*As experts on their funded research projects and the subsequent outcomes, grant outcomes are self-reported by the individual grant recipients.

**Abbott Nutrition Research Grant**

**Awardee: Jayshil Patel, MD**  
Grant Year: 2016 & 2017  
Grant Title: Early Enteral Nutrition in Septic Shock

**Publications**  
A manuscript related to this project have been submitted to and accepted by JPEN.

**Abstracts**  

**Awardee: Adam Rahman, MD, DABIM, FRCPC**  
Grant Year: 2015  
Grant Title: Phase II, multi-center, randomized control trial of beta-hydroxy-methylbutyrate in improving physical muscle function in nutritionally at risk elderly patients.

**Presentations:**  
   *Industry Sponsored: Baxter USA*
2. 01/15 Speaker, NUTRIC meeting at the American Society of Parenteral and Enteral Nutrition, Clinical Nutrition Week, Phase II randomized control of Beta-hydroxy-methylbutyrate in at risk critically ill patients.
3. 05/15 Chair, Symposium, Linking nutrition to function in hospitalized and critically ill patients, Canadian Nutrition Society, Annual Meeting, Winnipeg, Manitoba  
   09/15 Speaker, Meaningful measures of function in ICU survivors. Body Composition Protocol Development Meeting, Waterloo, Ontario
Awardee: Elsa Bou Ghanem, PhD
Grant Years: 2013, 2014
Grant Title: Vitamin E reverses age-associated susceptibility to Streptococcus pneumoniae lung infection

Manuscript:
*The study was featured by the press in Tufts Now; Dole Newsletter; MedIndia and Indo-Asian News Service

Abstract

2. Oral presentation; Vitamin E reverses age-associated susceptibility to Streptococcus pneumoniae lung infection (ASN’s Nutrition, infection and immunity session at the Experimental Biology Conference, Boston, MA April 2013)

3. Poster presentation; Vitamin E reverses age-associated susceptibility to Streptococcus pneumoniae lung infection (Nutritional Immunology RIS trainee poster competition at the Experimental Biology Conference, Boston, MA April 2013)

4. Oral presentation; Vitamin E boosts resistance to Streptococcus pneumoniae infection in aged mice by inhibiting hepxilin A3-mediated neutrophil recruitment across the lung epithelium. (Experimental Biology Conference, San Diego, CA April 2014)

5. Abstract; The Impact of Age and Vitamin E Supplementation on Streptococcus pneumoniae Virulence (American Society for Microbiology 114th General Meeting, Boston, MA May 2014)*
*The abstract was among the few chosen to be featured in the ASM press room

Awardee: Kenneth Ng, DO
Grant Year: 2012
Grant Title: Role of phytosterols and FXR signaling in parenteral nutrition-associated liver disease

Publications

2. Vlaardingerbroek H, Ng K, Stoll B, Benight N, Chacko S, Kluijtmans L, Kulik W, Squires E,


**Abstracts**


**Awardee: Gail Cresci, PhD, RD, CNSD**
Grant Years: 2010, 2011
Grant Title: Probiotics and the short-chain fatty acid butyrate: What is the mechanism in which these substrates prevent antibiotic associated diarrhea?

**Publication**

**Abstract**

**Awardee: Carrie Earthman, PhD, RD**
Grant Years: 2005, 2006
Grant Title: Clinical implications of gastric bypass surgery

**Publications**


**Abstracts**


Presentations
1. “Vitamin D Deficiency after Bariatric Surgery: Implications and Considerations”, 9th Annual Bariatric Education Days, The University of Minnesota Medical School, Bloomington, MN. June 2013


4. “Vitamin D Status Following Gastric Bypass Surgery”, City-Wide Endocrine Conference, Department of Medicine – Endocrine Division, University of Minnesota-Twin Cities. February 2013


8. “Body Composition and Vitamin D Status Following Gastric Bypass Surgery”, Section for Clinical Nutrition, Sahlgrenska, University of Gothenburg, Gothenburg, Sweden. June 2012


13. “Diminished Vitamin D Status In Obesity: Implications and Considerations in Gastric Bypass Surgery Patients”. Institute of Toxicology and Nutrition, School of Medicine, Zhejiang University, Hangzhou, China. May 2011

14. “Vitamin D Inadequacy in Obesity: Before and After Gastric Bypass Surgery”. University of Rome – Tor Vergata, Department of Medicine and Surgery, Rome, Italy. February 2011

15. “Clinical and Nutritional Implications of Gastric Bypass Surgery”, Department of Clinical Sciences, University of Kentucky, Lexington, KY February 2010

16. “Changes in Gastrointestinal Hormones and Leptin after Roux-en Y Gastric Bypass Surgery”, (Lauren Beckman, Doctoral Student Presented twice, for the Harry M. Vars Award competition), Clinical Nutrition Week 2010, Las Vegas, NV February 2010


20. “Methodologic Considerations for Monitoring Body Composition Changes after Gastric Bypass Surgery”, City-Wide Endocrine Conference, Department of Medicine – Endocrine Division, University of Minnesota-Twin Cities. April 2007


Awardee: Bruce Grossie, PhD
Grant Years: 2003, 2004
Grant Title: Response of an inflammatory site to arginine modified parenteral nutrition

Abstract
Awardee: James Scolapio, MD
Grant Year: 2001
Grant Title: Gastric secretory and motor transit responses in patients with short bowel syndrome

Publications


Awardee: Kelly Tappenden, PhD, RD
Grant Years: 1999, 2000
Grant Title: Prevention of bowel ischemia with optimized nutrition

Publications


Baxter Grant for Parenteral Nutrition Research

Awardee: James Davison, PhD
Grant Year: 2018
Grant Title: Modulation of organ injury by Faecalibacterium prausnitzii in critical illness

Abstracts


Awardee: Gregory Guthrie, PhD
Grant Year: 2016, 2017
Grant Title: Synergy between phytosterols and inflammation to antagonize nuclear hormone receptor function in PNALD

**Abstracts**

1. *Phytosterols Synergize with Endotoxin to Augment Inflammation in Kupffer Cells but Alone Have Limited Direct Effect on Hepatocytes*, CNW2017 submission. Accepted for Vars Candidacy.

**Presentations:**


2. “Phytosterols have weak direct effect on hepatocyte expression but enhance Kupffer Cell activation by endotoxin”, (oral and poster presentation for Emerging Leader in Nutrition Science competition) Experimental Biology Conference, Chicago, Illinois, April 2017

**Awardee: Ajay Jain, MD**

Grant Year: 2014-2015

Grant Title: Novel Interventions modulating the FXR-FGF19 Axis and the TGR5-GLP Axis as Therapeutic Approaches for TPN Associated Pathologies.

**Publications:**


**Abstracts:**

1. Premier Paper Session, oral presentation, Vars candidate CNW2016. Preserved gut microbial diversity accompanies upregulation of TGR5 and hepatobiliary transporters in bile acid treated animals on Total Parenteral Nutrition (TPN). Ajay K. Jain, MD; Abhineet Sharma, student; Sumit Arora, student; Keith S. Blomenkamp, Research Asst; Ik Jun, Student; Robert Luong, Student; David Westrich, student; Asyush Mittal, student; John P. Long, PhD; Jeffrey Teckman, MD. JPEN J Parenter Enteral Nutr, Jan 2016; vol. 40, 1:pp. 115-144.


Awardee: Matthew Lungren, MD
Grant Year: 2012
Grant Title: Bacteriophage antimicrobial-lock technique for Staphylococcus aureus venous parenteral nutrition catheter-related infection: an in vivo model evaluation

Publication

Abstract

Fresenius Kabi Parenteral Nutrition Research Grant

Awardee: Darla Shores, MD
Grant Year: 2016
Grant Title: Biomarkers of intestinal injury in infants

**Publications:**

**Abstract**

1. Serum detection of ingested proteins in mice with necrotizing enterocolitis. CNW2017 submission.
2. Post-operative Feeding Guidelines for Infants at risk of intestinal Failure. CNW 2017 submission.

**Awardee: Hongyu Xue, MD**

Grant Years: 2013, 2014

Grant Title: Modulating cardiotoxicity and anti-cancer efficacy related to anthracycline chemotherapy by glutamine and n-3 PUFAs

**Publication**


**Abstract**


**Nestlé Nutrition Institute Maurice Shils Grant**

**Awardee: Hannah Piper, MD**

Grant Year: 2018

Grant Title: Targeted Probiotic Therapy to Improve the Gut Microbiota and Growth in Children with Short Bowel Syndrome.

**Publications**


**Abstracts**

Awardee: Kate Walton, PhD
Grant Year: 2015
Grant Title: Towards therapeutic strategies to improve patient outcome with total parenteral nutrition: clues from cell signaling networks

Manuscripts


Manuscripts in Preparation


2) Katherine D. Walton, Sha Wang, and Deborah L. Gumucio: Review: Early intestinal villus morphogenesis. WIREs, invited review for January 2017 submission.

Abstracts


Awardee: Crystal Levesque, PhD
Grant Years: 2013, 2014
Grant Title: A pilot study of systemic glucagon-like peptide combined with oral epidermal growth factor and characterization of gut microbiome in short bowel piglets with and without ileum

Publications:

Abstract

Awardee: Joseph Boullata, PharmD, BCNSP
Grant Years: 2011, 2012
Grant Title: Drug compatibility and stability in enteral nutrition

Abstracts


Publications

Awardee: Diana Mager, PhD, RD
Grant Years: 2009, 2010
Grant Title: Altered postprandial lipid metabolism as a mediator to hepatic steatosis in overweight and obese children with non-alcoholic steatosis (NASH)

Publications


**Abstracts**

1. Mager DR, Mazurak, V, Proctor, S, Gilmour S, Yap J. Dietary intake may influence essential fatty acid and long chain polyunsaturated fatty acid expression in children with nonalcoholic fatty liver disease (NAFLD). AASLD Meeting, Washington DC. *Hepatology* 2013 58:817A.


**Presentations**


3. Invited Speaker: Childhood NAFLD in Canada. School of Public Health, Xinjiang Medical University, Xinjiang Autonomous Region, People’s Republic of China, June 2010.


**Further Funding**

1. Alberta Diabetes Institute
2. Canadian Liver Foundation
3. Canadian Institutes of Health Research

**Nestlé Health Science Enteral Nutrition Research Grant**

Awardee: Zudin Puthucheary PhD, MBBS, BMedSci., MRCP, EDICM, D. UHM, PGCME, FHEA, FFICM

Grant Years: 2018

Grant Title: Assessment of differential amino acid uptake and metabolomics profiles between intermittent and continuous feeding protocols in the critically ill: an IVC trial (NCT02358512)
Publications
Manuscripts related to this project are in progress with the Journal of Respiratory and Critical Care Medicine.

Maurice Shils Grant
Jointly sponsored by Baxter Healthcare and Nestlé Nutrition Prior to 2010

Awardee: Barbara Stoll, PhD
Grant Years: 2007, 2008
Grant Title: Parenteral nutrition and hepatic insulin resistance in neonatal pigs

Publications


Abstracts


Awardee: Catherine Crill, PharmD
Grant Year: 2005
Grant Title: Effect of parenteral nutrition light exposure on urinary markers of oxidative stress in preterm infants
Abstract

Awardee: Steven Steiner, MD
Grant Year: 2005
Grant Title: Metabolic response to Infliximad in pediatric ulcerative colitis

Publication

Abstract

Awardee: Hua Yang, MD, PhD
Grant Year: 2004
Grant Title: IL-7 modulation of intraepithelial lymphocytes with TPN

Publications


Awardee: Paul Wischmeyer, MD
Grant Year: 2002
Grant Title: Effect of glutamine administration to the intact rat on myocardial ischemia and reperfusion injury
**Publications**


**Awardee: N. Joseph Espat, MD**
Grant Years: 2000, 2001
Grant Title: Proposal to investigate anti-inflammatory therapies (Omega-3 fatty acids and cyclo-oxygenase II inhibitors in the treatment of cancer-associated cachexia

**Publications**


**Awardee: Deborah Swartz-Basile, PhD**
Grant Years: 1998, 1999
Grant Title: Retinoid modulation of intestinal epithelial adaptation

**Publications**


**Awardee: Malcolm Robinson, MD**
Grant Years: 1996, 1997
Grant Title: Sepsis, malnutrition and liver dysfunction: The role of glutathione

Publications

Awardee: W. Scott Helton, MD
Grant Years: 1994, 1995
Grant Title: Nutritional modulation of macrophage function

Publications

Abstracts

Presentations
5. Frontiers in Antioxidant Research, Co-Chair, A.S.P.E.N. Research Workshop, January 18, 1998, Orlando Florida


Further Funding
1. CNRU, University of Washington
2. NIH R-13, R-29, R03
3. University of Illinois
4. Ross Labs
5. American Cancer Society

Norman Yoshimura Grant by B. Braun and the Aesculap Academy

Awardee: Kenneth Christopher, MD
Grant Year: 2015
Grant Title: Nutritional metabolome in critical illness

Publications


Abstract
1. Premier Paper Session, CNW16, Austin Texas. Oral presentation: Plasma Metabolome Alteration in Critical Illness According to Nutrition Status: a Cohort Study. Kris Mogensen, MS, RD, LDN, CNSC; Jessica Lasky-Su, PhD; Angela Rogers, MD; Rebecca Baron, MD; Laura Fredenburg, MD; James Rawn, MD; Malcolm Robinson, MD; Anthony Massaro, MD; Augustine Choi, MD; Kenneth Christopher, MD. *JPEN J Parenter Enteral Nutr*, January 2014; vol. 38, 1: pp. 124-149.

**Awardee: Christy Lawson, MD**  
Grant Years: 2012, 2013  
Grant Title: Cross-talk between insulin and angiotensin in burn trauma

**Abstract**  

**Awardee: Gerdien Ligthart-Melis, PhD**  
Grant Years: 2009, 2010  
Grant Title: The contribution of glutamine to citrulline and arginine synthesis, when alanyl-glutamine is supplied in an enteral dose of 0.5g/kg, in critically ill patients

**Abstracts**  


**Awardee: Renee Stapleton, MD**  
Grant Year: 2006  
Grant Title: Anti-inflammatory effects of enteral n-3 fatty acids in patients with acute lung injury

**Publications**  


**Abstracts**


**Presentations**


3. Visiting Professor, University of Pennsylvania Perelman School of Medicine, Division of Pulmonary, Allergy, and Critical Care Medicine, “Omega-3 Fatty Acids for the Treatment of Acute Lung Injury.” February 2011.


**Further Funding**

1. NIH
2. University of Vermont/Fletcher Allen Health Care
3. American Heart Association
4. Canadian Institutes of Health
5. Center of Biomedical Research Excellence

**Awardee: Julian Spallholz, PhD**

Grant Year: 2005

Grant Title: Selenium dietary supplements in the mitigation of arsenicosis and associated skin cancers
Abstract

Awardee: David Foster, PharmD
Grant Year: 2004
Grant Title: The effects of green tea polyphenols on intestinal hyperpermeability

Publication
1. Foster DR, Sowinski KM, Chow HHS, Overholser BR. Limited sampling strategies to estimate exposure to the green tea polyphenol, epigallocatechin gallate, in fasting and fed conditions. Therapeutic Drug Monitoring. 2007;29:835-842.

Further Funding
American College of Clinical Pharmacy

Awardee: Roland Dickerson, PharmD
Grant Year: 2002
Grant Title: Drug compatibility and stability in enteral nutrition

Publications


Awardee: Alexander Dzakovic, MD
Grant Year: 2001
Grant Title: Protective effect of increased hepatic glutathione during TPN

Publication

Abstracts


**Foundation Grants**

**AS-PEN Rhoads Research Foundation Grant**

**Awardee: Hannah Piper, MD**
Grant Year: 2017
Grant Title: Targeted Probiotic Therapy to Improve the Gut Microbiota and Growth in Children with Short Bowel Syndrome.

**Publications**

**Abstracts**

**C. Richard Fleming Grant**

**Awardee: Lisa Martin, RD, MSc**
Grant Year: 2017
Grant Title: Diagnostic criteria for malnutrition in overweight and obese cancer patients

**Abstracts:**

**Awardee: Beth Lyman (Ashley Hayden)**
Grant Year: 2015
Grant Title: Enteral Feeding Set Handling Techniques: A comparison of bacterial growth, time, labor, and material costs
Manuscripts:
1. Lyman, B. *Enteral Feeding Set Handling Techniques: A Comparison of Bacterial Growth, Nursing Time, Labor, and Material Costs*. Published in NCP September 2016

Abstracts:
CNW16 abstract presented:

Awardee: Michele Nicolo, MS, RD, CDE, CNSC
Grant Year: 2014
Grant Title: Clinical outcomes in critically ill patients associated with protein delivery

Publication:

Abstract

Allison Blackmer, PharmD, BCPS
Grant Year: 2012
Grant Title: Neurodevelopmental outcomes of pediatric patients treated with modified intravenous lipid emulsion for the treatment and/or prevention of parenteral nutrition associated liver disease

Publication

Abstract

Awardee: Yongjia Feng, PhD
Grant Year: 2011
Grant Title: Modulation of glucagon like peptide-2 and epidermal growth factor signaling in intestinal epithelial cell proliferation and apoptosis in a TPN mouse model

Publications


Abstracts


Awardee: Matthew C. Koopman, MD
Grant Year: 2009
Grant Title: What is the optimal time to administer GLP-2 in SBS?

Publication

Abstract

Awardee: Alisha Rovner, PhD
Grant Year: 2004
Grant Title: Bone health in children with sickle cell disease.

Publication

Awardee: Robert Chang, MD
Grant Year: 2003
Grant Title: Evaluation of serial enteroplasty: A novel bowel lengthening procedure

Publication

Awardee: Jennifer Muir Bowers, PhD, RD
Grant Year: 2002
Grant Title: Cytokine response in malnutrition and severe fatigue related to coccidioidomycosis

PhD Dissertation
Cytokine Response in Malnutrition and Severe Fatigue Related to Coccidioidomycosis.
University of Arizona, Wanda Howell, PhD 2002.

Awardee: Rose Ann DiMaria-Ghalili, PhD, RN, CNSC, FASPEN
Grant Year: 2000
Grant Title: Comparison of weight changes in older and younger persons undergoing CABG surgery

Publications


**Abstracts**


**Presentations**


4. DiMaria-Ghalili RA. *Nutrition in Older Adults.* Dartmouth-Hitchcock Medical Center in Lebanon, NH, 2009.

5. DiMaria-Ghalili RA. *A model to examine factors associated with postoperative weight changes and health outcomes in older CABG patients.* 61st Annual Scientific Meeting of


Media Mention

Further Funding
American Nurses Foundation

Awardee: Philip Pearson, MD
Grant Year: 2000
Grant Title: The role of leptin in intestinal adaptation after massive small bowel resection
Publications


Daniel H. Teitelbaum Grant
Awardee: Liam McKeever, MS, PhD(c), RDN
Grant Year: 2017
Grant Title: Feeding the Critically Ill During Phases of Altered Redox Status (FEDOX): a Prospective Randomized Trial

Publications

Small Research Project Grant
Awardee: Nicole Gavin, PhD
Grant Year 2015
Grant Title: The safety of parenteral nutrition regarding microbial growth and vascular catheter-related infection (The FACT Study)

Manuscripts:

Abstracts:
CNW2017, 3 submissions:

CONTROL ID: 2600946
TITLE: Does a dedicated lumen for parenteral nutrition administration reduce the risk of catheter-related blood stream infections? A systematic literature review.

CONTROL ID: 2595964
TITLE: A dynamic model for the investigation of touch contamination in intravascular device-related infections
CONTROL ID: 2600934

TITLE: Does parenteral nutrition increase the risk of vascular catheter-related blood stream infection? A systematic literature review.

Awardee: Allison Buti – Shapiro, PhD, MPH
Grant Year: 2014
Grant Title: Investigating the Mediating Roles of Sirtuin 1 and PPAR-γ in the Relationship between Maternal Dietary Niacin Intake and Infant Adiposity

Manuscripts:
Accepted Feb 2016

Submitted


Abstracts:
Poster Presentations:


Oral Presentations:
3. American Diabetes Association 75th Scientific Sessions (June 2015). Nicotinamide promotes adipogenesis in umbilical cord-derived mesenchymal stem cells and corresponds to neonatal adiposity: The Healthy Start study Shapiro ALB, Boyle KE, Dabelea D, Patinkin Z, Glueck D, Barbour LA, Norris J, Friedman JE

Awardee: Rebecca Persinger-Soultanakis, MS, RD
Grant Year: 2001
Grant Title: Evaluation of catabolic and anabolic cytokines in skeletal muscle tissue from cachectic individuals with chronic heart failure (CHF)

Publication

Awardee: Bobbi Langkamp-Henken, PhD
Grant Year: 1998
Grant Title: Effect of dietary supplementation of arginine on immune function in nursing home residents with pressure ulcers

Publications


Abstract

Further Funding
NIH
**Awardee: Charlene Compher, PhD, RD**

Grant Year: 1997  
Grant Title: Effects of intracolonic butyrate infusion on aberrant crypt foci in male fischer 344 rat exposed to azoxymethane.

**Publication**


**PhD Dissertation**


**Awardee: Catherine Klein, PhD, RD**

Grant Year: 1997  
Grant Title: Magnesium and zinc balance in critically ill patients treated with continuous renal replacement therapy.

**Publications**


Abstracts


Presentations


7. “Overfeeding Macronutrients to Critically Ill Adults: Metabolic Complications” teleconference in the “Nutrition Updates” series for the University of Texas Health Science Center at San Antonio, San Antonio, Texas. Wednesday, June 16, 1999.


Media mention

Further Funding
Dietitians in Nutrition Support-American Dietetic Association

Awardee: Kelly Tappenden, PhD, RD
Grant Year: 1996
Grant Title: The effect of SCFA supplemented TPN on multi-organ response to intestinal resection

Publication

Awardee: Stephanie Brooks, MS, RD
Grant Year: 1995
Grant Title: Comparison of muscle function testing in HIV infected subjects and non-infected
controls as an index of nutritional status.

Publication

Awardee: Deborah Andris, RN, MS, ARNP
Grant Year: 1994
Grant Title: The impact of antibiotic lock on microbial surface colonization of silicone catheters

Publications

Awardee: Carol Braunschweig, PhD, RD
Grant Year: 1994
Grant Title: The metabolic role of zinc in acute phase response

Publications

Further Funding
1. NIH
2. American Cancer Society
3. University of Illinois at Chicago

Awardee: Lisa Freeman, PhD, DVM
Grant Year: 1994
Grant Title: The role of cytokines in canine cardiac cachexia

Publication

**Abstracts**
