

Curriculum Vitae

Phillip W. Albro

Education:

St. Louis University, St. Louis, MO, 1968, Ph.D. Biochemistry

University of Rochester, Rochester, NY, 1961, B.A. Chemistry

Experience:

9/2004 – Present: Scientist Associate, Chatham Research, Ltd.

Collaborate on the response to client requests.

4/2004 – 9/2004: Senior Science Advisor, Eno River Labs, LLC., Durham, NC

Advise management on technical issues. Train and mentor Scientists in both specialized knowledge of Eno River Labs technology and in science advisory functions. Provide strategies for technical policy making. Document existing technology as completely as possible.

2003-3/2004: Senior Science Advisor, Triangle Laboratories, Inc., Durham, NC

Change in job title, same responsibilities as below.

10/97 - 2003: Technical Director, Triangle Laboratories, Inc., Durham, NC.

Participate in development of Company strategies . Participate in the development and monitoring of Company operational systems. Assist in the improvement of the technical capabilities of the employees.

Technical consultant for design, performance and customer support of special projects. Leadership and management of the Company's resources assigned for the development of new assays and methods. Provide technical problem solving assistance as needed.

9/96 - 10/97: Development Manager, Triangle Laboratories, Inc., Durham, NC.

Manage the Development Group. Oversee all aspects of development projects including new methods development, methods improvement, new methods installation. Interact with clients to ensure their development needs are met in a timely manner.

1/96 - 9/96: Technical Director, Triangle Laboratories, Inc., Durham, NC.

Provide technical guidance to Production unit. Be familiar with current methodologies for all analytes and matrices of relevance to the company. Review all SOPs and advise on technical improvements.

10/94 - 1/96: Senior Scientist, Triangle Laboratories, Inc., Durham, NC.

Organizing, scheduling, streamlining and directing all aspects of production. Interaction with employees and management to ensure proper procedures are adhered to in the laboratory, provide training of laboratory staff, and develop new methodologies.

1982 - 1994: Work Group Leader, Metabolism, LMB, N.I.E.H.S.,
Research Triangle Park, NC.

1976 - 1982: Research Leader, Biochemistry Group, LEC, N.I.E.H.S.,
Research Triangle Park, NC.

1968 - 1976: Research Chemist, N.I.E.H.S., Research Triangle Park, NC.

Training:

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| 1994-Present | Training & development curriculum as required by Triangle Laboratories, Inc. Documentation of training completed is available for inspection in individual training file. |
| 1961 -1965 | Microanalysis of microbial metabolites, physiological chemistry, calculus, French (U.S.Dept. of Agriculture Graduate School), U.S.Army active duty. U.S.Army Biological Laboratories, Frederick, MD. |
| 1974 | Continuing Education classes in Immunochemistry, The Center For Professional Advancement, Trenton, NJ. |
| 1996 | Quantitative Mass Spectrometry Yves Tondeur Triangle Laboratories, Inc., Durham, NC. |

GLP Training:

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| Oct 04, 1994 | GLP Orientation Wanda Dean Triangle Laboratories, Inc., Durham, NC. |
| Mar 03, 1995 | Introduction to GLP Paul Lepore |

Triangle Laboratories, Inc., Durham, NC.

Jun 12, 1996

GLP Documentation

Patty Ragsdale

Triangle Laboratories, Inc., Durham, NC.

1995 - Present

Good Laboratory Practices curriculum as required by Triangle Laboratories, Inc. Documentation of training completed is available for inspection in individual training file.

PUBLICATIONS

Winter, L.N. and P.W. Albro, Differentiation of amino acids by gas-liquid chromatography of their pyrolysis products, J. of G.C., Jan 1964, 1-6.

Huston, C.K. and P.W. Albro, Lipids of *Sarcina lutea*, I. Fatty acid composition of the extractable lipids, J.Bacteriol., 88: 425-432 (1964).

Albro, P.W. and C.K. Huston, Lipids of *Sarcina lutea*. II. Hydrocarbon content of the lipid extracts, J. Bacteriol., 88: 981-986 (1964).

Huston, C.K., P.W. Albro and G.B. Grindey, Lipids of *Sarcina lutea*. III. Composition of the complex lipids, J. Bacteriol., 89: 768-775 (1965).

Albro, P.W. and J.C. Dittmer, Determination of the distribution of the aliphatic groups of glyceryl ethers by gas-liquid chromatography of the diacetyl derivatives, J. Chromatogr., 38: 230-239 (1968).

Randle, C.L., P.W. Albro and J.C. Dittmer, The phosphoglyceride composition of Gram-negative bacteria and the changes in composition during growth, Biochim. Biophys. Acta, 187: 214-220 (1969).

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Albro, P.W. and J.C. Dittmer, The biochemistry of long-chain nonisoprenoid hydrocarbons. II. The incorporation of acetate and the aliphatic chains of isoleucine and valine into fatty acids and hydrocarbons by *Sarcina lutea* in vivo, Biochemistry (ACS), 8: 953-959 (1969).

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Albro, P.W. and J.C. Dittmer, The biochemistry of long-chain nonisoprenoid hydrocarbons. IV. Characteristics of synthesis by a cell-free preparation of *Sarcina lutea*, Biochemistry (ACS), 8: 3317-3324 (1969).

Albro, P.W. and L. Fishbein, Determination of prostaglandins by gas-liquid chromatography, J. Chromatogr., 44: 443-451 (1969).

Albro, P.W. and L. Fishbein, Gas chromatography of sulfur mustard and its analogs, J. Chromatogr., 46: 202-203 (1970).

Albro, P.W. and J.C. Dittmer, Bacterial hydrocarbons: Occurrence, structure and metabolism (Review), Lipids, 5: 320-325 (1970).

Albro, P.W., T.D. Meehan and J.C. Dittmer, The biochemistry of long-chain, nonisoprenoid hydrocarbons. V. Intermediate steps in the incorporation of fatty acids by lysates of *Sarcina lutea*, Biochemistry (ACS), 9: 1893-1898 (1970).

Fishbein, L. and P.W. Albro, Thin-layer and gas-liquid chromatography of derivatives of isomeric chlorophenols: Fluorosulfonylbenzene Chlorophenylsulfonates and related compounds, J. Chromatogr., 51: 219-226 (1970).

Albro, P.W. and L. Fishbein, Short-term effects of piperonyl butoxide on the deposition of dietary hydrocarbon in rat tissues, Life Sciences, 9: 729-739 (1970).

Albro, P.W. and L. Fishbein, Isolation and characterization of 5,8,12- trihydroxy-trans-9-octadecenoic acid from wheat bran, Phytochem., 10: 631-636 (1971).

Albro, P.W. and L. Fishbein, Absorption of aliphatic hydrocarbons by rats, Biochim. Biophys. Acta, 219: 437-446 (1970).

Albro, P.W. and L. Fishbein, Determination of metabolites of tyrosine and of tryptophan and related compounds by gas-liquid chromatography, J. Chromatogr., 55: 297-302 (1971).

Albro, P.W., Confirmation of the identification of the major C-29 hydrocarbons of *Sarcina lutea*, J. Bacteriol., 108: 213-218 (1971).

Albro, P.W., R. Thomas and L. Fishbein, Prostaglandins: Action in mast cells in vitro, Prostaglandins, 1: 133-146 (1972).

Albro, P.W., L. Fishbein and J. Fawkes, Purification and characterization of pesticidal synergists. I. Piperonyl butoxide, J. Chromatogr., 65: 521-532 (1972).

Albro, P.W. and L. Fishbein, Intestinal absorption of polychlorinated biphenyls in rats, Bull. Environ. Contam. Toxicol., 8: 26-31 (1972).

Albro, P.W. and L. Fishbein, Quantitative and qualitative analysis of polychlorinated biphenyls by gas-liquid chromatography and flame ionization. I. One to three chlorine atoms, J. Chromatogr., 69: 273-283 (1972).

Fishbein, L. and P.W. Albro, Chromatographic and biological aspects of the phthalate esters, J. Chromatogr., 70: 365-412 (1972).

Albro, P.W., R. Thomas and L. Fishbein, Metabolism of diethylhexyl phthalate by rats. Isolation and characterization of the urinary metabolites, J. Chromatogr., 76: 321-330 (1973).

Albro, P.W., R. Thomas and L. Fishbein, Increased sensitivity to egg albumin in rats fed pristane, J. Allergy Clin. Immunol., 52: 85-93 (1973).

Albro, P.W. and R. Thomas, Enzymatic hydrolysis of di(2-ethylhexyl) phthalate by lipases, Biochim. Biophys. Acta, 360: 380-390 (1973).

Bennett, H.S. and P.W. Albro, PCBs in microscope immersion oil, Science, 181: 190-191 (1973) [letter].

Albro, P.W. and A.D. Latimer, [Letter to the editor], Env. Health. Persp., exptl. issue #6, Dec. 1973.

Albro, P.W. and A.D. Latimer, Pancreatic non-specific lipase: An enzyme highly specific for micelles, Biochemistry (ACS), 13: 1431- 1439 (1974).

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Albro, P.W. and R. Thomas, Intestinal absorption of hexachlorobenzene and hexachlorocyclohexane isomers in rats, Bull. Environ. Contamin. Toxicol., 12: 289-294 (1974).

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Albro, P.W. and R.O. Thomas, Metabolism of phytane in rats, Biochim. Biophys. Acta, 372: 1-14 (1974).

Albro, P.W., Determination of protein in preparations of microsomes, Anal. Biochem., 64: 485-493 (1975).

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Albro, P.W., Bacterial waxes, in Chemistry and Biochemistry of Natural Waxes, P.E. Kolattukudy (ed.), Elsevier, Amsterdam, 1976, pp. 419-445 (Chapter 10).

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Albro, P.W., B.J. Corbett and J.R. Hass, The mechanism for nonspecific lipase from rat pancreas, Biochim. Biophys. Acta, 424: 351-365 (1976).

Moore, J.A., M.W. Harris and P.W. Albro, Tissue distribution of (14C)-tetrachlorodibenzo-p-dioxin in pregnant and neonatal rats, Toxicol. Appl. Pharmacol., 37: 146 (1976) (Abstract).

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Odum, D., C.C. Peck, P.W. Albro, J.R. Hass, H. Friedman, D. Jess, J. Brady and T. Zuck, Di-(2-ethylhexyl) phthalate and mono-(2-ethylhexyl) phthalate accumulation in blood stored in plastic bags, Presented at Am. Assoc. Blood Banks, Atlanta, GA, Nov. 1977.

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Luster, M.I., P.W. Albro, K. Chae, G. Clark and J.D. McKinney, Radioimmunoassay for mono- (2-ethylhexyl) phthalate in unextracted plasma, Clin. Chem., 24: 429-432 (1979).

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Kohli, K.K., B.N. Gupta, P.W. Albro, H. Mukhtar and J.D. McKinney, Biochemical effects of pure isomers of hexachlorobiphenyl: Fatty livers and cell structure, Chem.-Biol. Interact., 25: 139-156 (1979).

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Kohli, K.K., R.M. Philpot, P.W. Albro and J.D. McKinney, Induction of different species of cytochrome P-450 by coplanar and noncoplanar isomers of hexachlorobiphenyl, Life Sciences, 26: 945-952 (1980).

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Luster, M.I., P.W. Albro, K. Chae, L.D. Lawson, J.T. Corbett and J.D. McKinney, Radioimmunoassay for quantitation of 2,3,7,8-tetrachloro- dibenzofuran, Anal. Chem., 52: 1497-1500 (1980).

Luster, M.I., P.W. Albro, K. Chae, S.K. Chaudhary and J.D. McKinney, Development of radioimmunoassays for chlorinated aromatic hydrocarbons, in Environmental Health Chemistry. Chemistry of Environmental Agents as Potential Human Hazards, J.D. McKinney (ed.), (1980), Ann Arbor Science Publ. Co., Ann Arbor, MI, pp. 279-297.

Luster, M.I., P.W. Albro and J.D. McKinney, Analysis of TCDD in human tissues by RIA, 1981 SOT Meeting, San Diego, CA, March, 1981; The Toxicologist, 1: 204 (1981) (Abstract).

Albro, P.W., J.R. Hass, C.C. Peck, D.G. Odom, J.T. Corbett, P.J. Bailey, H.E. Blatt and B.B. Barrett, Identification of the metabolites of di-(2-ethylhexyl) phthalate in urine from the African Green Monkey, Drug Metab. Disp., 9: 223-225 (1981).

Albro, P.W., J.T. Corbett and J.L. Schroeder, Quantitative characterization of polychlorinated biphenyl (PCB) mixtures by gas chromatography using capillary columns: Aroclorsc 1248, 1254 and 1260, J. Chromatogr., 205: 103-111 (1981).

Albro, P.W. and J.D. McKinney, The relationship between polarization of polychlorinated biphenyls and their induction of mixed function oxidase activity, Chem.-Biol. Interact., 34: 373-378 (1981).

Albro, P.W., J.T. Corbett, J. Schroeder, S. Jordan and H.B. Matthews, The fate of di-(2-ethylhexyl) phthalate in rats, 1981 SOT meeting, San Diego, CA, March 1981; The Toxicologist, 1: 55 (1981) (Abstract).

Peck, C.C., D. Odom, P.W. Albro, D.A. Jess and B.B. Barrett, Effect of heat on the conversion of di-2-ethylhexyl phthalate to mono-2-ethylhexyl phthalate in human plasma, Transfusion, 21: 163-166 (1981).

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Honors & Other Special Recognition:

Westinghouse Science Talent Search finalist, 1957
National Honor Society Scholarship
N.Y. State Regents Scholarship
N.Y. State Science & Engineering Scholarship
Rochester Prize Scholarship
Bausch & Lomb Math & Science Medal
National Institutes of Health Predoctoral Fellowship
Alpha Sigma Nu (honorary fraternity)
American Oil Chemists' Society Honored Student Award
Included in "American Men of Science" and "Personalities of the South"
Certificate of Achievement, U.S. Army Biol. Labs, 1964
Invited Lecture and Workshop Chair, N.Y. Academy of Sciences, 1978
Invited to give continuing education course, N.Y. University, School of
Medicine
Included in "Who's Who in Technology Today", 1982
Achievement and Performance Awards, National Institutes of Health, for
1974, 1977, 1978, 1989, 1991, 1992.

Committees and Outside Activities:

NIEHS Editorial Review Board (Chairman)
NIEHS Chemicals Priorities Committee
NIEHS Smoking Committee
NIEHS Biophysics Branch Chief Search Committee (1976)
Interagency Project Group on Standardization of Methods and Tests
(1977-1979)
Interagency Project Group on Data Quality Assurance (1979-1983)
NIEHS 9-11 Promotion Review Board (1980-1982)
Editorial Advisory Committee, Envir.Health Persp.
Intramural Research representative on Management Project Team
(1981-1982)
TRTP Promotions Review Committee (1985-1987)
NIEHS Consultant to U.S.Consumer Product Safety Commission (1984-1986)
NIEHS Committee of Bench Scientists (1982-1994)
Chemical Safety Protocol Committee (1970-1994)
Consultant, Letterman Army Institute of Research, (1974-1981)
NIEHS Animal Care and Use Committee (1982-1988, Chairman 1987-1988)
Sysop, NIEHS Apple Users' Group (1988-1994)
NIEHS Chemical and Issues Nominations Committee (1993-1994)
Consultant, International Red Cross, (1994)
Adjunct Associate Professor, Pharm. & Physiol. Duke Univ. (1975 -)

Adjunct Associate Professor, University of North Carolina (Chapel Hill)
School of Public Health (1980 -)

Member of American Chemical Society, American Association for the
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Academy of Sciences, Research Triangle Chromatography Group.

Teaching Experience:

Introductory biochemistry, first-year medical students, St. Louis
University, 1968.

Continuing Education course for M.D.'s at N.Y.U., 1985.

'Principles of Chromatography' and 'Practical Gas Chromatography' as
portions of survey courses at U.N.C.S.P.H., between 1986 and 1989.

Lectured on phthalate esters, U.N.C.S.P.H. (1987-1990)

'Common Sense in Environmental Analysis', a 6-hour short course for
laboratory and administrative staff on a contract consultant basis.

Co-taught semester course (3 credit hours) on 'Principles of Trace
Organic Analysis' for the past 17 years (U.N.C.S.P.H.)

A series of Computer Literacy workshops for the Carolina Apple Core.