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### **Summary of qualifications and experiences**

I am a pathologist (Ph.D.) and a dual board certified toxicologist (DABT and DABVT). I obtained my Ph.D. in comparative pathology from the University of California Davis. I have over 25 years of experience in conducting biomedical research (pathology, toxicology, biochemistry, and immunology), teaching, and serving as an expert witness in many medical-legal cases. I have published more than 45 articles in the fields of toxicology and pathology in peer-reviewed medical and scientific journals.

I have evaluated many cases of babies who have suffered from adverse reactions to medications and vaccines and infections. In these cases, their caretakers were falsely accused of injuring them by shaking (Shaken Baby Syndrome). In addition, I have evaluated cases of misdiagnosed cases of children and adults who have suffered from adverse reactions to medications and vaccines as well as workers who were exposed to chemicals at the workplace.

**Personal information:** United States Citizen

### **I. Educations and experiences in human pathology, toxicology, biochemistry, and immunology**

#### **I-A. Education:**

- Ph.D. 1989 Comparative Pathology. University of California Davis  
Davis, California.  
(Subjects of study: Human pathology; medical immunology; medical  
biochemistry; analytical toxicology; environmental toxicology;  
experimental toxicology.
- DABT 1994 Diplomate, American Board of Toxicology  
(Human, experimental, regulatory, and environmental toxicology)

#### **I-B. Professional experiences:**

- 1997-Present Toxicologist and Pathologist  
Toxi-Health International  
150 Bloom Dr., Dixon, CA 95620
- 1996-1997 Toxicology Information Specialist and Outreach  
Coordinator, Center for Environmental Health Sciences  
University of California Davis, Davis, CA 95616

#### **I-C. Publications in human pathology and toxicology dealing with medical-legal cases:**

- [1] Al-Bayati MA. Analysis of Causes That Led to Baby Lucas Alejandro Mullenax-Mendez's Cardiac Arrest and Death in August-September of 2002. Medical Veritas 2004;1(1): 45-63.
- [2] Al-Bayati MA. Analysis of causes that led to Toddler Alexa Shearer's cardiac arrest and death in November 1999. Medical Veritas 2004;1(1):86-117.
- [3] Al-Bayati MA. Shaken baby syndrome or medical malpractice? Medical Veritas 2004;1(1):78-90.
- [4] Al-Bayati MA. Severe hair loss induced by vaccines and reversed by the treatment with zinc. Medical Veritas 2004; 1(2):159-62.
- [5] Al-Bayati MA. Analysis of causes that led to Baby Robert's respiratory arrest and death in August of 2000. Medical Veritas 2004; 1(2):179-200.
- [6] Al-Bayati MA. Analysis of Causes That Led to Baby Alan Ream Yurko's Cardiac Arrest and Death in November of 1997. Medical Veritas, 2004;1(2):201-31.
- [7] Al-Bayati MA. Analysis of Causes That Led to the Bleedings in the subdural spaces and other tissues in Baby Alan Ream Yurko's case. Medical Veritas 2004;1(2): 231-8.
- [8] Al-Bayati MA. Assessment of adverse reactions to vaccines given to Greyson and Gwyneth with recommendations for clinical tests. Medical Veritas 2005;2(1):325-30.
- [9] Al-Bayati MA. Did Bryant Arroyo kill Baby Jordan Anthony Shenk, as alleged by the Commonwealth of Pennsylvania? January 7, 2005. Lancaster County, PA Medical Veritas 2005;2(1): 367-82.

- [10] Al-Bayati MA. Analysis of causes that led to Eliza Jane Scovill's cardiac arrest and death. *Medical Veritas* 2005;2(2):567–81.
- [11] Al-Bayati MA. Comparative analysis of the autopsy reports of Destiny Jacobo and Eliza Jane. *Medical Veritas* 2006;3(1):1–5.
- [12] Al-Bayati MA. Analysis of causes that led to bleeding, cardiac arrest, and death in the case of baby Nadine. *Medical Veritas* 2006;3(2):997–1012.
- [13] Al-Bayati MA. Analysis of Causes that Led to Subdural Bleeding and Rib Fractures in the case of Baby Patrick Gorman. *Medical Veritas* 2006;3(2):1019–40.
- [14] Al-Bayati MA. Histopathological features of Eliza Jane Scovill's and Destiny Jacobo's lungs with analysis of the causes of death in both cases. *Medical Veritas* 2006;3 (2):1041–8.
- [15] Al-Bayati MA. A case of medically unjustified treatment with multiple mega doses of vitamin C with thyroid hormones that caused serious adverse reactions in a woman. *Medical Veritas* 2007;4(1):1235–43.
- [16] Al-Bayati MA. A missed case of poisoning with arsenic. *Medical Veritas* 2007;4(1):1244–50.
- [17] Al-Bayati MA. Analysis of causes that led to the development of vitiligo in Jeanett's case with recommendations for clinical tests and treatments. *Medical Veritas* 2007;4(1):1251–62.

## **II. Patents**

- [1] U.S. Patent Number: 5,686,237  
 Patent Date: November 11, 1997  
 use of biomarkers in saliva to evaluate the toxicity of agents and the functions of tissues in both biomedical and environmental applications.
- [2] U.S. Patent Number: 6,537,744  
 Patent Date: March 25, 2003  
 use of biomarkers in saliva to evaluate the toxicity of agents and the functions of tissues in both biomedical and environmental applications.

## **III. Research and teaching experiences**

### **III-A. Education:**

DABVT	1996	Diplomate, American Board of Veterinary Toxicology
MVSc.	1978	University of Cairo, Egypt (Veterinary pathology)
BVMS	1975	University of Baghdad, Iraq (Veterinary sciences)

### **III-B. Professional Experience:**

March, 2000- June 2003	Conducting biomedical research (contract) Variable times (40-89%) Department of Molecular Biosciences University of California Davis, Davis, CA 95616
1991-1996	Assistant Research Toxicologist (Faculty position). Institute of Toxicology & Environmental Health University of California Davis, Davis, CA 95616
1991-1992	Served as a faculty advisor for 72 undergraduate students of various academic disciplines. (5-10 hours per week) University of California Davis, Davis, CA 95616
1986-1990	Staff Research Associate IV, Toxicologist Institute of Toxicology & Environmental Health University of California Davis, Davis, CA 95616
1979-1986	Staff Research Associate II, Toxicologist Institute of Toxicology and Environmental Health University of California Davis, Davis, CA 95616

#### IV. Published articles and reports in the fields of toxicology and pathology

- [18] Wei CI, Al-Bayati MA, Culbertson MR, Rosenblatt LS, Hansen LD. Acute toxicity of ammonium metavanadate in mice. *Journal of Toxicology and Environmental Health* 1982;10:673–87.
- [19] Raabe OG, Al-Bayati MA, Gielow F, Schreider JP, Parks NJ. Studies of the distribution in beagles of Pu-241 after intratracheal instillation of ultrafine insoluble particles. *Health Physics* 1984;47:210.
- [20] Knaak JB, Schreider J, Raabe OG, Al-Bayati MA, Wilson BW. The percutaneous absorption of oxidazan in the adult female rat. In: *Pesticide Science and Biotechnology*. Greenhalgn R, Roberts TR (eds.), Blackwell Scientific Publications, 1987:545–8.
- [21] Knaak JB, Al-Bayati MA, Gielow F, Raabe OG. Safety related to exposure: Dermal dose-red cell cholinesterase response curves for Ethoprop and Mocap 6 EC. *Bulletin of Environmental Contamination Toxicology* 1987;38:834–9, Springer-Verlag New York Inc.
- [22] Raabe OG, Al-Bayati MA. Gastrointestinal-tract Uptake of Benzene in drinking water in rats. Report submitted to the University of California Toxic Substance and Teaching Program, Davis, CA. 1987.
- [23] Raabe OG, Al-Bayati MA, Gielow F, Uyeminami D. Inhalation Uptake of xenobiotics vapors by people. Report submitted to Air Resources Board, Sacramento CA, March 1988.
- [24] Raabe OG, Knaak JB, Al-Bayati MA, Uyeminami D, Gielow F. Development of multiple route compound pharmacokinetic models: development of a physiological pharmacokinetic model for an organophosphate: isofenphos. Submitted to Exposure Assessment group, USEPA, Washington, DC. Sept. 20, 1988.
- [25] Raabe OG, Al-Bayati MA, Gielow F, Teague S, Uyeminami D. Inhalation Uptake of xenobiotic vapors by people. Report submitted to the Biological effects Research Section, California Air Resources Board, Sacramento, California (CARB Contract NO. A5-155-33). March 1988.
- [26] Raabe OG, Al-Bayati MA, Teague S, Rasolt A. Regional deposition of inhaled monodisperse coarse and fine particles in small laboratory animals. *Annals of Occupational Hygiene* 1988;32(1):53–63.
- [27] Knaak JB, Al-Bayati MA, Raabe OG, Wiedmann JL, Pensyl JW, Ross JH, Leber AP, Jones P. Mixer-loader-applicator exposure and percutaneous absorption studies involving EPTC herbicide. Ch. 22. In: *Biological Monitoring for Pesticide Exposure: Measurement, Estimation, and Risk Reduction*, Wang, RGM, Franklin CA, Honeycut RC, Reinert JC (eds.), American Chemical Society, Washington, DC., 1989:288–303.
- [28] Al-Bayati MA, Giri SN, Raabe OG, Rosenblatt LS, Shifrine M. Time and dose-response study of the effects of vanadate on rats: Morphological and Biochemical changes in organs. *Journal of Environmental Pathology, Toxicology and Oncology* 1989;9(5):435–55.
- [29] Al-Bayati MA, Giri SN, Raabe OG. Time and dose-response study of the effects of vanadate on rats: changes in blood cells and serum elements. *Journal of Environmental Pathology, Toxicology, and Oncology* 1990;10(4-5):206–13.
- [30] Knaak JB, Al-Bayati MA, Raabe OG, Blancato JN. In vivo percutaneous absorption studies in rat: Pharmacokinetics and modeling of isofenphos absorption. In: *Prediction of Percutaneous Penetration: Methods, Measurements, and Modelling*. Scott RC. (ed), IBC Technical, England, 1990.
- [31] Al-Bayati MA, Raabe OG, Giri SN, Knaak JB. Distribution of vanadate in rat following subcutaneous and oral exposure. *Journal of the American College of Toxicology* 1991;10(2):233–41.
- [32] Al-Bayati MA, Culbertson MR, Schreider JP, Rosenblatt LS, Raabe OG. The lymphotoxic action of vanadate. *Journal of Environmental Pathology, Toxicology, and Oncology* 1992;Vol. II, No.2.
- [33] Knaak JB, Al-Bayati MA, Raabe OG. Physiologically-based pharmacokinetics modeling to predict tissue dose and cholinesterase inhibition in workers exposed to organophosphorus and carbamate pesticides. In: *Health Risk Assessment Through Dermal and Inhalation Exposure and Absorption of Toxicant*. Wang GM, Knaak JB, Maibach HI (eds.). CRC Press, Boca Raton, FL, 1992.
- [34] Al-Bayati MA, Raabe OG, Teague SV. Effect of inhaled dimethylselenide in the Fischer 344 male rat. *Journal of Toxicology and Environmental Health* 37:549–57.
- [35] Raabe OG, Al-Bayati MA, Shulec PD, Gielow F, Uyeminami D, Shimasaki N. Dermal Absorption of Methanol and methanol/Gasoline Mixtures. Report submitted to the Biological effects Research Section, California Air Resources Board, Sacramento, California (CARB Contract NO. A933-186). December 1992.
- [36] Raabe OG, Al-Bayati MA, Shulec PD, Gielow F, Uyeminami D, Shimasaki N. Dermal absorption of methanol and methanol/gasoline mixtures. Report submitted to Air Resources Board, Sacramento CA, Dec. 1992.
- [37] Knaak JB, Al-Bayati MA, Raabe OG, Blancato JN. Development of in vitro  $V_{max}$  and  $K_m$  values for the metabolism of isofenphos by P-450 liver enzymes in animals and human. *Toxicology and Applied Pharmacology* 1993;120:106–13.
- [38] Gospe SM, Al-Bayati MA. Comparison of oral and inhalation exposures to toluene. *American College of Toxicology* 1993;13(1):21–32.
- [39] Raabe OG, Wilson DW, Al-Bayati MA, Hornof WJ, Rosenblatt LS. Biological effects of inhaled pollutant aerosols. *Ann. Occup. Hyg.* 1994;38(Suppl. 1):323–30.
- [40] Knaak JB, Al-Bayati MA, Raabe OG, Blancato JN. Prediction of anticholinesterase activity and urinary metabolites of isofenphos: Use of a percutaneous physiologically based pharmacokinetic-physiologically based pharmacodynamic model. In: *Biomarkers of Human Exposure to Pesticides*, Ch. 17, Saleh MA, Blancato JN, Nauman, CH (eds.). American Chemical Society Symposium Series 542, Washington, D.C.1994.
- [41] Knaak JB, Al-Bayati MA, Raabe OG. Development of partition coefficients,  $V_{max}$  and  $K_m$  values, and allometric relationships. *Toxicology letters* 1995;79:87–98.
- [42] Knaak JB, Al-Bayati MA, Raabe OG, Blancato JN. Use of a multiple pathway and multiroute PBPK model for predicting OP toxicity: In American Chemical Society Symposium: Field Application of Biomarkers for Agrochemicals. April 3-7, Anaheim, CA. 1995.
- [43] Knaak JB, Al-Bayati MA, Raabe OG, Blancato JN. Use of a multiple pathway and multiroute PBPK model for predicting OP toxicity: Field Application of Biomarkers for Agrochemicals. In American Chemical Society Symposium Series 643, Washington, D.C., 1996:206–28.
- [44] Raabe OG, Al-Bayati MA. Distribution and retention of inhaled vanadium on inert airborne particles. *Ann. Occup. Hyg.* 1996;41(suppl.1).
- [45] Al-Bayati MA, Xie Y, Mohr FC, Margolin SB, Giri SN. Effect of pirfenidone against vanadate-induced kidney fibrosis in rats. *Biochemical Pharmacology* 2002 Aug. 1;64(3):517–22.
- [46] Giri SN, Al-Bayati MA, Du X, Schelegle E, Mohr FC, Margolin SB. Amelioration of doxorubicin-induced cardiac and renal toxicity by pirfenidone in rats. *Cancer Chemother Pharmacol.* 2004 Feb.;53(2):141–50.
- [47] Al-Bayati MA. Examining the causes of AIDS. *Medical Veritas* 2006;3(1):900–13.

#### V. Previous research grants and contracts at UCD

I served as principal investigator (PI), co-principal investigator (Co-PI), and investigator in many funded research grants and contracts. The following is a list of previously funded projects.

- Project Title: Quantitative Evaluation of Serum Chemistry, Hematology and Pathological Parameters in Dog, Sheep, and Pig Exposed To Whole Body Irradiation.

Agency: AMGEN Pharmaceutical Inc. Thousand Oaks, CA 91320

Duration: 30 months (1993-1995)

Amount: \$254,778

Functions: PI, toxicologist, and pathologist

- Project Title: Improved Models of Risk for Exposure to Organic Toxicant and Carcinogens.  
Agency: United States Environmental Protection Agency  
Duration: 48 months (1990-1995)  
Amount: \$980,000  
Functions: Co-PI, toxicologist, and pathologist
- Project Title: Improved Models of Risk for Exposure to Organic Toxicant.  
Agency: United States Environmental Protection Agency  
Duration: 36 months (1987-1990)  
Amount: \$240,000  
Functions: Co-PI, toxicologist, and pathologist
- Project Title: Dermal Absorption of Methanol and Gasoline/Methanol Mixtures.  
Agency: California Air Resources Board  
Duration: 18 months (7/90-12/91)  
Amount: \$84,000  
Functions: Co-PI, toxicologist, and pathologist
- Project Title: Toxicity of the Inhaled Dimethylselenide in Adult Rat.  
Agency: University of California, Riverside  
Duration: 12 months (07/87-07/88)  
Amount: \$70,000  
Functions: Co-PI, toxicologist, and pathologist
- Project Title: Inhalation Uptake of Xenobiotic Vapors in People.  
Agency: California Air Resources Board; Contract No. A5-155-33  
Duration: 18 months (1986-1987)  
Amount: \$150,000  
Functions: Investigator, toxicologist, and pathologist
- Project Title: Effects of Airborne Particulate Matter.  
Agency: California Air Resources Board; Contract No. A4-133-33  
Duration: 24 months (1985-1987)  
Amount: \$250,000  
Functions: Investigator, toxicologist, and pathologist
- Project Title: Gastrointestinal Tract Uptake of Benzene in Drinking Water, and Consequent Tissue and Fetal Retention.  
Agency: Toxic Substance Research and Teaching Program, University of California, Davis  
Function: 12 months (1986-1987)  
Amount: \$50,000  
Functions: Co-PI, toxicologist, and pathologist
- Project Title: Inhalation Uptake of Xenobiotic Vapors at Trace Levels.  
Agency: California Air Resources Board; Contract No. A3-132-33  
Duration: 18 months (1984-1986)  
Amount: \$140,000  
Functions: Investigator, toxicologist, and pathologist
- Project Title: Toxicity and Toxicokinetics of Vanadium in Rodents.  
Agency: United States Department of Energy  
Duration: 72 months (1981-1987)  
Functions: Co-PI, toxicologist, and pathologist
- Project Title: Studies of Biological Behavior of Pu-241 and Am-241 in Rat, Dog, and Primate.  
Agency: United States Department of Energy  
Duration: 72 months (1980-1986)  
Functions: Investigator, toxicologist, and pathologist
- Project Title: Respiratory Tract Deposition of Inhaled Aerosols in Small Rodents.  
Agency: United States Environmental Protection Agency  
Duration: 60 months (1980-1985)  
Amount: \$500,000  
Functions: Investigator, toxicologist, and pathologist