nitric Oxide Mediates Renal Vasodilation during Erythropoietin-Induced Polycythemia," *Kidney International*, Vol. 44, No. 2, p. 430-435, 1993. (*rat, renal artery and vein, acute*)
- 1017A Maitra, S.R., Pan, W., Geller, E.R., Henry, M.C., "Alterations in Renal Gluconeogenesis and Blood Flow during Hemorrhagic Shock," *Circulation Shock*, Vol. 41, No. 2, p. 67-70, 1993. (*rat, renal acute*)
- 1002A Stowe, N.T., Inman, S.R., Tapolyai, M., Brouhard, B.H., Hodge, E.E., Novick, A.C., "Lovastatin Has Direct Renal Hemodynamic Effects in a Rodent Model," *The Journal of Urology*, Vol. 156, No. 1, p. 249-252, 1996. (*rat, acute, renal*)
- 996A Welch, W.J., Deng, X., Snellen, H., Wilcox C.S., "Validation of Miniature Ultrasonic Transit-Time Flow Probes for Measurement of Renal Blood Flow in Rats," *American Journal of Physiology*, Vol. 268, No. 1, Pt. 2, p. F175-178, 1995. (*rat, renal, carotid, calibrated syringe pump, microsphere, PAH clearance, ex vivo*)
- 968A Hafez, K.S., Inman, S.R., Stowe, N.T., Novick, A.C., "Renal Hemodynamic Effects of Lovastatin in a Renal Ablation Model," *Urology*, Vol. 48, No. 6, p. 862-867, 1996. (*rat, renal, acute*)
- 957A D'Amico, M., Rossi, F., Warner, T.D., "Cardiovascular Responses Induced by Injection of Endothelin-1 into the Superior Colliculus of Rats," *European Journal of Pharmacology*, Vol. 316, No. 2-3, p. 245-247, 1996. (*rat, renal, acute*)
- 930A Davis, L.S., Haleen, S.J., Doherty, A.M., Cody, W.L., Keiser, J.A., "Effects of Selective Endothelin Antagonists on the Hemodynamic Response to Cyclosporin A1," *Journal of the American Society of Nephrology*, Vol. 4, No. 5, p. 1448-1454, 1994. (*rat, renal, iliac, acute*)
- 927A Rosser, D.M., Stidwill, R.P., Millar, C.G.M., Singer, M., "The Effect of Norepinephrine and Dobutamine on Bladder Epithelial Oxygen Tension," *Chest*, Vol. 108, p. 1368-72, 1995. (*renal, rat, 2SB, acute*)
- 915A Wang, X., Aukland, K., Iversen, B.M., "Autoregulation of total and Zonal Glomerular Filtration Rate in Spontaneously Hypertensive Rats during Antihypertensive Therapy," *Journal of Cardiovascular Pharmacology*, Vol. 28, No. 6, p. 833-841, 1996. (*rat, renal, acute*)
- 907A Li, Q., Bowmer, C.J., Yates, M.S., "The Protective Effect of Glycine in Cisplatin Nephrotoxicity: Inhibition with NG-Nitro-L-Arginine Methyl Ester," *Journal of Pharmacy & Pharmacology*, Vol. 46, No. 5, p. 346-51, 1994. (*rat, renal, acute*)
- 905A Holycross, B.J., Jackson, E.K., "Effects of Chronic Treatment with Caffeine on Kidney Responses to Angiotensin II," *European Journal of Pharmacology*, Vol. 219, No. 3, p. 351-367, 1992. (*rat, renal*)
- 881A LaNoue Jr., J. L., Turnage, R.H., Kadesky, K.M., Guice, K.S., Oldham, K.S., Myers, S.I., "The Effect of Intestinal Reperfusion on Renal Function and Perfusion," *Journal of Surgical Research*, Vol. 64, No. 1, p. 19-25, 1996. (*rat, renal, acute*)
- 880A Myers, S.I., Seelig, A.R., Turnage, R.H., "Long-term Resuscitation of Hemorrhage/Reperfusion Injury (H/R) Stimulates Renal PGE2 Release," *Prostaglandins, Leukocytes, Essential Fatty Acids*, Vol. 54, No. 5, p. 335-339, 1996. (*rat, renal, mesenteric, acute*)
- 801A Wellings, R.P., Warner, T.D., Thiernemann, C., Cristol, J.P., Corder, J.P., Vane, J.R., "Vasoconstriction in the Rat Kidney Induced by Endothelin-1 Is Blocked by PD 145065," *Journal of Cardiovascular Pharmacology*, Vol. 22, Supplement 8, p. S103-106, 1993.
- 800A Cristol, J.P., Warner, T.D., Thiernemann, C., Vane, J.R., "Mediation Via Different Receptors of the Vasoconstrictor Effects of Endothelins and Sarafotoxins in the Systemic Circulation and Renal Vasculature of the Anaesthetized Rat," *British Journal of Pharmacology*, Vol. 108, No. 3, p. 776-779, 1993.
- 799A Cristol, J.P., Thiernemann, C., Mitchell, J.A., Walder, C., Vane, J.R., "Support of Renal Blood Flow after Ischaemic-Reperfusion Injury by Endogenous Formation of Nitric Oxide and of Cyclo-oxygenase vasodilator Metabolites," *British Journal of Pharmacology*, Vol. 109, No. 1, p. 188-194, 1993.





Rat Renal Publication References



- 798A Wellings, R.P., Corder, R., Warner, T.D., Cristol, J.P., Thiemermann, C., Vane, J.R., "Evidence from receptor Antagonists of An Important Role for ETB Receptor-Mediated Vasoconstrictor Effects of Endothelin-1 in the Rat Kidney," *British Journal of Pharmacology*, Vol. 111, No. 2, p. 515-520, 1994.
- 772A Agmon, Y., Brezis, M., "Effects of Nonsteroidal Anti-Inflammatory Drugs Upon Intrarenal Blood Flow: Selective Medullary Hypoperfusion," *Experimental Nephrology*, Vol. 1, No. 6, p. 357-363, 1993.
- 771A Gould, J., Bowmer, C.J., Yates, M.S., "Renal Haemodynamic Responses to Adenosine in Acute Renal Failure," *Nephron*, Vol. 71 p. 184-189, 1995.
- 726A D'Amico, M., Dashwood, M.R., Warner, T.D., "Endothelin-1 and the Periaqueductal Gray Area of the Rat: An Autoradiographic and Function Pharmacological Study," *British Journal of Pharmacology* Vol. 118, No. 1, p. 121-26, 1996.
- 687A Deng, X., Welch, W.J., Wilcox, C.S., "Role of Nitric Oxide in Short-term and Prolonged Effects of Angiotensin II on Renal Hemodynamics," *Hypertension*, Vol 4827, p. 1173-1179, 1996. (*rat, gastric, coeliac, superior mesenteric, carotid, femoral, acute*)
- 680A Pfeifer, C.A., Suzuki, F., Jackson, E.K., "Selective A1 Adenosine receptor Antagonism Augments β -Adrenergic-Induced Renin Release in Vivo," *American Journal of Physiology*, Vol 269, p. F469-479, 1995.
- 678A Bitterman, H., Brod, V., Weisz, G., Kushner, D., Bitterman, N., "Effects of Oxygen on Regional Hemodynamics in Hemorrhagic Shock," *American Journal of Physiology*, Vol. 271, p. H203-H211, 1996. (*rat, renal, abdominal aorta, sma, acute*)
- 627A Saitoh, S., Scicli, A.G., Peteron, E., Carretero, O.A., "Effect of Inhibiting Renal Kallikrein on Prostaglandin E2, Water, and Sodium Excretion", *Hypertension*, Vol. 25, No. 5, p. 1008-1013, 1995.
- 606A Myers, S.I., Turnage, R.H., Hernandez, R., Castenada, A., Valentine, J., "Autoregulation of Renal and Splanchnic Blood Flow Following Infra-Renal Aortic Clamping Is Mediated by Nitric Oxide and Vasodilator Prostanoids," *Journal of Cardiovascular Surgery-Turin* (*sma, renal, supra-coeliac abdominal aorta, rat, acute*)
- 597A Deng, X, Welch, W.J., Wilcox, C.S., "Renal Vasoconstriction during Inhibition of NO Synthase: Effects of Dietary Salt," *Kidney International*, Vol. 46, p. 539-646, 1994.
- 592A Li, Q., Bowmer, C.J., Yates, M.S., "Amelioration of Cisplatin Nephrotoxicity with Glycine: Dose Dependency in Rats", *Journal of Pharmacy and Pharmacology*, Vol. 47, p. 223-226, 1995.
- 589A Eisner, G.M., Yamaguchi, I., Felder, R.A., Asico, L.,D., Jose, P.A., "Role of Renal Dopamine D1 Receptors in Natriuresis Induced by Calcium Channel Blockers", *American Journal of Physiology*, Vol 267, No. 6, Pt 2, p. F965-970, 1994.
- 574A Elhawary, A.M., Pang, C.C., "Renal Vascular and Tubular Actions of Calcitonin Gene-Related Peptide: Effect of NG-Nitro-L-Arginine Methyl Ester", *Journal of Pharmacology and Experimental Therapeutics*, Vol. 273, No. 1, p. 56-63, 1995.
- 573A Vyas, S.J., Jackson, EK, "Angiotensin II: Enhanced Renal Responsiveness in Young Genetically Hypertensive Rats", *Journal of Pharmacology and Experimental Therapeutics*, Vol. 273, No. 2, p. 768-777, 1995.
- 547A Tian, B., Hartle, D.K., "Cardiovascular Effects of NMDA and MK-801 Infusion at Area Postrema and MNTS in Rat", *Pharmacology and Biochemistry of Behavior*, Vol. 49, No. 3, p. 489-495, 1994.
- 455A Li, Q., Bowmer, C.J., Yates, M.S., "Diuretic Effect of Inhibition of N^G-Nitro-L-Arginine Methyl Ester in the Rat", *Journal of Pharmacy and Pharmacology*, Vol. 46, p. 510-512, 1994.
- 454A Li, Q., Bowmer, C.J., Yates, M.S., "The Protective Effect of Glycine in Cisplatin Nephrotoxicity: Inhibition of NG-Nitro-L-Arginine Methyl Ester", *Journal of Pharmacy and Pharmacology*, Vol. 46, p. 346-351, 1994.
- 453A Knight, R.J., Bowmer, C.J., Yates, M.S., "Effect of the Selective A1, Adenosine Antagonist 8-Cyclopentyl-1,3-Dipropylxanthine on Acute Renal Dysfunction Induced by *Escherichia Coli* Endotoxin", *Journal of Pharmacy and Pharmacology*, Vol. 45, p. 979-984, 1993. (*rat renal*)
- 426A Kost, C.K., Herzer, W.A., Jackson, E.K., "Vascular Reactivity to Angiotensin II is Selectively Enhanced in the Kidneys of Spontaneously Hypertensive Rats", *The Journal of Pharmacology and Experimental Therapeutics*, Vol. 269, No. 1, p. 82-88, 1994.
- 425A Jackson, E.K., Herzer, W.A., "Defective Modulation of Angiotensin II-Induced Renal Vasoconstriction in Hypertensive Rats", *Hypertension*, Vol. 23, p. 329-336, 1994.





Rat Renal Publication References



- 354A Griffin, K.A., Bidani, A.K., Ouyang, J., Ellis, V.R, Churchill, M., Churchill, P.C. "Role of Endothelium-Derived Nitric Oxide in Hemodynamic Adaptations after Graded Renal Mass Reduction", *American Journal of Physiology*, Vol. 264 (*Regulative Intragrative Comp. Physiol.* 33) p. R1254-R1259, 1993.
- 348A Winaver, J., Haramati, A., Potlog, C., Shuranyi, E., Hoffman, A., "Involvement of Nitric Oxide (NO) System in the Regulation of Renal and Systemic Blood Flows in Rats with Experimental Congestive Heart Failure", *Journal of the Am. Soc. of Nephrology*, Vol. 4, No. 3, p. 590, 1993.
- 344A Jackson, E.K., Herzer, W.A., "Angiotensin II/Prostaglandin I2 Interactions in Spontaneously Hypertensive Rats", *Hypertension*, Vol. 22, pp. 688-698, 1993.
- 336A Hatton, D.C., Yue, Q., McCarron, D.A., "Impact of Stress-Induced Hypertension on Renal Blood Flow and Vascular Resistance", *Journal of the American Society of Nephrology*, Vol. 4, No. 3, p. 512, 1993.
- 294A Griffin, K.A., Bidani, A.K., Picken, M., Ellis, V.R, Churchill, P.C., "Prostaglandins Do Not Mediate Impaired Autoregulation of Increased Renin Secretion in Remnant Rat Kidneys", *American Journal of Physiology*, Vol. 263 (*Renal Fluid Electrolyte Physiology*. 32) pp. F1057-F1062, 1992.
- 76A Holycross, B.J., Jackson, E.K., "Effects of Chronic Treatment with Caffeine on Kidney Responses to Angiotensin II", *European Journal of Pharmacology*, Vol. 219, pp 361-367, 1992.

