

CURRICULUM VITAE

NAME: Alan Douglas Strickland

DATE OF BIRTH: April 18, 1949

EDUCATION:

University of Texas at Dallas
Richardson, Texas
Doctor of Chemistry, 1994
Thesis: Molecular mechanics study of enzymatic relationships in a group of nitrogenous compounds.

Baylor College of Medicine
Houston, Texas
M.D. degree, May 1974

California Institute of Technology
Pasadena, California
M.S. degree with major in Chemistry, June 1971
Thesis: Transition Metal Derivatives of Tetrapyridalporphyrin

California Institute of Technology
Pasadena, California
B.S. degree with a major in Chemistry, June 1971

POSTGRADUATE:

Straight Pediatric Internship and Residency
Baylor College of Medicine Affiliated Hospitals
Houston, Texas
July 1974 to June 1977

Pediatric Nutrition and Gastroenterology Fellowship
Baylor College of Medicine Affiliated Hospitals
Houston, Texas
July 1977 to June 1979

CERTIFICATION:

Texas State Board of Medical Examiners - 1974
National Board of Medical Examiners - 1975
American Board of Pediatrics - 1979

ORGANIZATIONS:

Tau Beta Pi, California Institute of Technology Chapter
North American Society for Pediatric Gastroenterology and Nutrition
Texas Medical Association
American Chemical Society

ACADEMIC APPOINTMENTS:

Graduate Teaching Assistant, Chemistry
California Institute of Technology
September 1970 to June 1971

Instructor in Pediatrics
Baylor College of Medicine
July 1974 to June 1979

Assistant Professor of Pediatrics
University of Texas Health Science Center
Dallas, Texas
July 1979 to September 1982

Clinical Assistant Professor of Pediatrics
University of Texas Health Science Center
Dallas, Texas
October 1982 to December 1990

Graduate Teaching Assistant or Research Associate
University of Texas at Dallas
August 1991 to August 1993

HONORS:

Thomas J. Watson IBM National Merit Scholar
California Institute of Technology
1967 to 1971

Outstanding Teaching Fellow, Pediatrics
Baylor College of Medicine
1977 to 1978

Outstanding Teaching Award for Pediatric Faculty
University of Texas Health Science Center
1979 to 1980

Golden Eagle Award
The Dow Chemical Company Versene Business
1993

Inventor of the Year Award
The Gulf Coast Scientists of The Dow Chemical Company
1997

Excellence in Science Award
The Gulf Coast Scientists of The Dow Chemical Company
1998

Excellence in Science Award
The Gulf Coast Scientists of The Dow Chemical Company
2001

ABSTRACTS:

- 1) Out-patient Identification of Young Infants with Life Threatening Infections. A. D. Strickland, A. Paredes, and N. Byrd. Ambulatory Pediatric Association Annual Meeting, April, 1977.
- 2) Management of Acute Secretory Diarrhea Syndrome. A. D. Strickland, G. Daoud, G. Ferry, W. Klish, and B. L. Nichols. Society for Pediatric Research, 1978
- 3) Use of Fecal Electrolytes in the Diagnosis of Acute Secretory Diarrheas. G. S. Daoud, C. T. L. Huang, R. Calvin, A. D. Strickland, M. M. Levine, D. R. Nalin, W. R. Woodward, and B. L. Nichols. Southern Society for Pediatric Research, 1978
- 4) Novel Bile Acids in Intrahepatic Cholestasis. A. D. Strickland, C. T. L. Huang, and B. L. Nichols. American Society for Clinical Nutrition, 1979
- 5) Formula Effects on Growth After Diarrhea. A. D. Strickland, C. Garza, and B. L. Nichols. American Society for Clinical Nutrition, 1979
- 6) A Nutrition Survey of Pediatric In-patients. C. E. Mize, A. D. Strickland, B. Teitell, C. Cunningham, and J. Parker. Society for Pediatric Research, 1981
- 7) Studies on the Etiology of Extrahepatic Biliary Atresia. Alan D. Strickland, and Kevin M. Shannon. Society for Pediatric Research, 1982
- 8) Bethanechol Treatment of Gastroesophageal Reflux. Alan D. Strickland, and Jack H. T. Chang. Society for Pediatric Research, 1982
- 9) Enhanced Glucose Absorption in the Jejunum of Patients with Cystic Fibrosis. L. L. Frase, A. D. Strickland, G. W. Kachel, and G. J. Krejs. American Gastroenterological Association, 1982
- 10) Long-term Treatment of a Child with Pancreatic Cholera Syndrome with Somatostatin Analog (SMS 201-995). W. C. Santangelo, A. D. Strickland, J. M. Ducore,

and G. J. Krejs. Sixth International Symposium on Gastrointestinal Hormones. July, 1986.

11) Efficacy of an Oral Cross-Linked Polyelectrolyte Sorbent (CLP) on Solute and Fluid Balance in a Dog with Dialysis-Dependent ESRD. Thierry Francey, Larry D. Cowgill, Alan D. Strickland, Jaime Simon. American Society of Veterinary Internal Medicine, 2002.

12) Efficacy of an Oral Cross-Linked Polyelectrolyte Sorbent (CLP) on Solute and Fluid Balance in a Dog with Dialysis-Dependent ESRD. Thierry Francey, Larry D. Cowgill, Alan D. Strickland, Jaime Simon. American Society of Nephrology (Abstract SA-P0749), 2002

CHAPTERS:

- 1) Strickland, A. D., "ENTAMOEBIA HISTOLYTICA" in Textbook of Pediatric Infectious Diseases. Eds. Feign, R. D. and Cherry, J. D. Philadelphia, Saunders, 1981, pp. 1543 - 1550.
- 2) Strickland, A. D. and Hadorn, B. "ESOPHAGUS" in Practical Pediatric Therapy. Ed. Eichenwald, Heinz F. and Stroder, J. Deerfield Beach, Florida, VCH Publishers, 1985, pp. 125 - 136.
- 3) Strickland, A. D. and Hadorn, B. "STOMACH" in Practical Pediatric Therapy. Ed. Eichenwald, H. F. and Stroder, J. Deerfield Beach, Florida, VCH Publishers, 1985, pp. 136-138.
- 4) Strickland, A. D. and Hadorn, B. "SMALL BOWEL" in Practical Pediatric Therapy. Ed. Eichenwald, H. F. and Stroder, J. Deerfield Beach, Florida, VCH Publishers, 1985, pp. 138 - 144.
- 5) Strickland, A. D. and Hadorn, B. "COLON" in Practical Pediatric Therapy. Ed. Eichenwald, H. F. and Stroder, J. Deerfield Beach, Florida, VCH Publishers, 1985, pp. 144-150.
- 6) Strickland, A. D. and Hadorn, B. "PANCREAS" in Practical Pediatric Therapy. Ed. Eichenwald, H. F. and Stroder, J. Deerfield Beach, Florida, VCH Publishers, 1985, pp. 150-157.
- 7) Strickland, A. D. and Hadorn, B. "LIVER" in Practical Pediatric Therapy. Ed. Eichenwald, H. F. and Stroder, J. Deerfield Beach, Florida, VCH Publishers, 1985, pp. 158 - 172.

- 8) Strickland, A. D. " GASTROESOPHAGEAL REFLUX" in A Practical Guide to Pediatric Intensive Care, Second Edition. Ed. Levin, D. L., Morris, F. C., and Moore, G. C. St. Louis, Mosby, 1984, pp. 371 - 374.
- 9) Strickland, A. D. "GASTROINTESTINAL BLEEDING" in A Practical Guide to Pediatric Intensive Care, Second Edition. Ed. Levin, D. L., Morris, F. C., and Moore, G. C. St. Louis, Mosby, 1984, pp. 367 - 370.
- 10) Strickland, A. D. and Mize, C. E. "ACUTE HEPATIC FAILURE" in A Practical Guide to Pediatric Intensive Care, Second Edition. Ed. Levin, D. L., Morris, F. C., and Moore, G. C. St. Louis, Mosby, 1984, pp. 130 - 134.
- 11) Strickland, A. D., "ENTAMOEBIA HISTOLYTICA" in Textbook of Pediatric Infectious Diseases, Second Edition. Eds. Feign, R. D. and Cherry, J. D. Philadelphia, Saunders, 1987, pp. 1743 - 1750.
- 12) Strickland, A. D., "ENTAMOEBIA HISTOLYTICA" in Textbook of Pediatric Infectious Diseases, Third Edition. Eds. Feign, R. D. and Cherry, J. D. Philadelphia, Saunders, 1992, pp. 2003 - 2010.
- 13) Hotez, Peter J. and Strickland, A. D., "AMEBIASIS" in Textbook of Pediatric Infectious Diseases, Fourth Edition. Eds. Feign, R. D. and Cherry, J. D. Philadelphia, Saunders, 1998, pp. 2389 - 2397.

MAJOR TALKS PRESENTED:

- 1) Out-patient Identification of Young Infants with Life Threatening Infections. Ambulatory Association Annual Meeting, 1977.
- 2) Infant Nutritional Needs. Family Practice Continuing Medical Education Conference sponsored by Baylor College of Medicine. Houston, Texas, 1979.
- 3) Chronic Diarrhea. Pediatric Continuing Medical Education Conference sponsored by Baylor College of Medicine. Houston, Texas, 1979.
- 4) Gastrointestinal Bleeding. Pediatric Intensive Care Conference sponsored by University of Texas Health Science Center. Dallas, Texas, 1980.
- 5) Nutritional Aspects of Gastrointestinal Diseases in Childhood. The National Medical Association Annual Meeting, 1980.
- 6) Chronic Recurrent Abdominal Pain. Texas Medical Association - Pediatric Section Annual Meeting. 1980.
- 7) Pediatric Endoscopy. Society for Gastrointestinal Assistants Annual Meeting, 1980.

- 8) Program Director and Speaker, "Pediatric Gastroenterology - "What's New?" American Medical Association Annual Meeting, 1981.
- 9) Nutritional Aspects of Pediatric Gastroenterology. American Dietetics Association Annual Meeting, Dallas, Texas, 1981.
- 10) Treatment of Chronic Bowel Disease in Children. Texas Pediatric Society Annual Meeting, September 21-23, 1984.
- 11) Irritable Bowel Syndrome. Annual Pediatric Medical Education Course, Methodist Hospital of Dallas, October, 1986.
- 12) Gastroesophageal Reflux. Annual Medical Education Course, Medical City Hospital of Dallas, September, 1987.
- 13) Pediatric Liver Disease. American Liver Foundation Symposium, Dallas, November 18, 1989

LECTURES PRESENTED:

GRAND ROUNDS:

1. Outpatient Identification of Young Infants with Life Threatening Infections. Pediatric Grand Rounds, Baylor College of Medicine, Spring, 1979.
2. Clinical Pathologic Conference on Crohn's Disease. Pediatric Grand Rounds, University of Texas Health Science Center at Dallas, Fall, 1979.
3. Treatment of Diarrhea in the Infant and Child. Pediatric Grand Rounds, University of Texas Health Science Center at Dallas, Fall, 1980.
4. Childhood Obesity. Pediatric Grand Rounds, University of Texas Health Science Center at Dallas, Spring, 1982.
5. Gastroesophageal Reflux in Childhood. Pediatric Grand Rounds, University of Texas Health Science Center at Dallas, Spring, 1984.
6. Infant Nutrition. Pediatric Grand Rounds, Texas A & M Medical School, December, 1986.
7. Childhood Diarrhea and Irritable Bowel Syndrome. Pediatric Grand Rounds, Texas A & M Medical School, May, 1987.

OTHER LECTURES:

Lectures to Junior Medical Students at UTHSCD on Etiology and Treatment of Childhood Diarrhea every month from September, 1981 through October, 1987.

Lecture to Pediatricians with CIGNA HMO January 28, 1986 on New Developments in Gastroenterology.

Lecture to Pediatric Section of Irving Community Hospital on March 4, 1986 on Acute Diarrhea and Gastroesophageal Reflux.

Lecture to Pediatric Section of Garland Memorial Hospital, March 7, 1986 on Colic.

Lecture to Tyler Pediatric Society, April 8, 1986 on Irritable Bowel Syndrome in Childhood.

Lecture to Pediatricians with Kaiser HMO, June 3, 1986 on New Developments in Gastroenterology.

Lecture to NICU Training Course at Medical City Hospital on Hyperalimentation, October 13, 1986, March 16, 1987, September 3, 1987, February 22, 1988, March 28, 1988, July 5, 1988, February 20, 1989, May 8, 1989, July 20, 1989, February 19, 1990, and July 17, 1990.

Lecture to PICU Training Course at Medical City Hospital on Gastrointestinal Diseases in the ICU on September 17, 1987 and August 28, 1989.

Lecture to Pediatric Nurses at Presbyterian Hospital on Collection and Interpretation of Quantitative Fecal Fat Tests. November 21, 1988.

Lecture to NICU Training Course on Gastroesophageal Reflux in Newborns on February 22, 1988 and May 24, 1989.

Lecture to Pediatric Nurse Interns at Medical City Hospital on Gastroesophageal Reflux, Pediatric Endoscopy, Pediatric Percutaneous Endoscopic Gastrostomy, Pediatric Total Parenteral Nutrition, and Irritable Bowel Syndrome. June 21, 1989 and June 20, 1990.

PAPERS:

1) Strickland, Alan D. and Shannon, Kevin: Studies in the etiology of extrahepatic biliary atresia: Time-space clustering. *J. Pediatr.*, 1982; 100:749-753.

2) Teitell, Betsy C. and Strickland, Alan D.: Intravenous administration of antibiotics. *Journal of the National Intravenous Therapy Association.* July - August, 1982.

- 3) Strickland, Alan D. and Chang, Jack H. T.: Results of treatment of gastroesophageal reflux with bethanechol. *J. Pediatr.*, 1983; 103:311-315.
- 4) Frase, L. L., Strickland, A. D., Kachel, G. W., and Krejs, G. J.: Enhanced glucose absorption in the jejunum of patients with cystic fibrosis. *Gastroenterology*, 1985; 88:478-484.
- 5) Rutledge, J., Andersen, J., Fink, C. W., Cook, J., and Strickland, A.: Persistent hypertransaminasemia as the presenting finding of childhood muscle disease. *Clinical Pediatr.*, 1985; 24:500-503.
- 6) Strickland, A. D., Shannon, K., and Coln, C. D.: Biliary atresia in two sets of twins. *J. Pediatr.*, 1985; 107: 418 - 420.
- 7) Chang, J. H. T., Coln, C. D., Strickland, A. D., and Andersen, J. M.: Surgical management of gastroesophageal reflux in severely mentally retarded children. *J. Mental Def. Research*, 1987; 31:1-7.
- 8) Grody, W. W., Argyle, C., Kern, R. M., Dizikes, G. J., Spector, E. B., Strickland, A. D., Klein, D., and Cederbaum, S. D.: Differential expression of the two human arginase genes in hyperargininemia. Enzymatic, pathologic, and molecular analysis. *J. Clin. Invest.*, 1989; 83:602-609.
- 9) Strickland, Alan D.; Caldwell, Richard A. Thermochemistry of strained cycloalkenes: experimental and computational studies. *Journal of Physical Chemistry* 1993; 97(50): 13394-402.
- 10) Strickland, Alan Douglas. Molecular mechanics study of enzymatic relationships in a group of nitrogenous compounds. Avail. Univ. Microfilms Int., Order No. DA9502049. (1994), 144 pp. From: *Diss. Abstr. Int. B* 1995, 55(8), 3272.
- 11) Stubbs, James B.; Strickland, Alan D.; Frank, R. Keith; Simon, Jaime; McMillan, Kenneth; Williams, Jeffery A. Biodistribution and dosimetry of an aqueous solution containing sodium 3-(125I)-iodo-4-hydroxybenzenesulfonate (Iotrex) for brachytherapy of resected malignant brain tumors. *Cancer Biotherapy & Radiopharmaceuticals*, 2000; 15(6): 645-656.

PATENTS PUBLISHED AS OF AUGUST 2005:

- 1) Borschel, Marlene W., Benson, John D., Breen, Merle D., MacLean Jr., William C., Ponder, Debra L., Strickland, Alan D., Treem, William R. Infant formula containing a soy polysaccharide fiber source. (Abbott Laboratories, USA) US 5,021,245 June 4, 1991.
- 2) Strickland, Alan D.. Determining biodegradability of aspartic acid derivatives, degradable chelants, their uses and compositions. (Dow Chemical Company, USA).

PCT Int. Appl. (1996), 36 pp. WO 9603644 A1 19960208 Application: WO 95-US8809 19950714. Priority: US 94-281060 19940727

3) Strickland, Alan D.. Determining biodegradability of iminodiacetic acid derivatives, degradable chelants, their uses and compositions. (Dow Chemical Company, USA). PCT Int. Appl. (1996), 36 pp. WO 9603643 A1 19960208 Application: WO 95-US8714 19950714. Priority: US 94-281054 19940727

4) Strickland, Alan D.; Wilson, David A.; Brown, Eric R. Polyaminomonosuccinic acid chelant for use in photographic processing. U.S. (1996), 14 pp. US 5585226 A 19961217 Application: US 95-521551 19950830.

5) Strickland, Alan D.; Wilson, David A. Preparation of N-aminoalkylaspartates as degradable chelants. PCT Int. Appl. (1997), 18 pp. WO 9708287 A2 19970306 Application: WO 96-US13939 19960829. Priority: US 95-3041 19950830.

6) Simon, Jaime; Masterson, Tipton Thomas; Strickland, Alan D.; Hilton, Martha L. Water-soluble polymers for the reduction of dietary phosphate or oxalate absorption. PCT Int. Appl. (1998), 42 pp. WO 9817707 A1 19980430 Application: WO 97-US19322 19971022. Priority: US 96-28993 19961023.

7) Strickland, Alan D.; Leenhouts, Ray O. A process for the decontamination of meats. PCT Int. Appl. (1998), 14 pp. WO 9804143 A2 19980205 Application: WO 97-US12902 19970723. Priority: US 96-22814 19960726.

8) Simon, Jaime; Frank, R. Keith; Strickland, Alan D. Radioiodinated phenols for brachytherapy. PCT Int. Appl. (1999), 29 pp. WO 9962564 A1 19991209 Application: WO 99-US12161 19990601. Priority: US 98-87769 19980602.

9) Strickland, Alan D.; Wilson, David A.; Crump, Druce K.; Burkholder, Brian D. Process for the preparation of polyamino succinic acids and derivatives. (Dow Chemical Co., USA). PCT Int. Appl. (2000), 20 pp. WO 2000058263 A1 20001005 Application: WO 2000-US4031 20000214. Priority: US 99-126402 19990326

10) Cranley, Paul E.; Miller, Ted E.; Tate, James D.; Strickland, Alan D.; McDonald, Charles J.; Bartels, Michael J. Personal computer breath analyzer for health-related behavior modification and method. U.S. Pat. Appl. Publ. (2001), 16 pp. US 20010037070 A1 20011101 Application: US 2001-779160 20010208. Priority: US 2000-184039 20000222.

11) Simon, Jaime; Strickland, Alan D.; Strom, Robert M. Dialysis solution including polyglycol osmotic agent PCT Int. Appl. (2001), 10 pp. WO 2001028544 A2

20010426 Application: WO 2000-US28523 20001013. Priority: US 99-159810 19991015.

12) Simon, Jaime; Strickland, Alan D.. In vivo use of water absorbent polymers PCT Int. Appl. (2002), 17 pp. WO 2002040039 A2 20020523 Application: WO 2001-US51233 20011106. Priority: US 2000-249955 20001120.

13) Cranley, Paul E.; Tate, James D.; Miller, Ted E.; Strickland, Alan D.; McDonald, Charles J.; Bartels, Michael J.; Schrock, Alan K.; Crane, Scott P. Personal computer breath analyzer for health-related behavior modification and method. U.S. Pat. Appl. Publ. (2002), 18 pp., Cont.-in-part of U. S. Ser. No. 779,160. US 2002007249 A1 20020117 Application: US 2001-799402 20010305. Priority: US 2000-184039 20000222; US 2001-779160 20010208.

14) Strickland, Alan D.; Simon, Jaime. (USA). Dialysis solution including polyglycol osmotic agent. U.S. Pat. Appl. Publ. (2003), 4 pp., Cont.-in-part of U.S. Ser. No. 687,512, US 2003202958 A1 20031030 Application: US 2003-396671 20030325. Priority: US 99-159810 19991015; US 2000-687512 20001013.

15) Inverardi, Luca A.; Ricordi, Camillo; Paganelli, Giovanni; Serafini, Aldo N.; Simon, Jaime; Strickland, Alan D.. Methods of achieving transplantation tolerance through radioablation of hemolymphopoietic cell populations. (USA). U.S. Pat. Appl. Publ. (2003), 20 pp., Cont.-in-part of U.S. Pat. Appl. 2003 3,051. US 2003228256 A1 20031211 Application: US 2002-316790 20021210. Priority: US 2002-166053 20020611.

16) Simon, Dana W.; Strickland, Alan D.; Simon, Jaime; Macey, Daniel J.; Franck, Keith R.; McMillan, Kenneth. Treatment of osteomyelitis with radiopharmaceuticals. PCT Int. Appl. (2003), 32 pp. WO 2003051403 A1 20030626 Application: WO 2002-US39692 20021211. Priority: US 2001-340665 20011213; US 2001-340545 20011213.

17) Cranley, Paul E.; Allen, Jeffrey R.; Danowski, Kristine L.; McIntyre, James A.; Miller, Theodore E., Jr.; Rosner, Bettina M.; Strickland, Alan D.; Subramanian, Venkiteswaran; Sun, Larry. Enzyme-based acetone detection system and sensor for noninvasive health monitoring. PCT Int. Appl. (2003), 163 pp. WO 2003039483 A2 20030515 Application: WO 2002-US36028 20021108. Priority: US 2001-332349 20011109.

18) Simon, Jaime; Strickland, Alan D. Water absorbent polymers for removing fluid from the intestinal tract. U.S. Pat. Appl. Publ. (2005), 8 pp., Cont.-in-part of U.S. Ser. No. 36,989. US 2005031680 A1 20050210 Application: US 2004-840112 20040506. Priority: US 2000-249955 20001120; US 2001-36989 20011106.

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