

CURRICULUM VITAE

Full Name: Dr Paul Douglas JONES

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Marital Status: Married Nora Leigh Jones (US citizen), 6/2/2001.
Step Daughter, Dana Elizabeth Jones. Born 4/1/1989

Immigration Status: New Zealand citizen and Passport Holder
US Permanent Resident
Canadian Resident

Present Position: Research Scientist
Present Employer: University of Saskatchewan

Academic Qualification:

BSc (First Class Honours), University of Otago, Dunedin, New Zealand, Zoology (1982). **Thesis:** Biochemical Responses of fish to environmental stress in three Otago streams.

PhD, University of Otago, Dunedin, New Zealand, Biochemistry (1987). **Thesis:** Fatty acid binding proteins of the rat mammary gland.

Research Interests:

- Perfluorinated compounds: analytical and environmental chemistry and toxicity
- Fate and effects of trace substances in aquatic ecosystems
- Planar, halogenated hydrocarbons (PCBs, PCDD and PCDF)
- Biochemical toxicology (Biomarkers)
- Environmental toxicology applications of molecular biology techniques
- Marine and Shellfish biotoxins
- The use of multivariate statistical analysis and pattern recognition techniques
- Environmental Contaminants in Marine Mammals
- Aquatic & Wildlife toxicology
- Trace Organic Analytical Quality Assurance
- Avian toxicology and habitat requirements
- Ecological risk assessment
- Agricultural Chemicals
- Endocrine modulating compounds

Teaching Experience:

- 1981-1986 Biology demonstrator (1st year), University of Otago.
- 1983-1988 Biochemistry demonstrator (1st, 2nd and 3rd year), University of Otago.
- 2000-2006 Zoology 446 "Environmental Issues and Public Policy" Capstone undergraduate course at Michigan State University.
- 2004-2006 Zoology 846 "Environmental Chemodynamics" Graduate class at Michigan State University
- 2007 Toxicology 898 "Environmental Chemodynamics" Graduate class, University of Saskatchewan

Postgraduate Students Mentored

Peter J. Day (MSc, Victoria University, 1995/6). **Thesis:** The Bioaccumulation of Persistent Organochlorine Contaminants in a New Zealand Marine Food Chain.

Caren Schröder (MSc, Victoria University, May 1996). **Thesis:** Accumulation of Polychlorinated biphenyls in Pilot Whales (*Globicephala melas*).

Katherine Coady-Kemler (MSc., Michigan State University). **Thesis:** 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin Equivalents (TCDD-EQs) in Tissue Samples from the Denver Metropolitan Area.

Wenyue Hu (MSc. Michigan State University, December 2002). **Thesis:** In Vitro studies of the biochemical toxicity of perfluorooctane sulfonic acid and its possible interaction with 2,3,7,8 – tetrachlorodibenzo-*p*-dioxin.

Wenyue Hu (PhD. Michigan State University, December 2002). **Thesis:** Use of Genomic Screening Methods to Assess the Effects of PFOS on gene expression.

Honors/distinctions

- 1981 University of Otago, Award in Science.
- 1984 Awarded Medical Research Council of New Zealand Postgraduate Scholarship.

Society and Committee Memberships

- 1989- Member, Society for Environmental Toxicology and Chemistry.
- 1990- Member, International Association of Great Lakes Research.
- 1994- Member, Australasian Society for Ecotoxicology.
- 1990-93 Chair, Society of Environmental Toxicology and Chemistry (USA) Committee on formation of SETAC Pacific.

Society and Editorial Board Memberships

- 1994 - Elected regional representative of the Australasian Society for Ecotoxicology
- 1995 - Elected to the Editorial Board of "Environmental Toxicology and Chemistry"
- 2001 - Elected to the Editorial Board of "The Australasian Journal of Ecotoxicology"

2001 - Elected to the Editorial Board of "Environmental Toxicology and Chemistry"

2003 - Appointed Associate Editor "Chemosphere".

Professional Positions Held:

2006-Present Research Scientist, Toxicology Centre, University of Saskatchewan.

2003-2006 Visiting Professor, National Food Safety and Toxicology Center,
Michigan State University.

2001-2003 Visiting Associate Professor, National Food Safety and Toxicology Center,
Michigan State University.

1999-2000 Senior Research Associate, National Food Safety and Toxicology Center,
Michigan State University.

1997-1998 Science Leader Ecotoxicology, ESR (Institute for Environmental Science and
Research), Wellington, New Zealand.

1992-1997 Scientist, ESR. (Institute of Environmental Science and Research.), Wellington,
New Zealand.

1991-1992 Research Fellow, DSIR Chemistry Division. Wellington New Zealand.

1989-1990 Research Associate, Pesticide Research Center, Michigan State University.

1988-1989 Research Associate, Microbiology & Public Health, Michigan State University.

Journals for which Papers have been Reviewed

1. Environmental Toxicology and Chemistry.
2. Environmental Science and Technology
3. Environmental Health Perspectives.
4. Australasian Journal of Ecotoxicology.
5. Toxicological Sciences.
6. Chemosphere.
7. Marine Mammal Science.
8. New Zealand Journal of Marine and Freshwater Research.
9. Marine and Freshwater Research (Australia).
10. Aquatic Toxicology
11. Toxicological Sciences

Current and Recent Consultancies

1. Senior Project Scientist, Giesy Ecotoxicology Inc., Williamston, Michigan.

2. Project Consultant, ENTRIX Inc., Houston, Texas.
3. Preparation of a briefing document for the interagency working group in support of the UNEO Global POPs treaty. "Organochlorine Residues in and Their Effects on Fish and Wildlife of the North American Great Lakes", John P. Giesy, Paul D. Jones, Kurunthachalam Kannan and Alan L. Blankenship.
4. Data Quality Assurance for the assessment of PCB contamination in the Kalamazoo river Area of Concern, MI, USA.
5. Pattern Recognition Techniques for Dioxins and PCBs on the Rocky Mountain Arsenal, CO, USA. For US-EPA.

Funding Attracted (In New Zealand only)

Directors Post Doctoral Research Fellowship (DSIR Chemistry Division)	\$80,000
Foundation for Research Science and Technology (FRST) 1993-1996: "Environmental Effects of Chemical Contaminants"	\$312,000
FRST Non Specific Output Funding (NSOF) 1996-1997:- "Implementation of New Molecular Biology Techniques	\$74,000
FRST Non Specific Output Funding (NSOF) 1997-1998: "Soil Microbial Diversity"	\$60,000
Foundation for Research Science and Technology (FRST) 1997-1998: Environmental Effects of Chemical Contaminants on Cetaceans.	\$80,000
Environment Waikato (Formerly Waikato Regional Council) 1995-1997 The Use of Fish Health Indicators for Environmental Monitoring of the Waikato River	\$67,570
Environment Bay of Plenty (Formerly the Bay of Plenty Regional Council) 1997 Investigation of Chemical Accumulation and Biological Responses of Rainbow trout (<i>Onchorhynchus mykiss</i>) in the Tarawera River	\$20,350
New Zealand Ministry for the Environment (with Kingett Mitchel Ltd.) 1998 Review of Indicators for Toxic Contaminants in the Environment	\$13,770
ESR (Environmental Science and Research Ltd.) Capital Expenditure Program 1998-1999 Assessment of Endocrine Disrupters using Cell Culture Methods	\$56,000
New Zealand Ministry for the Environment 1998 Preparation of Reports for the Organochlorines Program.	\$19,820

In the USA (Only proposals on which PDJ was a significant (>50%) contributor)

Michigan Audubon Society and McGregor Fund

1989-1990 "Biochemical Determination of Mixtures of Co-planar,
Polychlorinated Hydrocarbon in Great Lakes, Fish-eating
Colonial Waterbirds". \$89,135

U.S. Fish and Wildlife Service

1989-1990 "Use of the H-4-II-E rat Hepatoma Cell/Environmental Extract Bioassay
for Determination of 2,3,7,8-Tetrachlorodibenzo-p-dioxin equivalents
in Environmental Samples". \$22,500

U.S. EPA

1989 "Effects of Mixtures of Toxic Chemicals to Colonial, Fish-eating
Water Birds of Green Bay Wisconsin". \$40,000

3M Company

1999-2000 "Perfluorinated Chemicals in the Environment" \$1,300,000

Hercules, Inc.

2000-2001 "Assessment of Toxicity of perfluorinated Compounds" \$75,000

US EPA

2002-2004. "Use of the H295R Human Adrenocortical Carcinoma Line
for Screening for Effects of Compounds on Steroidogenesis" \$341,000

US EPA Science to Achieve Results (STAR) Program on Computational
Toxicology and Biology in Hazard Identification and Risk Assessment.

2004-2007 "Chemical Induced Changes in Gene Expression Patterns
(GEPs) using a Small Fish Model: A Systems Approach". \$750,000

Brown and Caldwell, Maui, Hawaii.

2003 "Analysis of Industrial Chemicals in Waste Waters from
Honolulu". \$19,020

US EPA.

2004-2005 "Optimization of an Assay using the H295R Cell Line to
Identify Chemical Modulators of Steroidogenesis and
Aromatase Activity". \$602,871

Ciba Specialty Chemicals, Manchester, UK.

2003 "Assessment of the Estrogenic Potential of Fluorinated
Compounds". \$15,000

Invited Workshop Participation:

1. Invited external reviewer for the United States National Marine Fisheries Service review of the "Marine Mammal Health and Stranding Response Program" April 1997, Silver Spring Maryland.

2. 17th Pellston Workshop: The Environmental Risk Assessment of Organochlorines. August 1994, Alliston, Ontario. Sponsored by The Society for Environmental Toxicology and Chemistry.
3. The Effects of Chemical Contaminants on Marine Mammals. March 1994, Bergen Norway. Sponsored by The International Whaling Commission.
4. Cause of Reproductive Failure in North Atlantic Right Whales: New Avenues of Research April 26-28 Falmouth, Massachusetts.
5. Pellston Workshop: Uncertainty Analysis in Pesticide Risk Assessment. January 2002, Pensacola Florida. Sponsored by The Society for Environmental Toxicology and Chemistry.
6. NOAA Workshop "Emerging Contaminants of Concern". Charleston SC, May 11 – 12, 2005.

Publications:

Book Chapters:

1. Tillitt, D., Gilbertson, M., **Jones, P.**, Stromborg, K., Clark, J., Van den Berg, M., Giesy, J., and Olsson, M. (1998): Hazard assessment of organochlorine chemicals for terrestrial and aquatic animals. *IN: Ecotoxicological Risk Assessment of the Chlorinated Organic Chemicals*. Carey, J., Cook, P., Giesy, J., Hodson, P., Muir, D., Owens, W., Solomon, K. (Eds). SETAC Press, Pensacola FL, USA.
2. **Paul D. Jones**, Kurunthachalam Kannan, Alan L. Blankenship and John P. Giesy (2001): The use of TRVs to assess the risks persistent organochlorines pose to marine mammals. *In: Coastal and Estuarine Ecological Risk Assessment* Ed. M. C. Newman M. H. Roberts, Jr. and R. C. Hale. M. Newman. Lewis Publishers, Boca Raton, FL.
3. Bowerman, W.W., D.A. Best, E.D. Evans, S. Postupalsky, M.S. Martel, K. Kozié, R.L. Welch, R.H. Schell, D.F. Darling, J.C. Rogers, T.J. Kubiak, D.E. Tillitt, T.R. Schwartz, **P.D. Jones** and J.P. Giesy (1990): PCB Concentration in Plasma of Nestling Bald Eagles from the Great Lakes Basin, North America. pp. 203-206 in O. Hutzinger and H. Fiedler (Eds.). *Toxicology- Environment, Food, and Exposure Risk for Halogenated Hydrocarbons*. ECO-INFORMA Press, Bayreuth, Germany.
4. Giesy, J.P., R. Crawford, **P.D. Jones**, D.E. Tillitt, G.T. Ankley, J.L. Newsted, L.L. Williams, G. Walther and D.A. Verbrugge (1993): Uptake, Disposition and Effects of Dietary 2,3,7,8-Tetrachlorodibenzo-p-dioxin on the Survival, Growth, Reproduction, Histology, Biochemistry and Haematology of Rainbow Trout. pp. 235-238 in H. Fiedler, H. Frank, O. Hutzinger, W. Parzfall, A. Riss and S. Safe (Eds). *Organohalogen Compounds; Emission Control, Transport and Fate and Environmental Levels and Ecotoxicology*. Federal Environmental Agency, Austria.
5. Giesy, J.P., R. Crawford, P.D. Jones, D.E. Tillitt, G.T. Ankley, J.L. Newsted, L.L. Williams, G. Walter and D.A. Verbrugge (1994): Uptake, disposition and effects of dietary 2,3,7,8-tetrachlorodibenzo-p-dioxin on the survival, growth, reproduction, histology, biochemistry and haematology of rainbow trout. pp 64-68 in L. Norrgren (Ed.). *Report from the Uppsala Workshop on Reproduction Disturbances in Fish*, October 20-22, 1993, Uppsala Sweden.

Invited Book Reviews:

1. **Jones, P.D.** (1997): Book Reviews: Proceedings of the Exxon Valdez Oil Spill Symposium. *N.Z. J. Marine Freshwater Res.* (31) 2, 281-285.

Refereed Journal Articles:

1. Grigor, M.R., Thomas, C.R., **Jones, P.D.** and D.H. Buisson (1983): Occurrence of wax esters in the tissues of the Orange roughy (*Hoplostethus atlanticus*). *Lipids* 18, 585-588.
2. **Jones, P.D.**, Carne, A., Bass, N.M. and M.R. Grigor (1988): Isolation and characterization of fatty acid binding proteins from mammary tissue of lactating rats. *Biochem. J.* 251, 919-925.
3. Ankley, G.T., Tillitt, D.E., Giesy, J.P., **Jones, P.D.**, and Verbrugge, D.A. (1990): Bioassay-derived 2,3,7,8-tetrachlorodibenzo-p-dioxin equivalents (TCDD-EQ) in the flesh and eggs of lake Michigan Chinook Salmon and possible implications for reproduction. *Can. J. Fish. Aquat. Sci.* 48: 1685-1690.
4. Ankley, G.T., Lodge, K.B., Call, D.J., Balcer, M.D., Brooke, L.T., Cook, P.M., Kreis, R.M., Carlson, A.R., Johnson, R.D., Niemi, G.J., Hoke, R.A., West, C.W., Giesy, J.P., **Jones, P.D.**, and Fuying, Z.C. (1992): Integrated assessment of contaminated sediments in the lower Fox river and Green Bay, Wisconsin. *Ecotoxicol. Environ. Saf.* 23: 46-63.
5. Ludwig, J.P., Auman, H.J., Kurita, H. Ludwig, M.E., Campbell, L.M., Giesy, J.P., Tillitt, D.E., **Jones, P.D.**, Yamashita, N. Tanabe, S. and Tatsukawa, R. (1993): Caspian tern reproduction in the Saginaw bay ecosystem following a 100-year flood event. *J. Great Lakes Res.* 19: 96-108.
6. Ludwig, J.P., H. Kurita-Matsuba, H.J. Auman, M.E. Ludwig, C.L. Summer, J.P. Giesy, D.E. Tillitt and **P.D. Jones**. 1996. Deformities, PCBs and TCDD-Equivalents in Double-Crested Cormorants (*Phalacrocorax auritus*) and Caspian Terns (*Hydroprogne caspia*) of the Upper Great Lakes 1986-1991: Testing Cause-Effect Relationships. *J. Gt. Lakes. Res.* 22:172-197.
7. Ankley, G.T, Niemi, G.J., Lodge, K.B., Harris, H.J., Beaver, D.L., Tillitt, D.E., Schwartz, T.R., Giesy, J.P., **Jones, P.D.**, and Hagley, C. (1993): Bioaccumulation of planar polychlorinated biphenyls and 2,3,7,8-substituted polychlorinated dibenzofurans and dibenzo-p-dioxins by four species of birds nesting along the lower Fox river/Green Bay, Wisconsin. *Arch. Environ. Contamn. Toxicol.* 24: 332-344.
8. **Jones, P.D.**, Giesy, J.P., Newsted, J.L., Verbrugge, D.A., Beaver, D.L., Ankley, G.T., Tillitt, D.E., Lodge, K.B., and Niemi, G.J. (1993): 2,3,7,8,-tetrachlorodibenzo-p-dioxin equivalents in tissues of birds at Green Bay Wisconsin, USA. *Arch. Environ. Contamn. Toxicol.* 24: 345-354.
9. **Jones, P.D.**, Ankley, G.T., Best, D.A., Crawford, R., DeGalan, N., Giesy, J.P., Kubiak, T.J., Ludwig, J.P., Newsted, J.L., Tillitt, D.E., Verbrugge, D.A. (1993): Biomagnification of Bioassay derived 2,3,7,8,-tetrachlorodibenzo-p-dioxin equivalents. *Chemosphere* 26: 1203-1212.
10. **Jones, P.D.**, Giesy, J.P., Newsted, J.L., Verbrugge, D.A., Ludwig, J.P., Ludwig, M.E., Auman, H., Crawford, R., Tillitt, D.E., Kubiak, T.J., and Best D.A. (1993): Accumulation of 2,3,7,8-tetrachloro-p-dioxin equivalents by double-crested cormorant (*Phalacrocorax auritus*, Pelicaniformes) chicks in the North American Great Lakes. *Ecotoxicol. Environ. Saf.*, 27: 192-209.

11. Hoke, R.A., **Jones, P.D.**, Maccubbin, A.E., Zabik, M.J., and Giesy, J.P. (1994): Use of *in vitro* microbial assays of sediment extracts to detect and quantify contaminants with similar modes of action. *Chemosphere* 28: 169-181.
12. Giesy, J.P., Verbrugge, D.A., Othoudt, R.A., Bowerman, W.W., Mora, M.A., **Jones, P.D.**, Newsted, J.L., Vandervoort, C., Heaton, S.N., Aulerich, R.J., Bursian, S.J., Ludwig, J.P., Ludwig, M.E., Dawson, G.A., Kubiak, T.J., Best, D.A. and Tillitt, D.E. (1994): Contaminants in fishes from Great Lakes-influenced sections and above dams of three Michigan rivers. II: Implications for health of mink. *Arch. Environ. Contam. Toxicol.* 27: 213-223.
13. **Jones, P.D.**, Hannah, D.J., Buckland, S.J., Day, P.J., Leathem, S.V., Porter, L.J., Giesy, J.P., Auman, H.J., Ludwig, J.P., and Summer, C. (1994): PCBs and 2,3,7,8- substituted polychlorinated dibenzo-p-dioxins and dibenzofurans in albatross tissues from Midway Island in the central Pacific Ocean. *Oganohalogen Compounds* 20: 137-140.
14. **Jones P.D.**, D.J. Hannah, S.J. Buckland, T. van Maanen, S.V. Leathem, A. van Helden, and M. Donoghue. (1993). Planar chlorinated hydrocarbons in New Zealand marine mammals. *SETAC 93*, Houston TX, November 1993.
15. Newsted J.L., Giesy, J.P., Ankley, G.T., Tillitt, D.E., Crawford, R.A., Gooch, J.W., **Jones, P.D.**, and M.S. Denison (1996): Development of toxic equivalency factors for PCB congeners and the assessment of TCDD and PCB mixtures in rainbow trout. *Environ Toxicol. Chem.* 14: 861-871.
16. Larson, J.M., Karasov, W.H., Sileo, L., Stromborg, K.L., Hanbridge, B.A., Giesy, J.P., **Jones, P.D.**, Tillitt, D.E., and Verbrugge, D.A. (1996): Reproductive success, developmental anomalies, and environmental contaminants in double-crested cormorants (*Phalacrocorax auritus*). *Environ. Toxicol. Chem.* 15: 553-559.
17. Giesy, J. P., Bowerman, W., Mora, M. A., **Jones, P. D.**, Verbrugge, D. A., Othoudt, R. A., Newsted, J. L., Vandervoort, C., Summer, C., Aulerich, R. J., Bursian, S. J., Ludwig, J. P., Ludwig, M. E., Dawson, G. A., Kubiak, T. J., Best, D. A., and Tillitt, D. E. (1994). Contaminants in fishes from Great Lakes-influenced sections and above dams of three Michigan rivers: Implications for health of birds of prey. *Arch. Environ. Contam. Toxicol* 29: 309-321.
18. Giesy, J. P., Verbrugge, D. A., Othoudt, R. A., Bowerman, W. W., Mora, M. A., **Jones, P. D.**, Newsted, J. L., Vandervoort, C., Heaton, S. N., Aulerich, R. J., Bursian, S. J., Ludwig, J. P., Ludwig, M. E., Dawson, G. A., Kubiak, T. J., Best, D. A., and Tillitt, D. E. (1994). Contaminants in fishes from Great Lakes-influenced sections and above dams of three Michigan rivers. I: Concentrations of organochlorine insecticides, polychlorinated biphenyls, dioxin equivalents, and mercury. *Arch. Environ. Contam. Toxicol.* 27: 202-212.
19. Giesy, J.P., D.A. Verbrugge, R.A. Othout, W.W. Bowerman, M.A. Mora, **P.D. Jones**, J.L. Newsted, C. Vandervoort, S.N. Heaton, R.J. Aulerich, S.J. Bursian, J.P. Ludwig, G.A. Dawson, T.J. Kubiak, D.A. Best, and D.E. Tillitt. 1994. Contaminants in Fishes From Great Lakes-Influenced Sections and Above Dams on Three Michigan Rivers: II. Implications for the Health of Mink. *Arch. Environ. Toxicol. Chem.* 27:213-223.
20. Ludwig, J. P., Ludwig, M. E., Auman, H. J., **Jones, P. D.**, Giesy, J. P., and Verbrugge, D. A. (1991). Uptake of toxic chemicals from great lakes fish by double-crested cormorant and herring gull chicks. *Cause-Effects Linkages II*.

21. Tillitt, D. E., Giesy, J. P., **Jones, P. D.**, and Ankley, G. T. (1991). TCDD-EQ in colonial waterbird eggs from great lakes colonies (1986-1990) as measured by the H4IIE bioassay and chemical residue analysis. *Cause-Effects Linkages II*.
22. Ludwig, M. E., Ludwig, J. P., Auman, H. J., **Jones, P. D.**, Giesy, J. P., and Verbrugge, D. A. (1991). Differences in contaminant levels in great lakes vs. inland fish species. *Cause-Effects Linkages II*.
23. **Jones, P.D.**, Hannah, D.J., Buckland, S.J., Power, F.M., Gardner, A.R., and Randall, C.J. (1995): The induction of EROD activity in New Zealand freshwater fish species as an indicator of environmental contamination. *Aust. J. Ecotox.* 1: 99-105.
24. Heaton, S.N., Bursian, S.J., Giesy, J.P., Tillitt, D.E., Render, J.A., **Jones, P.D.**, Verbrugge, D.A., Kubiak, T.J., and Aulerich, R.J. (1996): Dietary exposure of mink to carp from Saginaw bay, Michigan: 2. Hematology and liver pathology. *Arch. Environ. Contam. Toxicol.* 29: 411-417.
25. Heaton, S.N., Bursian, S.J., Giesy, J.P., Tillitt, D.E., Render, J.A., **Jones, P.D.**, Verbrugge, D.A., Kubiak, T.J., and Aulerich, R.J. (1996): Dietary exposure of mink to carp from Saginaw bay. 1. Effects on reproduction and survival, and the potential risks to wild mink populations. *Arch. Environ. Contam. Toxicol.* 28: 334-343.
26. Tillitt, D.E., Gale, R.W., Meadows, J.C., Zajicek, J.L., Peterman, P.H., Heaton, S.N., **Jones, P.D.**, Bursian, S.J., Kubiak, T.J., Giesy, J.P., and Aulerich, R.J. (1996): Dietary exposure of mink to carp from Saginaw Bay. 3. Characterization of dietary exposure to planar chlorinated hydrocarbons, dioxin-equivalents, and biomagnification. *Environ. Sci. Technol.* 30: 283-291.
27. Summer, C. L., Giesy, J. P., Bursian, S. J., Render, J. A., Kubiak, T. J., **Jones, P. D.**, Verbrugge, D. A., Tillitt, D. E., and Aulerich, R. J. (1995). Feeding organochlorine-contaminated carp from Saginaw Bay, Lake Huron to White Leghorn laying hens. Part I - Effects on adult hens and reproductive productivity. *J. Toxicol. Environ. Health* 49: 389-407.
28. Summer, C. L., Giesy, J. P., Bursian, S. J., Render, J. A., Kubiak, T. J., **Jones, P. D.**, Verbrugge, D. A., Tillitt, D. E., and Aulerich, R. J. (1995). Effects induced by feeding organochlorine-contaminated carp (*Cyprinus carpio*) from Saginaw bay, Lake Huron to White Leghorn laying hens (*Gallus domesticus*): Part II - Embryotoxic and teratogenic effects. *J. Toxicol. Environ. Health* 49: 409-438.
29. Ludwig, J. P., Kurita-Matsuba, H., Auman, H. J., Ludwig, M. E., Summer, C. L., Giesy, J. P., Tillitt, D. E., and **Jones, P. D.** (1995). Deformities, PCBs and TCDD-equivalents in Double-Crested cormorants (*Phalacrocorax auritus*) and Caspian terns (*Hydroprogne caspia*) of the upper great lakes: Testing hypotheses of cause-effect relationships. *J. Great Lakes Res.* 22: 172-197.
30. Hannah, D.J., Till, D.G., Deverall, T. **Jones, P.D.** and J.M. Fry (1995): Extraction of lipid-soluble marine biotoxins. *J. A.O.A.C. Int.* 78: 480-483.
31. Hannah, D.J., Till, D.G., Benseman, B., **Jones, P.D.**, Pickston, L. And N. Walker (1993): Toxins and assay techniques. IN: Jasperse, J.A. ed. (1993): Marine toxins and New Zealand shellfish. Proceedings of a workshop on research issues, 10-11 June 1993. The Royal Society of New Zealand, *Miscellaneous series 24*., 28-30.

32. Hannah, D. J., **Jones, P. D.**, Buckland, S. J., van Maanen, T., Leathem, S. V., van Helden, A., and **Donoghue, M.** (1993). Planar chlorinated hydrocarbons in Southern Ocean marine mammals. *Organohalogen Compounds* 12: 333-335.
33. **Jones, P.D.**, Hannah, D.J., Buckland, S.J., Day, P.J., Leathem, S.V., Porter, L.J., Auman, H.J., Sanderson, J.T., Summer, C., Ludwig, J.P., Colborn, T.L. and J.P. Giesy (1996): Persistent Synthetic Chlorinated Hydrocarbons in Albatross Tissue Samples from Midway Atoll. *Environ. Toxicol. Chem* 15: 1793-1800.
34. **Jones, P.D.**, Hannah, D.J., Buckland, S.J., van Maanen, T., Leathem, S.V., Dawson, S.J., Slooten, E., van Helden, A. and Donoghue, M. (1999): Chlorinated hydrocarbons in New Zealand cetaceans. *J. Cetacean Res. Manage.* (Special Issue 1) 157-167.
35. **Jones, P. D.**, Leathem, S. V., Hannah, D. J., Day, P. J., Dye, E. A., Hoffman, K. A., Lister, A. R., Porter, L. J., van Maanen, T., Symons, R. K., van Helden, A., Buckland, S. J., Slooten, E., Dawson, S., and Donoghue, M. (1996). Biomagnification of PCBs and 2,3,7,8-substituted polychlorinated dibenzo-p-dioxins and dibenzofurans in New Zealand's Hector's dolphin (*Cephalorhynchus hectori*). *Organohalogen Compounds* 29: 108-113.
36. Lentz, M., Kennedy, P. and **Jones, P.D.** (1998): Review of Environmental Performance Indicators for Toxic Contaminants in the Environment – air, water and land. Ministry for the Environment Technical Paper 37, 105pp.
37. **Jones, P.D.** (1998): Environmental Oestrogens: Sources and Possible Health Effects in New Zealand. Ministry of Research Science and Technology. Report No. 78, ISSN 1171-0101. 15pp. Available at "<http://www.morst.govt.nz/pubs/report78/index.htm>"
38. Walter, G.L., **Jones, P.D.** and Giesy, J.P. (2000): Pathologic alterations in adult rainbow trout, *Oncorhynchus mykiss*, exposed to dietary 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Aquatic Toxicology* 50:287-299.
39. Kannan, K., Blankenship, A.L., **Jones, P.D.**, Giesy, J.P. (2000): Toxicity reference values for the toxic effects of polychlorinated biphenyls to aquatic mammals. *Human Ecol. Risk Assess.* 6: 181-201.
40. Giesy, J.P., Kannan, K., Blankenship, A.L., **Jones, P.D.**, Hilscherova, K. (2000): Dioxin-like and non-dioxin-like toxic effects of polychlorinated biphenyls (PCBs): Implications for risk assessment. *Cent. Euro. J. Pub. Health* 17: 43-45.
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