

## CURRICULUM VITAE (Rev. 7/07)

### RICHARD COTTER, Ph.D.

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#### PRESENT POSITION

- 7/96 - Present** Assistant Vice President, Global Scientific Affairs - Wyeth Consumer Healthcare, Madison NJ. This position is responsible for leadership of the Technical Nutrition Resources of the Corporation on a worldwide basis (88 Countries). This responsibility covers Current and New Product Development, strategic planning, budgeting, and technical management of New Business Development. This position assures the company a strong expanding technical base in the rapidly growing dietary supplement/functional food business.
- 2/95 - 7/96** Corporate Vice President - Research & Development (Product Development, Food Safety, Science and Technology) Gerber Products Company, Fremont, MI, Division of Novartis Corporation, Basel, Switzerland. This position is the chief technical position in the senior management team. This position is responsible for management of all the technical areas of Gerber and for synergistic technical initiatives of Gerber/Novartis. This necessitates the strategic planning, managing, budgeting and planning for all technical areas of Gerber and for all Gerber/Novartis synergies. This position assures the corporation a strong technical and scientific base that allows for safe efficient innovative products that satisfy consumer needs.
- 4/92 - 2/95** Corporate Director - Research & Development (Product Development, Quality Assurance, Food Safety & Regulatory Affairs) Gerber Products Company, Fremont, MI. This position is responsible for the management, direction, and focus of the short and long term strategic plans of Gerber. These responsibilities necessitate the strategic management, budgeting, and planning of these technical Research & Development resources. In addition, this position ensures that all required food safety, toxicology, technical, and regulatory affairs issues are managed for the corporation.
- 6/90 - 4/92** Corporate Director of Research & Development (Nutrition and Quality Assurance - Food Safety), Gerber Products Company, Fremont, MI. This position encompasses all of the described responsibilities of the Director of Nutrition (see below). In addition, this position is responsible for the management of quality at the corporate level at Gerber and familiarity with state-of-the-art quality approaches for industry. This position is accountable for the integration of Quality Control into Manufacturing, and has both corporate and manufacturing responsibility. This responsibility encompasses Gerber food plants, co-packers, and Gerber Baby Care manufacturing. This position assures the corporation of the quality, nutrition and safety of all Gerber products.
- 1/89 - 6/90** Corporate Director of Nutrition - Research & Development, Gerber Products Company, Fremont, MI. Administration of existing as well as all new product nutrition research and development. Participates in the formulation and execution of all existing and new product development strategies. These strategies cover the areas of infant formula, cereal, food and juices; toddler products including cereals and complete meals; and also adult foods (up to 60 products per year). Advanced technologies are monitored for potential Gerber applications. This position acts in a regulatory capacity with government agencies to plan and execute clinical trials and research studies. Joint ventures with U.S. and European companies are evaluated and coordinated under this responsibility. This position initiates and executes strategies from product concept, through development, to final product.

#### EDUCATION

- 1976** Post Doctoral Training, New York Medical College, New York, NY.
- 1974** Ph.D. St. John's University, New York, NY  
Major concentration in biochemistry, cellular and vertebrate physiology, and nutrition.  
Thesis: Studies were conducted to monitor the interrelationship of the amino acids, tryptophan and tyrosine, in gluconeogenesis in the diabetic under physiological stress.
- 1969** M.S. Adelphi University, Garden City, NY.  
Major concentration in endocrinology, physiology, physiological and developmental cellular biology and genetics.  
Thesis: Dealt with radioactive tracers and DNA replication.
- 1967** A.A. and B.S. St. John's University, New York, NY  
Major: Biology Minor: Chemistry  
Course concentration in cellular and vertebrate biology.

## **PROFESSIONAL EXPERIENCE**

- 10/86 - 12/88** Associate Director, Clintec Nutrition Research & Development, Baxter Healthcare Corporation, Deerfield, IL/Nestle S.A., Vevey, Switzerland.  
Administration of new product research, development and clinical trials in the area of clinical nutrition. Formulate new and existing product research and development strategies; utilize the R&D resources of Baxter Healthcare Corporation, Nestle S.A., and KabiVitrum; and execute these strategies from product concept, through development, to final product.
- 11/84 - 10/86** Associate Director, Corporate Research  
Travenol Laboratories, Inc.; Round Lake, IL.  
Administration of three laboratory sections, Biochemistry and Nutritional Sciences, Immunochemistry, and Hematology Research. Directed approximately 20 research and development scientists from B.S. to Ph.D. level in widely diverse corporate projects. The Biochemistry and Nutritional Sciences section conducted studies in the areas of the general biochemistry and nutrition of proteins, carbohydrates and lipids; metabolism in injury and repair, organ preservation; cardiovascular disease; gerontology; prostaglandins and leukotriene biochemistry. The Immunochemistry section conducted studies in the areas of general biochemistry of protein and nucleic acids, immunochemistry, immunobiology, monoclonal antibody production, immunoabsorption technology, recombinant DNA technology, and macrotechnology including fermentation and cell culture. The Hematology Research section conducted studies in the areas of blood coagulation factors and their role in hemostasis.

### **Program Management:**

Acted as a Corporate Research program manager in various major corporate programs.  
Allocated departmental resources for the execution of preclinical biochemical, nutritional, and toxicological studies.

## **PROFESSIONAL EXPERIENCE (Cont'd)**

### **New Business Development:**

Evaluation and Development of over twenty-five new business opportunities and acquisitions per year for Wyeth (1966-present).

Leader Wyeth Global Nutrition Product Team 1996 - 2002

Acquisition Solgar vitamins, minerals and herbals company 1998.

Infant Nutrition and Development - Gerber Products Company.

Evaluating the areas of immunity and biotechnology for potential new paradigm shifting food and feeding concepts to concrete new business opportunities.

Food products for older Americans.

Food products designed to help in childhood diarrhea.

R&D Officer on the Gerber/Novartis Merger Team.

Clinical Nutrition - Clintec Nutrition Company.

Acted as a corporate liaison evaluating the potential for successful formation of a new clinical nutrition company (Clintec Nutrition). This company combined the vast resources of Baxter Healthcare Corporation, Nestle, and the KabiVitrum companies in the area of clinical nutrition.

Veterinary Medicine - Baxter Alternate Care Division.

One of the original three people who conceptualized, evaluated, and began a business in this area.

Biomedical Opportunities in Space.

Evaluated this area for Baxter at the request of NASA for future product development opportunities.

### **Industrial Expertise:**

Cost center management including strategic budgetary, program, and manpower assignments. Knowledge of FDA, IND, and NDA & USDA requirements, Nutrition Labeling and Education Act (NLEA); Dietary Supplement Health and Education Act (DSHEA) familiarity with operating under FDA Good Laboratory Practices. Experience acting as internal corporate liaison between sales, marketing, advertising and research and development areas in regard to new and existing product development; experience as a project manager in taking products from developmental stages through pilot plant to final product production operations, marketing and sales. Over twenty five years of R&D management experience.

### **Research and Technical Expertise:**

Knowledge and technical expertise in: Whole animal and human nutrition and metabolism studies; product evaluation, clinical trials; plasma and tissue analysis of metabolites; histochemical, immunological and enzymatic techniques; radioimmunoassay; protein iodination; autoradiography; separation, identification, and quantification of proteins, carbohydrates, and lipids; radioisotope handling; gamma and liquid scintillation counting techniques; electrophoresis; electrofocusing; high and low pressure liquid chromatography separations; spectrophotometric methods; gas chromatography; pharmacokinetics; bioavailability and toxicological evaluation; computer applications; skill in the preparation of written protocols, technical reports, and their oral presentation. Familiarity with food and dietary supplement labeling and dietary application of supplements and food products both medical, consumer and dietary supplement/functional food products.

## **PROFESSIONAL EXPERIENCE (Cont'd.)**

- 06/77 - 11/84**      Manager, Biochemistry and Nutrition Section  
Department of Life Sciences, Travenol Laboratories, Inc., Morton Grove, IL 60053  
Directed seven to ten scientists having bachelor to Ph.D. degrees in various research and development projects. Studies were conducted in the following areas:
- IND and NDA biochemical and toxicological studies.
  - New product development.
  - In-depth studies in the area of lipid carbohydrate and protein nutrition.
  - Pharmacokinetics of intravenous products.
  - Bioavailability studies.
  - Biochemistry of endotoxins and their biological activities.
  - Models and metabolism of the critically ill.
  - Chronic renal failure.
  - Endocrinology.
- 10/76 - 06/77**      Assistant Professor, New York Medical College, New York, NY
- 06/74 - 10/76**      Research Instructor, Post-Doctoral Training  
New York Medical College, New York, NY  
Conducted research on the physiological mechanisms of absorption and transport of vitamins in normal and pathological states. Emphasis being placed on the isolation and purification of vitamin-binding and transport proteins. The development of radio and radioimmunoassays for these proteins and the use of these assays to elucidate the physiological mechanism of vitamin absorption, transport, and function within mammalian systems.
- 09/73 - 06/74**      Graduate Teaching Fellowship  
St. John's University, Jamaica, NY  
Direction and teaching of physiology laboratories.
- 09/71 - 09/73**      Graduate Teaching Assistantship  
St. John's University, Jamaica, NY  
Preparation and teaching of biology and physiology laboratories.
- 06/69 - 09/71**      U.S. Army Research Institute of Environmental Medicine  
Natick, MA  
Working in the Biochemistry Pharmacology Department, I took part in numerous studies on the effects of physiological stress, such as heat, cold, high altitude, nutritional, and sleep deprivation on the metabolism of various research animals as well as human test subjects.
- 06/68 - 06/69**      Graduate Teaching Assistantship  
Adelphi University, Garden City, NY  
Preparation and teaching of college biology laboratories.
- 06/67 - 09/67**      Research Scientist. New York State Health Department.  
Veterinary Science Division, Albany, NY  
Participated in studies working with all types of wildlife and domestic animals. Laboratory work involved the isolation and identification of viruses from these animals.

## **MEMBERSHIPS IN SOCIETIES**

American Association for the Advancement of Science  
American Society of Nutrition  
ASN Sustaining (Industrial Members) Chair and Executive Board Representative  
The American Society of Clinical Nutrition  
American Physiology Society  
Society for Complex Carbohydrates  
American Society of Parenteral and Enteral Nutrition  
Society of Toxicology, Midwest Regional Chapter  
American Society of Quality Control  
International Life Sciences Institutes (North American , Board Member)  
International Food Technologists

## **BUSINESS ASSOCIATIONS**

National Food Processors - Chairman, Regulatory & Scientific Affairs Council  
Grocery Manufactures of America  
Member, International Life Sciences - Board of Trustees  
Food Research Institute – Board of Advisors  
Member, Gerber Foundation - Board of Trustees  
Council of Responsible Nutrition – Board Member  
Consumer Health Products Association – Chairmen Vitamin and Mineral Task Group

## **AWARDS**

1. Patent Award, Travenol Laboratories, 1981.
2. Award for Contribution to Nutritional Product Development, Travenol Laboratories, 1982.
3. Technical Achievement Award for Nutritional Biochemistry, Travenol Laboratories, 1983 and 1984.
4. Patent Award, Travenol Laboratories, January 1984.
5. Three Patent Awards, Baxter Healthcare Corporation, 1988.
6. Milestone Inventive Award, Baxter Healthcare Corporation, 1988.

## **PATENTS**

1. Method for Determining Endotoxin Concentration. U.S. Patent #4,221,866 (1980).
2. Biological Extracts and Method for Making Same. U.S. Patent #4,376,819 (1983).
3. Methods and Composition for Parenteral Nutrition of Patients with Liver Disease. U.S. Patent #4,703,062 (1987).
4. Method for Directed Visceral Metabolism of Medium-Chain Triglycerides. U.S. Patent #4,678,807 (1987).
5. Intravenous Emulsions of Omega-3 Fatty Acid Esters. U.S. Patent #4,678,808 (1987).
6. Oral and Intravenous Diets for Cardiac Patients. U.S. Patent #4,920,098 (1991).
7. Use of Short Chain Fatty Acid Containing Lipids to Maintain Gastrointestinal Integrity and Function in Patients. U.S. Patent # 5919822 (1999).
8. Multivitamin/mineral formulation for cholesterol lowering and the prevention of cardiovascular disease. Patent Applied for 2006
9. Calcium sustained release mechanism of action, invention record 2007.

## HONORS

1. Invited speaker: National Conference on the Metabolism of Structured Lipids, National Institute of Health, Nov., 1984.
2. Invited speaker: International Symposium of Pediatric Pharmacology, Ahmedabad, India, Jan. 21-22, 1985. (Feeding the Premature Infant).
3. Invited speaker: Conference on the Health Effects of Polyunsaturated Fatty Acids in Seafoods. National Institutes of Health, Jun. 24-26, 1985.
4. Invited speaker: Association of Primate Veterinarians, Annual Meeting, Oct. 3-5, 1986. (Total Parenteral Nutrition)
5. Invited speaker: Conference on the Use of Nutrition in Critical Care Medicine, Jan. 1988.
6. Invited speaker: European Society of Enteral and Parenteral Nutrition, Aug. 1988. (Medium Chain Triglycerides)
7. Invited speaker: Cornell University, February 12, 1990. (Feeding the Elderly)
8. Invited speaker: University of Tennessee, 1993 (Industrial/Science)
9. Invited speaker: Child Health Foundation (Oral Rehydration)
10. Invited speaker: NFPA/USDA, Middle East Symposium November, 1994 (Shelf Life & Food Safety)
11. Invited speaker: Philippine Pediatric Association, 1994 (Infant Nutrition & Development)
12. Invited speaker: Perinatal Society of Singapore, 1994 (Infant Nutrition & Development)
13. Requested reviewer: American Journal of Clinical Nutrition, 1987-1990.
14. Requested reviewer: Metabolism 1988
15. Requested reviewer: Nutrition 1988-1996
16. Editorial Advisory Board: Journal of International Nutrition, 1993 – 1996
17. Publication Committee: Journal of Nutrition 1992-1993
18. Invited Speaker. Presidential Council of Science & Technology of Korea (Infant Development & Eating Readiness A Current View)
19. Invited Speaker. Johns Hopkins University School of Public Health, Research to Promote Childhood Nutrition Corporate-University Partnerships, 1995
20. Invited Speaker. University of Maryland School of Medicine, Research to Promote Childhood Nutrition Corporate University Partnerships, 1995

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| 21. | Invited Speaker.   | Institute of Food Technologists (IFT)<br>(How World Class Companies Enter<br>New Markets, 1995)                                |
| 22. | Invited Speaker    | National Institute of Health -<br>National Eye Institute<br>(Nutrition's Role in Eye Disease of the<br>Aging Population) 1998. |
| 23. | Invited Speaker    | GMA 1999 (The future of Dietary Supplements,<br>Science and Policy)  |
| 24. | Invited speaker    | Nutriton 2000 (Nutrition Role in Eye Health)   |
| 25. | Invited speaker    | Nutrition 2002 (Scientific Support for Product<br>Claims)  |
| 26. | Invited Speaker    | Experimental Biology 2003 (Carotenoids An<br>Industrial Perspective)   |
| 27. | Requested Reviewer | Journal of Parenteral and Enteral Nutrition, 2001-   |

## PUBLICATIONS

### ARTICLES

1. Starvation and Refeeding: Effects on the Periodicity of Tryptophan and Tyrosine Metabolism in Mice. Ralph Francisconi, Richard Cotter, and Milton Mager. *The Journal of Nutrition* 102: 597, 1972.
2. Solubilization, Partial Purification and Radioassay for the Intrinsic Factor Receptor from the Ileal Mucosa. Richard Cotter and Sheldon P. Rothenberg. *British Journal of Hematology* 34: 477, 1976.
3. Purification of the Intestinal Receptor for the Intrinsic Factor by Affinity Chromatography. Richard Cotter, Sheldon P. Rothenberg, and J.P. Weiss. *Biochemica et Biophysica Acta* 490: 19, 1977.
4. Alteration of Human Intrinsic Factor During Affinity Chromatography Purification Using Concentrated Guanidine. J.P. Weiss, S.P. Rothenberg, and R. Cotter. *FEBS Letters* 78(2): 275-278, 1977.
5. Formation of Transcobalamin II Vitamin B<sub>12</sub> Complex by Guinea Pig Ileal Mucosa in Organ Culture after *In vivo* Incubation with Intrinsic Factor Vitamin B<sub>12</sub>. Sheldon P. Rothenberg, J.P. Weiss, and Richard Cotter. *British Journal of Hematology* 40: 401, 1978.
6. Disassociation of the Intrinsic Factor - Vitamin B<sub>12</sub> Complex by Bile: Contributing Factor to B<sub>12</sub> Malabsorption of Pancreatic Insufficiency. Richard Cotter, Sheldon P. Rothenberg, and J.P. Weiss. *Scandinavian Journal of Gastroenterology* 14(5): 545-550, 1979.
7. Nonlinear Kinetic Analysis of the Elimination of Lipid Emulsion Administered Intravenously to Dogs. R. Cotter, L. Martis, F. Cosmas, H. Sargent, C.A. Taylor, W. Remis, S.K. Young, W.B. Rowe, and E.P. Woods. *Journal of Parenteral and Enteral Nutrition* 7(3): 244-250, 1983.
8. Comparison of the Elimination and Metabolism of 10% Travamulsion and 10% Intralipid Emulsion in the Dog. R. Cotter, L. Martis, F. Cosmas, H. Sargent, C.A. Taylor, S.K. Young, W.B. Rowe, and E.F. Woods. *Journal of Parenteral and Enteral Nutrition* 8(2): 140-145, 1984.
9. Comparison of the Elimination of 10 and 20% Travamulsion Lipid Emulsion from the Blood of Beagle Dogs. R. Cotter, L. Martis, F. Cosmas, C.A. Taylor, S.K. Young, W.B. Rowe, and R.C. Johnson. *The American Journal of Clinical Nutrition* 41(5): 994-1001, 1985.

10. Dietary Supplementation of Undernourished Rats with Soy or Safflower Oil: Effects of Myelin Polyunsaturated Fatty Acids. P. Divakaran, Thomas Pavlina, Robert C. Johnson, Richard Cotter, David Madsen, and Richard Wiggins. *Metabolic Brain Disease* 1(2): 157-164, 1986.
11. A Metabolic Comparison of a Pure Long Chain Triglyceride Lipid Emulsion (LCT) and Various Medium Chain Triglyceride (MCT)-LCT Combination Emulsions. R. Cotter, C.A. Taylor, R.C. Johnson, and W.B. Rowe. *The American Journal of Clinical Nutrition* 45: 927-939, 1987.
12. Fatty Acid Profiles in Response to Soybean Oil Lipid Emulsion Infusions in Essential Fatty Acid Deficient Miniature Swine. R. Cotter, R.C. Johnson, M. Tumbelson, J. Dexter, S.K. Young, C.A. Taylor, F. Cosmas, W.B. Rowe, and L. Lin. *Journal of Parenteral and Enteral Nutrition* 12(2): 121-126, 1988.
13. Competitive Effects of Long-Chain Triglyceride Emulsion on the Metabolism of Medium-Chain Triglyceride Emulsions. R. Cotter, R.C. Johnson, S.K. Young, L.I. Lin, and W.B. Rowe. *The American Journal of Clinical Nutrition* 50: 794-800, 1989.
14. Fasting Plasma Amino Acids in Elderly Men. D. Rudman, D.E. Mattson, A.G. Feller, R. Cotter, and R.C. Johnson. *The American Journal of Clinical Nutrition* 49: 559-566, 1989.
15. Utilization and Distribution of Medium-Chain Triglyceride Lipid Emulsions. R.C. Johnson, S.K. Young, R. Cotter, L.I. Lin, and W.B. Rowe. *The American Journal of Clinical Nutrition* 50: 794-800, 1989.
16. Medium-Chain Triglyceride Lipid Emulsion: Metabolism and Tissue Distribution. R.C. Johnson, S.K. Young, R. Cotter, L.I. Lin, and W.B. Rowe. *American Journal of Clinical Nutrition* 52:502-508, 1990.
17. Infant Development and Eating Readiness, A Current View. B.R. Carrath, J. Skinner, S.E. Morris, K. Houck, F. Coletta, M. McLeod and R. Cotter. *Proceedings of the 2nd International Symposium on Infant Nutrition*, 36-53, 1995.
18. Effect of Fruit Juices Supplemented with Soluble Fiber on Serum Lipids and Lipoproteins Among Hypercholesterolemic Subjects: A Randomized Double-Blind, Placebo Controlled Dose Ranging Study, *Journal of Nutrition* 128: 1927-1932, 1999.

## **BOOK CHAPTERS, REVIEWS, EDITORIALS, AND SYMPOSIA**

1. Comparative Dose Effects of Tritiated Thymidine on Cell Cycle Time in *Triturus viridesceus*. Richard Cotter. MS Thesis, Adelphi University, New York, 1969.
2. The Effect of Chronic Stress on the Circadian Rhythms of Selected Liver Enzymes in the Diabetic and Non-diabetic Mouse. Richard Cotter. Ph.D. Thesis. St. Johns University, New York, 1974.
3. Nutrient Deficiencies in Man: Vitamin B12. Sheldon P. Rothenberg and Richard Cotter. *Handbook Series in Nutrition and Food*. M. Rechcigl, ed. The Chemical Rubber Company, Cleveland, OH, p. 69, 1978.
4. Quantitative Detection of Endotoxin by Nephelometry. *Proceedings of the Symposium on "Biomedical Applications of Limulus Polyphemus."* John A. Dubczak, Richard Cotter, and Frank R. Dastoli. Alan R. Liss, Inc., New York 29: 403-414, 1979.
5. The Stability and Comparative Clearance of TPN Mixtures with Lipid. G. Hardy, R. Cotter, and R. Dawe. In: *Advances in Clinical Nutrition, Proceedings of the 2nd International Symposium*, I.D.A. Johnston, ed. M & P Press Limited, Lancaster, England, p. 241, 1983.
6. Metabolism of Medium-Chain Lipid Emulsion. Robert C. Johnson and Richard Cotter. *Nutrition International* 2(3): 150-158, 1986.
7. Rapid Changes in Hemostasis and Fatty Acid Profiles After Intravenous Infusion of a Marine Oil Lipid Emulsion to Various Animal Species. M. Ward, T. Pavlina, R. Butchin, R. Johnson, and R. Cotter. In:



Proceedings of the AOCS Short Course on Polyunsaturated Fatty Acids and Eicosanoids, W.E.M. Lands, ed. American Oil Chemists' Society, Champaign, IL, pp. 372-377, 1987.

8. Nutrition, Fluid Balance, and Physical Performance. R. Cotter. In: Drugs, Athletes, and Physical Performance, J.A. Thomas, ed. Plenum Publishing Corporation, New York, London, pp. 31-38, 1988.
9. The Evolution of Clinical Nutrition in the Critical Care of the Neonate. R. Cotter. Equine Veterinary Journal, Supp. 5: 17-18, 1988.
10. Medium-Chain Triglycerides: A Preclinical Perspective. R. Cotter and C. D'Alleinne. In: Perspectives in Clinical Nutrition, J. M. Kinney and P.R. Borum eds. Urban and Schwarzenberg, Baltimore-Munich, pp. 393-403, 1989.
11. Commercial Medium-Chain Triglyceride Emulsions: Where Are They? R. Cotter. Nutrition 6: 122, 1990.
12. The Evolving Story of Lipids as a Caloric Source. R. Cotter. Nutrition 8: 370, 1992.
13. Infant Feeding: Professional Recommendations vs. Parental Practices. R. Cotter. Pediatric Basics 60: 1, 1992.
14. Agents to Improve Gastrointestinal Integrity. R. Cotter. Current Opinions in Therapeutic Patents, 3: 359-365, 1993.
15. Solid Food Introduction and Food Allergy. R. Cotter. Pediatric Basics, 65:1,1993.
16. Osteoporosis (in) Encyclopedia of Food Science, 2<sup>nd</sup> Edition, (Ed) Fredrick J. Francis; R. Cotter, S. Trimbo, C. Dominguez, 1999.
17. Drug – Nutrient Interactions in the Critically Ill. J.A. Thomas, W.W. Stargel and R. Cotter In: Nutrient Support in the ICU, Pichard, C and Kudsk, K.A. eds. Springer, pp 151-165, 2000.
18. Interactions Between Foods Nutritional Supplements and Drugs. J. Thomas and R. Cotter in: Nutrition Toxicology, F.N. Kotsonis and Maureen Mackey ed. Taylor Francis, London and New York. Pp. 155 – 172, 2002.
19. Potential Benefits for the use of Minerals and Vitamin Supplements. R. Cotter, J.Morienes , L. Ellenbogen. In: Hand Book of Nutrition, Carolyn D.Berdanier ed. In Press 2007.
20. Nutrition and Eye Disease, J. Moreines, R. Cotter, L. Ellenbogen. In: Handbook of Nutrition, Carolyn Berdanier ed. In Press 2007.

## **ABSTRACTS**

1. Changes in Serum Triglycerides, Cholesterol and Glucose in Normal and Diabetic Rats During Hyperthermia. Daniel Frascella, Richard Cotter, and Ingo Kampa. American Zoologist 12: 669, 1976.
2. Partial Purification and Properties of Intrinsic Factor-Binding Receptor from Guinea Pig Ileum. Richard Cotter and Sheldon P. Rothenberg. Federation Proceedings 34: 475, 1975.
3. Purification of the Receptor for Intrinsic Factor from Guinea Pig Ileum using Affinity Chromatography. Richard Cotter, Sheldon P. Rothenberg, and J.P. Weiss. Clinical Research 24: 432, 1976.
4. The Demonstration that Intrinsic Factor (IF) - Vitamin B<sub>12</sub> (B<sub>12</sub>) Complex Undergoes Transition to Free B<sub>12</sub> During Absorption Using an In vivo-In vitro Culture System. Sheldon P. Rothenberg, J.P. Weiss, and Richard Cotter. Clinical Research 25: 516, 1977.
5. Effect of Pancreatic Enzymes and Pepsin on B<sub>12</sub>- Binding Proteins in Bile. Richard Cotter, Sheldon P. Rothenberg, and J.P. Weiss. Federation Proceedings 36: 594, 1977.
6. Nonlinear Elimination Kinetics of Intravenously Administered Lipid Emulsion in the Dog. Richard Cotter, Leo Martis, Frances Cosmas, and Harold Sargent. Federation Proceedings 38: 895, 1979.

7. Kinetic Analysis of the Elimination of an IV 10% Fat Emulsion from the Blood Stream of Cynomolgus Monkeys. Richard Cotter, Leo Martis, Frances Cosmas, Susan Young, Daniel Dalgard, Harold Sargent, and Eugene F. Woods. *Physiologist* 22: 23, 1979.
8. Hydrolase Activity in Limulus Lysate: Endotoxin Inactivation. R. Clark Brown, Richard Cotter, and W. Bruce Rowe. *Federation Proceedings* 39: 1025, 1980.
9. Comparison of the Elimination Kinetics of Intravenous Fat Emulsion: Bolus Injection vs Continuous Infusion. R. Cotter, L. Martis, H. Sargent, F. Cosmas, C.A. Taylor, Z.Y. Wang, S.K. Young, and W.B. Rowe. *Journal of Parenteral and Enteral Nutrition* 4: 604, 1980.
10. Lipid Emulsion in the Treatment of Essential Fatty Acid Deficiency. R.C. Johnson, R. Cotter, M. Tumbleson, J. Dexter, S.K. Young, Z.Y. Wang, W.B. Rowe, and E.F. Woods. *Federation Proceedings* 40: 923, 1981.
11. Method for Predicting the Elimination Kinetics of Lipid Emulsion During Continuous Intravenous Infusion. R. Cotter, L. Martis, H. Sargent, F. Cosmas, C.A. Taylor, Z.Y. Wang, S.K. Young, W.B. Rowe, and E.F. Woods. *Journal of Parenteral and Enteral Nutrition* 5: 363, 1981.
12. Comparison of the Elimination of Travenol Lipid Emulsion and Intralipid Emulsion from the Blood of Beagle Dogs. R. Cotter, L. Martis, F. Cosmas, H. Sargent, C.A. Taylor, Z.Y. Wang, S.K. Young, and W.B. Rowe. *Journal of Parenteral and Enteral Nutrition* 5: 579, 1981.
13. Comparison of the Elimination of 10% and 20% Travamulsion Lipid Emulsion from the Blood of Beagle Dogs. R. Cotter, L. Martis, F. Cosmas, C.A. Taylor, H. Sargent, S.K. Young, R.C. Johnson, W.B. Rowe, and E.F. Woods. *Journal of Parenteral and Enteral Nutrition* 6: 587, 1982.
14. Comparison of the Physical Stability and Metabolism of Lipid Emulsions Administered in Varying total Parenteral Nutrition Regimens. R. Cotter, R. Dawe, C.A. Taylor, S. Hall, F. Cosmas, J. Hedstrom, R.C. Johnson, and R. Coombes. *Journal of Parenteral and Enteral Nutrition* 6: 586, 1982.
15. Plasma and RBC Fatty Acid Profiles in Essential Fatty Acid Deficiency Neonatal Swine. R.C. Johnson, R. Cotter, and W.B. Rowe. *Proceedings of the 12th International Congress of Biochemistry*, p. 102, 1982.
16. Soybean Oil Lipid Emulsions as a Source of Essential Fatty Acids for the Treatment of Essential Fatty Acid Deficiency in Miniature Swine. R.C. Johnson, R. Cotter, W.B. Rowe, and M. Tumbleson. *Federation Proceedings* 42: 554, 1983.
17. Metabolic Comparison of a 20% Combination Long and Medium Chain Triglyceride Lipid Emulsion and a 20% Long Chain Emulsion. R. Cotter, R.C. Johnson, C.A. Taylor, T. Pavlina, F. Cosmas, and W.B. Rowe. *Federation Proceedings* 43: 848, 1984.
18. Competitive Interaction Between Medium and Long Chain Lipid Emulsions. S.K. Young, R.C. Johnson, R. Cotter, and W.B. Rowe. *Federation Proceedings* 43: 865, 1984.
19. Development of a Chronic Peritoneal Abscess Model in the Dog for Evaluation of Clinical Therapies. R. Raymond, R. Cotter, F. Cosmas, and D. Gibbons. *Federation Proceedings* 43: 325, 1984.
20. A Comparison of the Elimination of Four Different Formulations of Parenteral Lipid Emulsions from the Blood Streams of the Beagle Dog. R. Cotter, F. Cosmas, R.C. Johnson, W.B. Rowe, and L. Lin. *Federation Proceedings* 44: 1146, 1985.
21. Metabolism and Distribution of Medium Chain Triglyceride Lipid Emulsion. R.C. Johnson, S.K. Young, R. Cotter, and W.B. Rowe. *American Journal of Clinical Nutrition* 41: 846, 1985.
22. Diet Effect on Wound Healing. S.K. Young, R.C. Johnson, W. Hauck, and R. Cotter. *Federation Proceedings* 45: 1095, 1986.
23. Evaluation of Medium Chain Triglyceride (MCT) vs Long Chain Triglycerides (LCT) as a Calorie Source in Sepsis. R. Cotter, F. Cosmas, R.C. Johnson, and W.B. Rowe. *The American Journal of Clinical Nutrition* 43: 685, 1986.

24. Evaluation of the Elimination Kinetics of 3 Soybean-based Lipid Emulsions with Varying Phospholipid to Oil Ratios. R. Cotter, R.C. Johnson, D. Lear, and W.B. Rowe. *The American Journal of Clinical Nutrition* 46(3): 530, 1987.
25. Comparison of the Metabolism and Platelet Aggregation Affects of IV Lipid Emulsions Rich in  $\omega$ -3 or  $\omega$ -6 Lipids in African Green Monkeys. M. Ward, T. Pavlina, M. Truckenbrod, W.B. Rowe, and R. Cotter. *The American Journal of Clinical Nutrition* 47(4): 770, 1988.
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#### **Supported Studies:**

- 1) Reduction in Cardiac Risk Factors by an Indication Specific Dietary Supplement. Davidson, M. H., Malinow, M.R. et al. *Experimental Biology*, 2000
- 2) NIH Polyp Prevention Trials 2000 – the present
- 3) NIH Phisicans Health Study II 2000 – the present
- 4) NIH Age Related Eye Disease Study (AREDS I) 2000 – 2004
- 5) NIH AREDS II 2005 – the present
- 6) NIH Italian Eye Study 2000 – The present