

Charles B. Salocks, Ph.D., D.A.B.T.
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Professional Experience

Staff Toxicologist, Integrated Risk Assessment Section (IRAS)

Office of Environmental Health Hazard Assessment (OEHHA)

California Environmental Protection Agency

3/01-present

Co-authored guidance document describing methodology, assumptions and equations for multimedia human health risk assessments. Presently developing an information resource manual for assessment and clean up of chemical contamination at residences that were used for clandestine manufacture of methamphetamine.

Staff Toxicologist, Human and Ecological Risk Division (HERD)

Department of Toxic Substances Control (DTSC)

California Environmental Protection Agency

6/89 – 2/01

Reviewed site characterization reports and human health risk assessments for hazardous waste sites and facilities that treat, store and dispose of hazardous wastes. From 5/92 through 1/95, held position of acting Senior Toxicologist, supervising 4-5 staff, and acted as liaison between HERD and DTSC's Region 1 Office. In cooperation with U.S EPA, organized and taught twelve 3-day "Risk and Decision Making" workshops for federal, state, and local government environmental health staff. Participated in development and implementation of the California Railroad Accident Prevention and Immediate Deployment (RAPID) plan. Evaluated health risks to children attending schools located near sources of hazardous chemicals.

Staff Toxicologist, IBM Corporation

9/84 - 6/89

Evaluated the toxicity of chemicals used in the manufacture of new and existing products. Recommended appropriate toxicity and/or mutagenicity testing when existing toxicity database was judged incomplete. Reviewed contract laboratory work and summarized results for management. In cooperation with Eastman Kodak Company, designed and monitored a 90-day bioassay of a ketone solvent for *n*-hexane-type neurotoxicity. Developed technical documentation for establishment of corporate-wide occupational exposure standard for cobalt. Advised management on environmental issues and development of environmental policies. Evaluated the toxicity and regulatory status of 17 solvents in support of a comprehensive plan for remediation of ground water contamination at IBM's San Jose manufacturing facility. Acted as liaison with consultants in environmental toxicology. Established ongoing dialog with state and federal regulatory officials to interpret and anticipate changes in regulatory policy. Conducted research to elucidate biochemical mechanisms of toxicity. Participated in a World Health Organization study to evaluate the mutagenicity of 2- and 4-acetylaminofluorene in the "in vivo/in vitro" hepatocyte DNA repair assay.

Post-Doctoral Scientist, IBM Corporation

8/82 - 9/84

Evaluated the genotoxicity of chemicals in the Ames Salmonella mutation assay and the Chinese hamster ovary cell/sister chromatid exchange (CHO/SCE) assay. Conducted studies to compare different end-points for cytotoxicity in primary cultures of hepatocytes. Provided technical expertise in chemical carcinogenesis, xenobiotic metabolism, and biochemical mechanisms of toxicity.

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**Graduate Student in Pharmacology and
Environmental Toxicology, UC Davis**

9/76 - 8/82

Designed and conducted experiments demonstrating that feeding rats the food antioxidant butylated hydroxytoluene (BHT) conferred substantial protection against the acute hepatotoxicity and genotoxicity of aflatoxin B₁. Characterized changes in the metabolic disposition and covalent binding of aflatoxin B₁ that were the basis of these effects.

**Research Associate,
Scripps Clinic and Research Foundation**

4/73 - 7/76

Responsible for radioimmunoassay of serum and pituitary samples for prolactin and growth hormone. Assisted in the design, coordination and implementation of studies designed to examine (1) the influence of growth hormone and prolactin on the incidence and rate of growth of mammary tumors in mice, (2) the pharmacokinetics of prolactin release and metabolism, (3) the uptake and tissue disposition of radio-labeled prolactin and growth hormone, and (4) the action of the hypothalamic factor somatostatin on circulating levels of growth hormone in mice.

Academic Background

Ph.D., Pharmacology and Environmental Toxicology, UC Davis, 1982

University of California Regents' Fellowship

Stauffer Chemical Company Fellowship

NIEHS Traineeship in Environmental Toxicology

B.A., Psychology (Biochemistry minor), UC San Diego, 1972

Graduation with High Honors

Scientific Affiliations

Diplomate, American Board of Toxicology, 1986; recertified in 1991, 1996 and 2001

Member, Society of Toxicology

Member, Genetic & Environmental Toxicology Association of Northern California

(member since 1979; elected to Executive Board Steering Committee in

1989; elected President in 1991)

Scientific Presentations and Lectures

"Assessing the Health Risks for Humans Exposed to Arsenic-Containing Mine Tailings"
Symposium on Sources and Toxicity of Mining Wastes. Northern California Society of
Environmental Toxicology and Chemistry, Sixth Annual Meeting, June 24, 1996.

Lecturer, Environmental Toxicology 146 ("Exposure Dose Assessment"), UC Davis, Spring
Quarter, 1996

Other Professional Experience

Instructor, "Fundamentals of Precious Metalsmithing," UC Davis Craft Center

1993 - present

Charles B. Salocks, Ph.D., D.A.B.T.

Publications

Sinha, Y.N., Salocks, C.B., Lewis, U.J., and VanderLaan, W.P. Depletion of pituitary GH in response to nursing: An artifact of extraction procedure. Program, 56th Annual Meeting, Endocrine Soc., p. A-302, 1974 (Abstract).

Sinha, Y.N., Salocks, C.B., and VanderLaan, W.P. Basal levels of prolactin and GH in genetically obese mice. Program, 56th Annual Meeting, Endocrine Soc., p. A-302, 1974 (Abstract).

Sinha, Y.N., Salocks, C.B., Lewis, U.J., and VanderLaan, W.P. Influence of nursing on the release of prolactin and GH in mice with high and low incidence of mammary tumors. Endocrinology 95: 947-954, 1974.

Sinha, Y.N., Salocks, C.B., and VanderLaan, W.P. Abnormal prolactin and GH secretion in obese mice. Clinical Res. 23: A-129, 1975 (Abstract).

Sinha, Y.N., Salocks, C.B., and VanderLaan, W.P. Stimulatory test for PRL release in mice: Pattern characteristic of the incidence of mammary tumors. Program, 57th Annual Meeting, Endocrine Soc., p. 336, 1975 (Abstract).

Sinha, Y.N., Salocks, C.B., and VanderLaan, W.P. Pituitary and serum concentrations of prolactin and GH in Snell dwarf mice. Proc. Soc. Exptl. Biol. Med. 150: 207-210, 1975.

Sinha, Y.N., Salocks, C.B., and VanderLaan, W.P. Prolactin and growth hormone levels in different inbred strains of mice: Pattern in association with estrous cycle, time of day, and perphenazine stimulation. Endocrinology 97: 1112-1122, 1975.

Sinha, Y.N., Salocks, C.B., and VanderLaan, W.P. Prolactin and growth hormone secretion in chemically-induced and genetically obese mice. Endocrinology 97: 1386-1393, 1975.

Sinha, Y.N., Salocks, C.B., and VanderLaan, W.P. A comparison of the effects of bromocryptine and lergotriple mesylate on prolactin and growth hormone secretion in mice. Hormone Metabol. Res. 8: 332-336, 1976.

Sinha, Y.N., Salocks, C.B., and VanderLaan, W.P. Circulating levels of prolactin and growth hormone and natural incidence of mammary tumors in mice. J. Toxicol. Environ. Health, Suppl. 1: 131-160, 1976.

Sinha, Y.N., Salocks, C.B., and VanderLaan, W.P. Circulating levels of prolactin and growth hormone and natural incidence of mammary tumors in mice. *In* M. Norvell and T. Shellenberger (Eds.): Hormone Research II. Hemisphere Publ. Corp., Washington, 1976.

Sinha, Y.N., Salocks, C.B., and VanderLaan, W.P. Control of prolactin and growth hormone secretion in mice by obesity. Endocrinology 99: 881-886, 1976.

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Publications (continued)

Sinha, Y.N., Thomas, J.W., Salocks, C.B., and VanderLaan, W.P. Influence of high fat diet on prolactin and growth hormone secretion in mice. Program, 58th Annual Meeting, Endocrine Soc., p. 226, 1976 (Abstract).

Sinha, Y.N., Salocks, C.B., and VanderLaan, W.P. Prolactin secretion patterns in mice with high and low incidence of mammary tumors: Reversal by foster nursing. Fifth Intl. Congress of Endocrinology, Abstracts of Short Commun. and Poster Present., p. 140, 1976 (Abstract).

Sinha, Y.N., Salocks, C.B., Wickes, M.A., and VanderLaan, W.P. Serum and pituitary concentrations of prolactin and growth hormone in mice during a twenty-four hour period. Endocrinology **100**: 786-791, 1977.

Sinha, Y.N., Thomas, J.W., Salocks, C.B., Wickes, M.A., and VanderLaan, W.P. Prolactin and growth hormone secretion in diet-induced obesity in mice. Hormone Metab. Res. **9**: 277-282, 1977.

Sinha, Y.N., Salocks, C.B., VanderLaan, W.P., and Vlahakis, G. Evidence for an influence of mammary tumor virus on prolactin secretion in the mouse. J. Endocrinology **74**: 383-392, 1977.

Sinha, Y.N., and Salocks, C.B. Inhibition of prolactin release by high doses of estrogen. Program, 59th Annual Meeting, Endocrine Soc., p. 224, 1977 (Abstract).

Sinha, Y.N., Wickes, M.A., Salocks, C.B., VanderLaan, W.P. Gonadal regulation of prolactin and growth hormone secretion in the mouse. Biol. Reprod. **21**: 473-481, 1979.

Salocks, C.B., Hsieh, D.P.H., and Byard, J.L. Butylated hydroxytoluene pretreatment reduces cytotoxicity and covalent binding of aflatoxin B₁ in primary hepatocyte cultures. The Toxicologist **1**: 108, 1981 (Abstract).

Salocks, C.B., Hsieh, D.P.H., and Byard, J.L. Butylated hydroxytoluene pretreatment protects against cytotoxicity and reduces covalent binding of aflatoxin B₁ in primary hepatocyte cultures. Toxicol. Appl. Pharmacol. **59**: 331-345, 1981.

Knadle, S.A., Salocks, C.B., Nakashima, J., and Byard, J.L. Comparative rates of benzene metabolism in primary hepatocyte cultures. The Toxicologist **2**: 25, 1982 (Abstract).

Salocks, C.B., Hsieh, D.P.H., and Byard, J.L. Butylated hydroxytoluene pretreatment selectively reduces covalent binding of aflatoxin B₁ to DNA and RNA in primary cultures of rat hepatocytes. Proc. Am. Assoc. Cancer Res. **24**: 87, 1983 (Abstract).

Salocks, C.B., Ma, J.J., and Joachim, F.J. Comparison of lactate dehydrogenase release and malonaldehyde production for assessment of cytotoxicity in primary cultures of rat hepatocytes. The Toxicologist **4**: 103, 1984 (Abstract).

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Publications (continued)

Salocks, C.B., Hsieh, D.P.H., and Byard, J.L. Effects of butylated hydroxytoluene pretreatment on the metabolism of aflatoxin B₁ in primary cultures of adult rat hepatocytes: Selective reduction of covalent binding to DNA and RNA. Toxicol. Appl. Pharmacol. **76**: 498-509, 1984.

Salocks, C.B., and Decad, G.M. Induction of DNA repair and replication in rat hepatocytes after in vivo treatment with 2-acetylaminofluorene and 4-acetylaminofluorene. The Toxicologist **6**: 224, 1986 (Abstract).

Salocks, C.B., and Decad, G.M. Induction of unscheduled DNA synthesis and DNA replication in rat hepatocytes following in vivo administration of 2-acetylaminofluorene and 4-acetylaminofluorene. In J. Ashby, F.J. de Serres, M.D. Shelby, B.H. Margolin, M. Ishidate, Jr., and G.C. Becking (Eds.): Evaluation of Short-Term Tests for Carcinogens. Report of the International Programme on Chemical Safety's Collaborative Study on In Vivo Assays. Cambridge University Press, Cambridge, 1988 (pp. 1.372-1.377).

Salocks, C.B., Topping, D.C., Vlaovic, M.S., Burrell, A.D., and O'Donoghue, J. Subchronic neurotoxicity of 5-methyl-3-heptanone in rats: Correlation of behavioral symptoms and neuropathology. The Toxicologist **10**: 121, 1990 (Abstract).

Klein, A.K., Oudiz, D., Butler, E., Salocks, C.B., Carlisle, J., Becker, R., and Wong, J. Proposed California regulations for multimedia risk assessment for hazardous waste sites and hazardous waste treatment, storage and disposal facilities. The Toxicologist **12**: 301, 1992 (Abstract).

Salocks, C.B., Hathaway, T.R., Ziarkowski, D., and Walker, W.J. Physical characterization, solubility, and potential bioavailability of arsenic in tailings from a former gold mine. The Toxicologist **16**: 48, 1996 (Abstract).

Harnly, M., Siegel, D., Neutra, R., Parker, T., Salocks, C., and Kreutzer, R. Emergency response to chemical releases: Exposure assessment. Presentation at the American Public Health Association 1995 Annual Meeting. (Abstract).

Salocks, C.B., Wade, M.J., Oudiz, D.J., and Davis, B.K. A decision matrix for assessing health risks associated with exposure to contaminated building surfaces. The Toxicologist **17**: 284, 1997 (Abstract).

Golub, M.S., Keen, C.L., Salocks, C.B., and Hathaway, T.R. Arsenic tissue concentrations of immature mice after oral exposure to gold mine tailings. Third International Conference on Arsenic Exposure and Health Effects, Society of Environmental Geochemistry and Health, 1998 (Abstract).

Golub, M.S., Keen, C.L., Commisso, J., Salocks, C.B., and Hathaway, T.R. Arsenic tissue concentrations of immature mice one hour after oral exposure to gold mine tailings. Environmental Geochemistry and Health **486**: 1-11, 1999.