

Peer-Reviewed Publications

1. Slebodzinski A.B., **Nowak G.** (1979) Evidence of the 3,3',5'-triiodothyronine (rT_3) secretion by the thyroid gland of the pig. *Bull. Acad. Polon. Sci.*, 27: 393-397.
2. Slebodzinski A.B., **Nowak G.**, Zamyslowska H. (1980). Serum thyroxine, triiodothyronine and reverse-triiodothyronine in early postnatal period in the pig. *Endocr. Experimentalis*, 14: 73-76.
3. Slebodzinski A.B., **Nowak G.**, Zamyslowska H. (1980). A simple, unifying procedure for radioimmunoassay of thyroxine, triiodothyronine and reverse triiodothyronine in unextracted serum. *Polish Endocrinology*, 31: 537-548.
4. Slebodzinski A.B., **Nowak G.**, Zamyslowska H. (1981). Sequential observations of changes in thyroxine, triiodothyronine and reverse triiodothyronine in early postnatal adaptation of the pig. *Biol. Neonate*, 39: 191-199.
5. **Nowak G.** (1983). Free thyroid hormone levels during the postnatal period in the pig. *Biol. Neonate*, 43: 164-171.
6. **Nowak G.** (1985). Iodothyronine content in the pig thyroid gland. *Comp. Biochem. Physiol.* 80A: 183-186.
7. **Nowak G.**, Slebodzinski A.B. (1986). Extrathyroidal conversion of thyroxine, 3,5,3'-triiodothyronine (T_3) and 3,3',5'-triiodothyronine (rT_3) and its contribution to total triiodothyronines production rates in fed and food restricted piglets. *J. Vet. Med.*, A, 33: 337-348.
8. **Nowak G.** (1987). Existence of extrathyroidal conversion inhibitor (IEC) in starved animals and its influence on thyroid hormones deiodination in liver and kidney in vitro. *Horm. Metab. Res.*, 19: 618-623.
9. **Nowak G.** (1990). The effect of extrathyroidal conversion inhibitor from food deprived animals on iodothyronines deiodination by pituitary and cerebral cortical homogenates in vitro. *Horm. Metab. Res.*, 22: 273-277.
10. **Nowak G.** (1990). Does insulin regulate the serum level of the inhibitor of extra-thyroidal conversion (IEC) of thyroxine? *Med. Sci. Res.* 18: 825-827.
11. **Nowak G.**, Slebodzinski A.B. (1992). Influence of the inhibitor of extrathyroidal conversion of iodothyronines (IEC) on uptake and deiodination of thyroxine (T_4) and 3,3',5'-triiodothyronine (rT_3) in the perfused rabbit liver. *Med. Sci. Res.*, 20: 567-569.
12. **Nowak G.**, Slebodzinski A.B. (1992). Thyroxine (T_4) uptake and deiodination in the rabbit liver during short-term fasting: a perfused liver versus homogenates study. *Med. Sci. Res.*, 20: 571-573.
13. **Nowak G.**, Slebodzinski A.B. (1992). Monodeiodination of 3,3',5'-triiodothyronine (rT_3) to 3,3'-diiodothyronine (3,3'- T_2) and 3',5'-diiodothyronine (3',5'- T_2) in the perfused rabbit liver and the effect of starvation on both deiodinating pathways. *Med. Sci. Res.* 20: 821-823.
14. **Nowak G.**, Schnellmann R.G. (1994). Effect of oleic acid on oxidative and glycolytic metabolism in primary cultures of renal proximal tubule cells. *Med. Sci. Res.* 22: 733-736.
15. **Nowak G.**, Schnellmann R.G. (1995). Improved culture conditions stimulate gluconeogenesis in primary cultures of rabbit renal proximal tubule cells. *Am. J. Physiol.* 268: C1053-C1061.
16. Counts R.S., **Nowak G.**, Wyatt R.D., Schnellmann R.G. (1995). Nephrotoxicant inhibition of renal proximal tubule cell regeneration. *Am. J. Physiol.* 269: F274-F281.
17. **Nowak G.**, Schnellmann R.G. (1995) Integrative effects of EGF on metabolism and proliferation in primary cultures of renal proximal tubule cells. *Am. J. Physiol.* 269: C1317-C1325.
18. **Nowak G.**, Schnellmann R.G. (1996) Autocrine production and TGF- β_1 mediated effects on metabolism and viability in renal cells. *Am. J. Physiol.* 271: F689-F697.
19. **Nowak G.**, Schnellmann R.G. (1996) L-Ascorbic acid regulates growth and metabolism of renal cells: Improvements in cell culture. *Am. J. Physiol.* 271: C2072-C2080.
20. Kays S.E., **Nowak G.**, Schnellmann R.G. (1996) Transforming growth factor- β_1 inhibits regeneration of renal proximal tubular cells after oxidant exposure. *J. Biochem. Toxicol.* 11: 79-84.
21. **Nowak G.**, Griffin J.M., Schnellmann R.G. (1996) Hypoxia and proliferation are primarily responsible for induction of lactate dehydrogenase activity in cultured cells. *J. Toxicol. Environ. Health* 49: 439-452.
22. **Nowak G.**, Schnellmann R.G. (1997) Regeneration of renal proximal tubular cells following toxicant injury: Inhibition by TGF- β_1 vs. stimulation by ascorbic acid. *Toxicol. Appl. Pharmacol.* 145: 175-183.

23. Henle K.J., Jethmalani S.M., Nolen G.T., Wang S-Y, **Nowak G.**, Schnellmann R.G. (1998) The stress response in a leporine renal cell model. *Nephron* 78: 54-62.
24. **Nowak G.**, Aleo M.D., Morgan J.A., Schnellmann R.G. (1998) Recovery of cellular functions following oxidant injury. *Am. J. Physiol. Renal Physiol.* 274: F509-F515.
25. **Nowak G.** (1998) Effect of insulin on the inhibitor of extrathyroidal conversion of thyroid hormones during fasting. *Med. Sci. Res.* 26: 771-775.
26. **Nowak G.**, Keasler K.B., McKeller D.E., Schnellmann R.G. (1999) Differential effects of EGF on repair of cellular functions after dichlorovinyl-L-cysteine-induced injury. *Am. J. Physiol. Renal Physiol.* 276: F228-F236.
27. Groves C.E., **Nowak G.**, and Morales M. (1999) Ochratoxin A secretion in primary cultures of rabbit renal proximal tubule cells. *J. Am. Soc. Nephrol.* 10: 13-20.
28. **Nowak G.** (1999) Effect of insulin on the inhibitor of extrathyroidal conversion of thyroid hormones in the domestic pig. *Med. Sci. Res.* 27: 265-268.
29. Radomska-Pandya A., Chen G., Czernik P.J., Little J.M., Samokyszyn V.M., Carter C.A., and **Nowak G.** (2000). Direct interaction of all trans-retinoic acid with PKC. *J. Biol. Chem.* 275: 22324-22330.
30. **Nowak G.**, Carter C.A., and Schnellmann R.G. (2000) Ascorbic acid promotes recovery of cellular functions following toxicant-induced injury. *Toxicol. Appl. Pharmacol.* 167: 37-45.
31. Moran J.H., **Nowak G.**, Grant, D.F. (2001) Analysis of the toxic effects of linoleic acid, 12,13-cis-epoxyoctadecenoic acid, and 12,13-dihydroxyoctadecenoic acid in rabbit renal cortical mitochondria. *Toxicol. Appl. Pharmacol.* 172: 150-161.
32. Nony P., **Nowak G.**, Schnellmann R.G. (2001) Ascorbic acid-stimulated deposition of collagen IV is associated with repair of renal cell function. *Am. J. Physiol. Renal Physiol.* 281: F443-F453.
33. Nowak G. (2002) PKC- α and ERK1/2 mediate mitochondrial dysfunction, decreases in active Na⁺ transport, and cisplatin-induced apoptosis in renal cells. *J. Biol. Chem.* 277: 43377-43388.
34. **Nowak G.** (2003) Protein kinase C mediates repair of mitochondrial and transport functions following toxicant-induced injury in renal cells. *J. Pharmacol. Exp. Ther.* 306: 1-9.
35. **Nowak G.**, Price P.M., Schnellmann R.G. (2003) The lack of a functional p21^{WAF1/CIP1} gene accelerates caspase-independent apoptosis induced by cisplatin in renal cells. *Am. J. Physiol. Renal Physiol.* 285: F440-F450.
36. **Nowak G.**, Bakajsova D., Clifton G.L. (2004) Protein kinase C- ϵ modulates mitochondrial function and active Na⁺ transport following oxidant injury in renal cells. *Am. J. Physiol. Renal Physiol.* 286: F307-F316.
37. **Nowak G.**, Grant D.F., Moran J.M. (2004) Linoleic acid epoxide, cis-12,13-epoxy-9-octadecenoic acid, promotes the maintenance of mitochondrial function and active Na⁺ transport in renal cells following hypoxia. *Tox. Letters.* 147: 161-175.
38. Liu X., Godwin, M.L., **Nowak G.** (2004) Protein kinase C- α inhibits the repair of oxidative phosphorylation after S-(1,2-dichlorovinyl)-L-cysteine injury in renal cells. *Am. J. Physiol. Renal Physiol.* 287: F64-F73.
39. **Nowak G.**, Clifton G.L., Godwin M.L., Bakajsova D. (2006) Activation of ERK1/2 pathway mediates oxidant-induced decreases in mitochondrial function in renal cells. *Am. J. Physiol. Renal Physiol.* 291: F840-855.
40. Price P.M., Yu F., Kaldis P., Aleem E., **Nowak G.**, Safirstein R., Megyesi J. (2006) Dependence of cisplatin-induced cell death *in vitro* and *in vivo* on cyclin-dependent kinase 2. *J. Am. Soc. Nephrol.* 17: 2434-2442.
41. Shaik S.P., Fifer E.K., **Nowak G.** (2007) Protein kinase B/Akt modulates nephrotoxicant-induced necrosis in renal cells. *Am. J. Physiol. Renal Physiol.* 292: F292-303.
42. Shaik S.P., Fifer E.K., **Nowak G.** (2008) Akt activation improves oxidative phosphorylation in renal proximal tubular cells following nephrotoxicant injury. *Am. J. Physiol. Renal Physiol.* 294: F423-432.
43. **Nowak G.**, Clifton, G.L., Bakajsova, D. (2008) Succinate ameliorates energy deficits and prevents dysfunction of complex I in injured renal proximal tubular cells. *J. Pharmacol. Exp. Ther.* 324: 1-8.