

CURRICULUM VITAE  
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Personal Background

Date of Birth: September 13, 1949  
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Educational Background

Ph.D., University of Oregon Health Sciences Center, Portland, Oregon Major: Biochemistry Minor: Basic Medical Sciences	1971-1976
B.S. with Honors, University of Illinois, Urbana, IL Major: Chemistry and Biochemistry Minor: Physical Science	1967-1971

Awards and Honors

Chair, NIH Alcohol and Toxicology 1 Study Section	1999-2001
Visiting Professor, Univ. of Coimbra, Portugal	1999
Nobel Committee Senior Fellowship	1997-1998
Glaxo Visiting Professor, Washington University	1988-1989
Medical Research Council of Canada Visiting Professor, University of Toronto	1989
Distinguished Visiting Scientist, U. So. Alabama	1987
Albert E. Levy Faculty Research Award	1985
American Society of Biological Chemists Travel Award	1985
National Science Foundation Postdoctoral Fellowship	1976-1977

NIH Predoctoral Fellowship	1971-1976
Illinois State Scholarship	1967-1971
James Scholar	1967-1971
Illinois State Scholar	1967-1971
Association of the U.S. Army Scholarship	1967-1968
International Elks Club Scholarship	1967-1968

Research Experience and Positions Held:

Director, Nutrition and Health Sciences Emory University Atlanta, GA 30322	1998-Present
Professor of Biochemistry Emory University School of Medicine Atlanta, GA 30322	1991-Present
Professor of Ophthalmology (Adjunct) Emory University School of Medicine Atlanta, GA. 30322	1990-Present
Mini-Sabbatical, Center for Toxicology Department of Biochemistry and Biophysics Oregon State University Corvallis, OR	Summer, 1990
Professor of Pediatrics (Adjunct) Emory University School of Medicine Atlanta, GA. 30322	1989-present
Mini-Sabbatical Department of Toxicology Karolinska Institute Stockholm, Sweden	Summer, 1988
Professor Winship Cancer Center Emory University School of Medicine Atlanta, GA 30322	1987-present
Associate Professor of Biochemistry Department of Biochemistry Emory University School of Medicine Atlanta, GA 30322	9/85-9/91
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National Science Foundation  
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### Original Research Publications

1. Jones, D.P., and H.S. Mason (1978). Gradients of O<sub>2</sub> Concentration in Hepatocytes. *J. Biol. Chem.* 253, 4874-4880.
2. Jones, D.P., and H.S. Mason (1978). Apparatus for Automatically Maintaining Cell Suspensions at Low, Constant Oxygen Concentrations. *The Oxystat. Anal. Biochem.* 90, 155-166.
3. Jones, D.P., and H.S. Mason (1978). Metabolic Hypoxia: Accumulation of Tyrosine Metabolites in Hepatocytes and Low pO<sub>2</sub>. *Biochem. Biophys. Res. Commun.* 80, 477-483.
4. Jones, D.P., H. Thor, B. Andersson, and S. Orrenius (1978). Detoxification Reactions in Isolated Hepatocytes. Role of Glutathione Peroxidase, Catalase and Formaldehyde Dehydrogenase in Reactions Relating to N-Demethylation by the Cytochrome P-450 System. *J. Biol. Chem.* 253, 6031-6037.

5. Moldeus, P., D.P. Jones, K. Ormstad, and S. Orrenius (1978). Formation and Metabolism of a Glutathione-S-Conjugate in Isolated Rat Liver and Kidney Cells. *Biochem. Biophys. Res. Commun.* 83, 195-200.
6. Rajs, J., D.P. Jones, and S.W. Jakobsson (1978). Comparison of Anoxic Changes in Isolated Rat Cardiac Myocytes in Suspension and in Histological Sections. *Acta Path. Microbiol. Scand. Sect. A.* 86, 325-332.
7. Jones, D.P., S. Orrenius, and H.S. Mason (1979). Hemoprotein Quantitation in Isolated Hepatocytes. *Biochim. Biophys. Acta*, 576, 17-29.
8. Jones, D.P., G.-B. Sundby, K. Ormstad, and S.Orrenius (1979). Use of Isolated Kidney Cells for Study of Drug Metabolism. *Biochem. Pharmacol.* 28, 929-935.
9. Jones, D.P., P. Moldeus, A.H. Stead, K. Ormstad, H. Jornvall, and S. Orrenius (1979). Metabolism of Glutathione and a Glutathione Conjugate by Isolated Kidney Cells. *J. Biol. Chem.* 254, 2787-2792.
10. Jones, D.P., and J.L. Gaylor (1979). Regulation of Microsomal Stearyl-Coenzyme A Desaturase. Purification of a Non-Substrate-Binding Protein that Stimulates Activity. *Biochem. J.* 183, 405-415.
11. Andersson, B., D.P. Jones, and S.Orrenius (1979). Effect of Calcium Ions on Ethanol Oxidation and Drug Glucuronidation in Isolated Hepatocytes. *Biochem. J.* 184, 709-711.
12. Ormstad, K., D.P. Jones, and S. Orrenius (1980). Characteristics of Glutathione Biosynthesis by Freshly Isolated Rat Kidney Cells. *J. Biol. Chem.* 255, 175-181.
13. Jones, D.P., R.C. Grafstrom, and S. Orrenius (1980). Quantitation of Hemoproteins in Rat Small Intestinal Mucosa with Identification of Mitochondrial Cytochrome P-450. *J. Biol. Chem.* 255, 2383-2390.
14. Ashkar, S., F. Binkley, and D.P. Jones (1981). Resolution of a renal sulfhydryl (Glutathione) Oxidase from -glutamyl-transferase. *FEBS Lett.* 124, 166-168.
15. Jones, D.P., D.B. Meyer, B. Andersson, and S. Orrenius (1981). Conversion of Catalase to the Secondary Catalase-Peroxide Complex (Compound II) by -Methyldopa. *Mol. Pharmacol.* 20, 159-164.
16. Jones, D.P., L. Eklow, H. Thor, and S. Orrenius (1981). Metabolism of Hydrogen Peroxide in Isolated Hepatocytes. Relative Contributions of Catalase and Glutathione Peroxidase in Decomposition of Endogenously Generated H<sub>2</sub>O<sub>2</sub>. *Arch. Biochem. Biophys.* 210, 505-516.
17. Jones, D.P. (1981). Determination of Pyridine Dinucleotides in Cell Extracts by High-Performance Liquid Chromatography. *J. Chromatogr.* 225, 446-449.

18. Jones, D.P. (1981). Intracellular Inhibition of Catalase by  $\alpha$ -Methyldopa. *Res Commun. Chem. Pathol. Pharmacol.* 33, 215-223.
19. Wilson, M.E., D.P. Jones, P. Munkenbeck, and D.C. Morrison (1982). Serum-dependent and -independent effects of bacteria lipopolysaccharides on human neutrophil oxidative capacity *in vitro*. *J. Reticuloendothelial Soc.* 31, 43-57.
20. Lash, L.H., and D.P. Jones (1982). Localization of the membrane-associated thiol oxidase of rat kidney to the basal lateral plasma membrane. *Biochem. J.* 203, 371-376.
21. Jones, D.P. (1982). Intracellular catalase function. Analysis of the catalatic activity by product formation in isolated liver cells. *Arch. Biochem. Biophys.* 214, 806-814.
22. Jones, D.P., and Kennedy, F.G. (1982). Intracellular O<sub>2</sub> gradients in cardiac myocytes. Lack of a role for myoglobin in facilitation of intra-cellular O<sub>2</sub> diffusion. *Biochem. Biophys. Res. Commun.* 105, 419-424.
23. Aw, T.Y., and D.P. Jones (1982). Secondary bioenergetic hypoxia. Inhibition of sulfation and glucuronidation reactions in isolated hepatocytes at low O<sub>2</sub> concentration. *J. Biol. Chem.* 257, 8997-9004.
24. Jones, D.P., and F.G. Kennedy (1982). Intracellular O<sub>2</sub> supply during hypoxia. *Am J. Physiol.* 243, C247-C253.
25. Aw, T.Y., and D.P. Jones (1982). Direct determination of UDP glucuronic acid in cell extracts by high-performance liquid chromatography. *Anal. Biochem.* 127, 32-36.
26. Aw, T.Y., and D.P. Jones (1983). Intracellular inhibition of UDP-glucose dehydrogenase during ethanol oxidation. *Chem. Biol. Interactions*, 43, 283-288.
27. Jones, D.P., H. Thor, M.T. Smith, S.A. Jewell, and S. Orrenius (1983). Inhibition of ATP-dependent microsomal Ca<sup>2+</sup> sequestration during oxidative stress and its prevention by glutathione. *J. Biol. Chem.* 258, 6390-6393.
28. Lash, L.H., and D.P. Jones (1983). Transport of glutathione by renal basal-lateral membrane vesicles. *Biochem. Biophys. Research Commun.* 112, 55-60.
29. Aw, T.Y., D.P. Jones, and D.B. McCormick (1983). Uptake of riboflavin by isolated rat liver cells. *J. Nutr.* 113, 1249-1254.
30. Lash, L.H., and D.P. Jones (1983). Characterization of the membrane-associated thiol oxidase activity of rat small-intestinal epithelium. *Arch. Biochem. Biophys.* 225, 344-352.

31. Walters, F.P., F.G. Kennedy, and D.P. Jones (1983). Oxidation of myoglobin in isolated adult rat cardiac myocytes by 15-hydroperoxy-5, 8, 11, 13-eicosatetraenoic acid. *FEBS Lett.* 163, 292-296.
32. Jones, D.P. (1984). Benzylamine metabolism at low O<sub>2</sub> concentrations. Relative sensitivities of monoamine oxidase, aldehyde dehydrogenase and hippurate synthesis to hypoxia. *Biochem. Pharmacol.* 33, 413-417.
33. Jones, D.P. (1984). A simple high-performance liquid chromatography assay for benzylamine oxidation products in cell suspensions. *J. Chromatogr.* 305, 256-260.
34. Stevens, V.L., T.Y. Aw, D.P. Jones, and J.D. Lambeth (1984). Oxygen dependence of adrenal cortex cholesterol side chain cleavage: Implications in the rate-limiting step(s) in steroidogenesis. *J. Biol. Chem.* 259, 1174-1179.
35. Lee, S.-S., J. Ye, D.P. Jones, and D.B. McCormick (1983). Correlation of H<sub>2</sub>O<sub>2</sub> production and liver catalase during riboflavin deficiency and repletion in mammals. *Biochem. Biophys. Res. Commun.* 117, 788-793.
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39. Lash, L.H., and D.P. Jones (1984). Renal glutathione transport: Characteristics of the sodium-dependent system in the basal-lateral membrane. *J. Biol. Chem.* 259, 14508-14514.
40. Aw, T.Y., D.P. Jones, D.J. O'Shannessy, J.H. Priest, and R.E. Priest (1985). Oxygen dependence of estrogen production by human placental microsomes and cultured choriocarcinoma cells. *J. Steroid Biochem.* 22, 753-758.
41. Andersson, B.S., and D.P. Jones (1985). Use of digitonin fractionation to determine mitochondrial transmembrane ion distribution during anoxia. *Anal. Biochem.* 146, 164-172.
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45. Kennedy, F.G., and D.P. Jones (1986). Oxygen dependence of mitochondrial function in isolated rat cardiac myocytes. *Am. J. Physiol.* 250, C374-C383.
46. Jones, D.P., and F.G. Kennedy (1986). Analysis of intracellular oxygenation of isolated adult cardiac myocytes. *Am. J. Physiol.* 250, C384-C390.
47. Lash, L.H., T.M. Hagen, and D.P. Jones (1986). Exogenous glutathione protects intestinal epithelial cells from oxidative injury. *Proc. Natl. Acad. Sci. (USA)*, 83, 4641-4645.
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51. Hagen, T.M., and D.P. Jones (1987). Transepithelial transport of glutathione in vascularly perfused small intestine of rat. *Am. J. Physiol.* 252, G607-G613.
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56. Aw, T.Y., and D.P. Jones (1987). Respiratory characteristics of neonatal rat hepatocytes. *Pediatr. Res.* 21, 492-496.
57. Aw, T.Y., E. Wilson, T.M. Hagen, and D.P. Jones (1987). Determinants of mitochondrial O<sub>2</sub> dependence in kidney. *Am. J. Physiol.* 253, F440-F447.

58. Hagen, T.M., T.Y. Aw, and D.P. Jones (1988). Glutathione uptake and protection against oxidative injury in isolated kidney cells. *Kidney International* 34, 74-81.
59. Tribble, D.L., D.P. Jones, and D.E. Edmondson (1988). Effect of hypoxia on *tert*-butylhydroperoxide-induced oxidative injury in isolated hepatocytes. *Mol. Pharmacol.* 34, 413-420.
60. Aw, T.Y., and D.P. Jones (1989) Heterogeneity of pH in the aqueous cytoplasm of renal proximal tubule cells. *FASEB J.* 3, 52-58.
61. Tribble, D.L., D.P. Jones, A. Ardehali, R.M. Feeley, and D. Rudman (1989) Hypercysteinemia and delayed sulfur excretion in cirrhotics following oral cysteine loads. *Am. J. Clin. Nutr.* 50, 1401-1406.
62. Nicotera, P., D.J. McConkey, D.P. Jones, and S. Orrenius (1989). ATP stimulates  $\text{Ca}^{2+}$  uptake and increases the free  $\text{Ca}^{2+}$  concentration in isolated rat liver nuclei. *Proc. Natl. Acad. Sci. (USA)*, 86, 453-457.
63. Bai, C., C.S. Slife, T.Y. Aw, and D.P. Jones (1989). Fractionation and analysis of mitochondria by membrane filtration. *Anal. Biochem.* 179, 114-119.
64. Jones, D.P., D.J. McConkey, P. Nicotera, and S. Orrenius (1989). Calcium-activated DNA fragmentation in rat liver nuclei. *J. Biol. Chem.* 264, 6398-6403.
65. Aw, T.Y., and D.P. Jones (1989). Cyanide toxicity in hepatocytes under aerobic and anaerobic conditions. *Am. J. Physiol.* 257, C435-C441.
66. Shan, X., T.Y. Aw, R. Shapira, and D.P. Jones (1989).  $\text{O}_2$  dependence of glutathione synthesis in isolated hepatocytes. *Toxicol. Appl. Pharmacol.* 101, 261-270.
67. Hotchkiss, R.S., R.C. Long, J.R. Hall, G.T. Shires, R.G. Brouillard, W.J. Millikan, and D.P. Jones (1989). An in vivo examination of rat brain during sepsis with  $^{31}\text{P}$  NMR spectroscopy. *Am. J. Physiol.* 257, C1055-C1061.
68. Tribble, D.L., and D.P. Jones (1990). Oxygen dependence of oxidative stress. Rate of NADPH supply for maintaining the GSH pool during hypoxia, *Biochem. Pharmacol.* 39, 729-737.
69. Merrill, A.H., M. Hoel, E. Wang, R.E. Mullins, J.L. Hargrove, D.P. Jones, and I.A. Popova (1990). Differences in carbohydrate, amino acid, lipid, and xenobiotic metabolism in liver and serum samples from rats flown on Cosmos 1987. *FASEB J.* 4, 95-100.
70. Wierzbicka, G.T., T.M. Hagen and D.P. Jones (1990). Glutathione in food. *J. Food Comp. Anal.* 2, 327-337.



71. Kowalski, D.P., R.M. Feeley and D.P. Jones (1990). Use of exogenous glutathione for metabolism of peroxidized methyl linoleate in the small intestine. *J. Nutr.* 120, 1115-1121.
72. Hagen, T.M., G.T. Wierzbicka, A.H. Sillau, B.B. Bowman, and D.P. Jones (1990). Bioavailability of dietary glutathione. Effect on plasma concentration, *Am. J. Physiol.* 259, G524-G529.
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74. Hagen, T.M., C. Bai, and D.P. Jones (1991). Hormonal regulation of glutathione absorption. Stimulation by  $\alpha$ -adrenergic agonists in small intestine. *FASEB J.* 5, 2721-2727.
75. Aw, T.Y., X. Shan, A.H. Sillau, and D.P. Jones (1991). Effect of chronic hypoxia on in vivo drug metabolism in rat. *Biochem. Pharmacol.* 42, 1029-1038.
76. Savage, M.K., D.P. Jones, and D.J. Reed (1991). Calcium- and phosphate-dependent loading of glutathione by liver mitochondria. *Arch. Biochem. Biophys.* 290, 51-56.
77. Aw, T.Y., G. Wierzbicka, and D.P. Jones (1991). Oral glutathione increases tissue glutathione in vivo. *Chem. Biol. Interact.* 80, 89-97.
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80. Kowalski, D.P., T.Y. Aw, Y. Park, and D.P. Jones (1992). Effect of lactate on post-anoxic oxidative stress. *Free Radical Biol. Med.* 12, 205-212.
81. Shan, X., T.Y. Aw, E.R. Smith, M. Ingleman-Sundberg, B. Mannervik, T. Iyanagi, and D.P. Jones (1992). Effect of chronic hypoxia on detoxication enzymes in rat liver. *Biochem. Pharmacol.* 43, 2421-2426.
82. Park, Y., T.M. Devlin, and D.P. Jones (1992). Protective effect of the dimer of 16,16-dimethyl-15-dehydroprostaglandin B<sub>1</sub> against KCN-induced mitochondrial failure in hepatocytes. *Am. J. Physiol.* 263, C405-C411.
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85. Sternberg, P., P. C. Davidson, D.P. Jones, T.M. Hagen, R.L. Reed, and C. Drews-Botsch (1993). Protection of retinal pigment epithelium from oxidative injury by glutathione and precursors. *Invest. Ophthalm. Vis Sci.* 34, 3661-3668
86. Horsley, W.S., J.D. Whitlark, J.D. Hall, J.P. Gott, C. Pan, A. H. Huang, Y. Park, D.P. Jones, R.A. Guyton (1993). Revascularization for acute regional infarct: superior protection with warm cardioplegia. *Ann. Thorac. Surg.* 56, 1228-1237.
87. Chawla, R.K., and D.P. Jones (1994). Abnormal metabolism of S-adenosyl-L-methionine in hypoxic rat liver. Similarities to its abnormal metabolism in alcoholic cirrhosis. *Biochim. Biophys. Acta* 1199, 45-51.
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