

David R. Preston, Ph.D., J.D.
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SUMMARY: Detail-oriented Intellectual Property attorney with more than 20 years of relevant domestic and foreign experience including patents, trademarks, copyrights, trade secrets and research and development agreements. Skills include legal, technical, organizational, personal interaction and training. Experience with the Federal Government, the Federal Courts, biotechnology law firms and biotechnology companies.

MARTINDALE-HUBBELL PEER REVIEW RATING

NOTABLE, Very High Rating in Both Legal Ability & Ethical Standards

EMPLOYMENT HISTORY

David R. Preston, Ph.D., J.D., A Professional Corporation, San Diego, CA.

2018 to Present

Intellectual Property Counsel

Reflects a name change of David R. Preston & Associates, A.P.C.

Liquid Wood, LLC, San Diego, CA

2020 to Present

Managing Partner, Co-Founder, Co-Inventor

Liquid Wood, LLC, develops and commercializes patent pending technologies relating to extracts of natural products such as wood for flavorings for food or drink. Our flagship technologies relate to extracts of barrel wood to add to beer to have an extensive and diverse flavor pallet to produce a beer product that has characteristics of barrel aging. We avoid the common pitfalls of traditional wood barrel aging of beer by removing the need for barrels and the accompanying barrel of problems, notably cost and time as our technologies are a rapid and less expensive alternative. We have produced extracts of fruits, spices, cannabis, and other natural products. The extracts are water based and TTB and FDA compliant. We are currently looking for partners, collaborators, licensees, and the like to further commercialize the technology.

DAVID R. PRESTON & ASSOCIATES, A PROFESSIONAL CORPORATION, SAN DIEGO, CA.

1999 to 2018

Intellectual Property Counsel

Addressing the intellectual property needs of the biotechnology, chemical and mechanical communities in a variety of roles, functions, and tasks in intellectual property law.

AURORA BIOSCIENCES CORPORATION, SAN DIEGO, CA.

1997 to 1999

Intellectual Property Counsel

CAMPBELL & FLORES, SAN DIEGO, CA.

1996 to 1997

Associate Intellectual Property Counsel

U. S. COURT OF APPEALS FOR THE FEDERAL CIRCUIT

1995

Intern to The Honorable Randall Rader.

U.S. DISTRICT COURT FOR THE EASTERN DISTRICT OF NEW YORK
1995

Intern to The Honorable Randall Rader, sitting by designation.

**OFFICE OF TECHNOLOGY DEVELOPMENT, NATIONAL CANCER INSTITUTE, NATIONAL INSTITUTES OF HEALTH,
BETHESDA, MD**

1994 to 1996

Technology Development Specialist

UNITED STATES PATENT AND TRADEMARK OFFICE

1990 to 1994

Patent Examiner

U.S. ARMY BIOMEDICAL RESEARCH AND DEVELOPMENT LABORATORIES, FORT DETRICK, MARYLAND

1989 to 1990

Research Scientist

UNIVERSITY OF FLORIDA, GAINESVILLE, FL.

1985 to 1987

Biological Scientist and Laboratory Manager

EDUCATION

Antonin Scalia Law School, George Mason University, Arlington, Virginia

Juris Doctorate, awarded 1996. Specialization in patent law in the patent track founded by Prof. Kayton and managed by Prof. Witherspoon.

University of Florida, Gainesville, Florida

Doctor of Philosophy, awarded 1989. Dissertation Title: Rapid Detection of Enteroviruses in Environmental Samples.

Master of Science, awarded 1985. Thesis Title: Activation Thermodynamics and Enhancement of Virus Adsorption to Filters.

Bachelor of Science, awarded 1984. Major: Microbiology and Cell Science.

University of Maryland, Munich Campus, Germany

Bachelor's Candidate 1979 to 1980

ADMISSIONS

- California Bar (**187,063**)
- Registration to Practice Before the United States Patent and Trademark Office (**38,710**)
- Admitted for practice before:
 - United States Court of Appeals for the Federal Circuit
 - United States District Court, Southern District of California
 - United States District Court, Central District of California

CERTIFICATIONS

- Life Coach

PUBLICATIONS

1. Farrah, S.R. and D.R. Preston. 1985. Concentration of viruses from water by using cellulose filters modified by in situ precipitation of ferric and aluminum hydroxides. *Appl. Environ. Microbiol.* 50:1502-1504.
2. Preston, D.R. 1985. Activation thermodynamics and enhancement of virus adsorption to filters. Masters Thesis. University of Florida, Department of Microbiology and Cell Science.
3. Preston, D.R., V.V. Vasudevan, G. Bitton, S.R. Farrah, and J.-L. Morel. 1988. Novel approach for modifying microporous filters for virus concentration from water. *Appl. Environ. Microbiol.* 54:1325-1329.
4. Farrah, S.R., M.A. Girard, G.A. Toranzos, and D.R. Preston. 1988. Adsorption of viruses to diatomaceous earth modified by in situ precipitation of metallic salts. *Z. gesamte Hyg.* 34:520-521.
5. Preston, D.R. and S.R. Farrah. 1988. Activation thermodynamics of bacteriophage adsorption to filter material. *Appl. Environ. Microbiol.* 54:2650-2654.
6. Preston, D.R., S.R. Farrah, and G. Bitton. 1988. Removal of viruses from tapwater by fiberglass filters modified with a combination of cationic polymers. *Water Sci. Technol.* 21:93-98.
7. Preston, D.R. 1989. Doctoral Dissertation. Rapid detection of enteroviruses in environmental samples. University of Florida, Department of Microbiology and Cell Science.
8. Preston, D.R., S.R. Farrah, and G. Bitton. 1990. Enhanced infectivity of enteroviruses in vitro by pretreating cell monolayers with the cationic polymer polyethylenimine. *Appl. Environ. Microbiol.* 56:295-297.
9. Preston, D.R., G.R. Chaudhry, and S.R. Farrah. 1990. Evaluation of nucleic acid probes for the detection and identification of poliovirus in environmental samples. *Can. J. Microbiol.* 36:664-669.
10. Farrah, S.R. and D.R. Preston. 1991. Adsorption of viruses by diatomaceous earth coated with metallic oxides and metallic peroxides. *Water Sci. Technol.* 24:235-248.
11. Borrego, J.J., R. Cornax, D.R. Preston, S.R. Farrah, B. McElhaney, and G. Bitton. 1991. Development and application of new positively charged filters for recovery of bacteriophages from water. *Appl. Environ. Microbiol.* 57:1218-1222.
12. Farrah, S.R., D.R. Preston, G.A. Toranzos, M. Girard, G.A. Erdos, and V. Vasuhdivan. 1991. Use of modified diatomaceous earth for removal and recovery of viruses in water. *Appl. Environ. Microbiol.* 57:2502-2506.
13. Preston, D.R., G.R. Chaudhry, S.R. Farrah, and G. Bitton. 1991. Possibility of an RNA 18-mer region of human immunodeficiency virus (HIV) in Belleglade, Florida wastewater. *J. Virol. Methods.* 33:383-390.
14. Preston, D.R. and S.A. Schaub. 1991. Technology assessment and strategy for development of a rapid field water microbiology test kit. U.S. Army Biomedical Research & Development Laboratory, Fort Detrick, Technical Report 9106 (Approved for public release; distribution unlimited).

BOOKS

1. PTSD and the 12 Steps: A Tailored, Mindful, Calming, and Growth-Oriented Approach for Survivors, Family, and Friends. Copyright David R. Preston 2016, Published by Eve Pacific Partners, LLC, and available on Amazon.com

PATENTS (CONTRIBUTED ON A LABORATORY SCALE BUT NOT NAMED INVENTOR)

- U.S. Patent Number 5,000,000, Ingram et al., Ethanol Production by Escherichia coli Strains Co-Expressing Zymomonas PDC and ADH Genes. (Not a named inventor) Involved in a related project to produce carbohydrates from biomass for ultimate use as an energy source for the E. coli of Ingram et al.
- U.S. Patent Number 5,051,189, Farrah, Method of Removing an Unwanted Impurity From an Aqueous Material. (Not a named inventor) Base project from master's thesis.

PATENTS (NAMED INVENTOR)

1. U.S. Patent Publication 2021/0017477, Preston and Nation, PREPARATIONS INCLUDING EXTRACTS OF NATURAL PRODUCTS SUCH AS WOOD AND USE THEREOF AS FLAVORINGS FOR FOOD AND ALCOHOLIC AND NON-ALCOHOLIC BEVERAGES.
2. PCT Publication WO 2021/011210, Preston and Nation, PREPARATIONS INCLUDING EXTRACTS OF NATURAL PRODUCTS SUCH AS WOOD AND USE THEREOF AS FLAVORINGS FOR FOOD AND ALCOHOLIC AND NON-ALCOHOLIC BEVERAGES.
3. U.S. Patent 11,781,097, Preston and Nation, PREPARATIONS INCLUDING EXTRACTS OF NATURAL PRODUCTS SUCH AS WOOD AND USE THEREOF AS FLAVORINGS FOR FOOD AND ALCOHOLIC AND NON-ALCOHOLIC BEVERAGES.
4. U.S. Patent Publication 2023/0384660, Preston and Nation, PREPARATIONS INCLUDING EXTRACTS OF NATURAL PRODUCTS SUCH AS WOOD AND USE THEREOF AS FLAVORINGS FOR FOOD AND ALCOHOLIC AND NON-ALCOHOLIC BEVERAGES.
5. U.S. Patent Publication 2025/0339788, Nation and Preston, PREPARATIONS INCLUDING EXTRACTS OF NATURAL PRODUCTS SUCH AS WOOD AND USE THEREOF AS FLAVORINGS FOR FOOD AND ALCOHOLIC AND NON-ALCOHOLIC BEVERAGES.