**Nicolaas E. Deutz, M.D., Ph.D.**

**University of Arkansas for Medical Sciences**

**Department of Geriatrics, College of Medicine**

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| Education |  |
| 1. Resident, Department of Radiology, University of Amsterdam, The Netherlands | Feb 1988–Jun 1988 |
| 1. Research Fellowship at Department of Experimental Medicine, University of Amsterdam (Ph.D.) | May 1984–Jan 1988 |
| 1. Resident at the Neurosurgical Department, University of Amsterdam, The Netherlands | Sep 1983-Apr 1984 |
| 1. Medical School, University of Amsterdam, The Netherlands (M.D.) | Sep 1976–Sep 1983 |
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| **Positions** |  |
| 1. Professor, Dept. of Geriatrics, College of Medicine, University of Arkansas for Medical Sciences, Little Rock, Arkansas | Dec 2006–present |
| 1. Professor, Department of Dietetics and Nutrition, College of Health Related Professions, College of Medicine, University of Arkansas for Medical Sciences, Little Rock, Arkansas | Jan 2007–present |
| 1. Professor, Department of Pediatrics, College of Medicine, University of Arkansas for Medical Sciences, Little Rock, Arkansas | July 2007–present |
| Visiting Professor of Center for Hepatology, University College London, United Kingdom | Jan 2001–2006 |
| Associate Professor, Department of Surgery, Maastricht University, The Netherlands | Jul 2000–Nov 2006 |
| Assistant Professor, Department of Surgery, Maastricht University, The Netherlands | Jul 1988–Jun 2000 |
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| Honors |  |
| 1. Sir David Cuthbertson Lecture. Amino Acids between and within Organs, ESPEN – 2007 Prague, Czech Republic | Sep 2007 |
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| Service/Leadership |  |
| 1. Editor-in-Chief of the Elsevier Journals Clinical Nutrition and e-SPEN Journal, International | 2005-present |
| 1. Director of LC-MS Laboratory. Center for Translational Research on Aging & Longevity. Dept. of Geriatrics, College of Medicine, University of Arkansas for Medical Sciences, Little Rock, Arkansas | 2007–present |
| 1. Director of animal and clinical research lab in the field of Clinical Nutrition and Metabolism. Center for Translational Research on Aging & Longevity (CTRAL). Dept. of Geriatrics, College of Medicine, University of Arkansas for Medical Sciences, Little Rock, Arkansas | 2007–present |
| 1. Director of animal and clinical research lab in the field of Nutrition and Metabolism, supervising 4-6 highly trained research assistants on a daily basis. Research was done studying gut, liver, muscle, kidney and brain metabolism in rats, pigs and (transgenic/knockout) mice and all necessary operations and techniques were done or managed. In addition, research was done in healthy volunteers and patients with various disease states. We have supported most of the animal and human research projects on protein and amino acid metabolism carried out at the Maastricht University Research Institute NUTRIM, The Netherlands | 1988-2006 |
| 1. Director of the Metabolic Research Center, supervising 4 technical assistants. In the laboratory, determinations are done on a 24h basis using the following equipment: 3 HPLC, 1 FPLC, 1 Mira, 4 LC-MS systems (3 LCQ, 1 TSQ). The Center has supported most of the research on protein and amino acid metabolism at the Maastricht University Research Institute NUTRIM (collaboration with the departments of Surgery, Medicine, Pulmonology, Pediatrics, Psychology) and was actively involved in research projects carried out abroad London, Paris, Stockholm | 1988-2006 |
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| **Professional Affiliations** |  |
| 1. National Institute on Health, Review Panel member for Study Sections:   ZRG1 EMNR-C (58)R, ZDK1 GRB 2 J2 1, CLTR (MA), CLTR (JA) | 2008-present |
| 1. Member of the scientific committee of the European Society of Parenteral and Enteral Nutrition (ESPEN), International | 2008-present |
| 1. Chairman of the scientific committee of the European Society of Parenteral and Enteral Nutrition (ESPEN), International | 2000–2004 |
| 1. Councilor American Physiology Society, E&M Section | 2003–2007 |
| 1. Member of the scientific committee of the European Society of Parenteral and Enteral Nutrition (ESPEN), International | 1998-2000 |
| 1. Treasurer of the Dutch section of Nutrition and Metabolism of the Dutch Society of Gastroenterology, The Netherlands | 1998-2003 |
| 1. Secretary of the NWO (Netherlands Scientific Organization) group Liver Research, The Netherlands | 1993-1998 |
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| **Teaching/Mentoring** |  |
| 1. Teaching 2 (two) Assistant Professors, -4 (four) PhD students and 12 (eleven) Graduate Students. Center for Translational Research on Aging & Longevity (CTRAL). Dept. of Geriatrics, College of Medicine, University of Arkansas for Medical Sciences, Little Rock, Arkansas | 2007–present |
| 1. Supervise PhD student DA van Waardenbrug. Protein metabolism and nutritional requirements in critically ill children. Thesis Defense Maastricht University | 2008 |
| 1. Supervise PhD student YLJ Vissers. Peri-operative arginine metabolism in cancer**.** Thesis Defense Maastricht University | 2008 |
| 1. Supervise PhD student L Lutgens. Effects of radiation of gut function. Thesis Defense Maastricht University | 2005 |
| 1. Supervise PhD student SWM Olde Damink. The effects of blood protein on human metabolism. Thesis Defense Maastricht University (Cum Laude) | 2005 |
| 1. Supervis PhD student R Jalan. Hepatic Encephalopathy and brain function. Thesis Defense Maastricht University (Cum Laude) | 2005 |
| 1. Supervise 4 PhD and 2-4 PhD students in Experimental and Clinical Research. Maastricht, The Netherlands | 2004–2006 |
| 1. Supervise PhD student CKL Lieben. Serotonin and Behaviors: animal studies applying the method for acute tryptophan depletion. Thesis Defense Maastricht University | 2004 |
| 1. Supervise PhD student MM Hallemeesch: Nitric Oxide and the gut. Thesis Defense Maastricht University | 2001 |
| 1. Supervise PhD student WJ de Jonge: Implications of arginine deficiency for growth and organ development. Thesis Defense University of Amsterdam | 2001 |
| 1. Supervise PhD student MJ Bruins: Nitric Oxide and the gut. Thesis Defense Maastricht University | 2001 |
| 1. Supervise PhD student HMH van Eijk. Analytical aspects to the study of amino acid metabolism. Thesis Defense Maastricht University | 1999 |
| 1. Co-organizer of the two week international post-graduate course "ESPEN Advanced Course on Clinical Nutrition”, organized for students coming from all over Europe and abroad, Maastricht/Bonn, International | 1998-2003 |
| 1. Co-Organizer of the post-graduate course "In vivo use of isotopes", The Netherlands | 1996-2000 |
| 1. Supervisor PhD student CHC Dejong: Ammonia and glutamine metabolism during liver failure: Studies in rats. Thesis Defense Maastricht University | 1993 |
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| Certifications and Licensure |  |
| 1. Physician Nutrition Specialist, ABPNS, USA | Dec 2008 - present |
| 1. Medical Physiologist | 2000 - present |
| 1. Medical Doctor The Netherlands (BIG #69020621101) | Sep 1988 - present |
| 1. Laboratory Animal Medicine (DLAM: #1850-07). | Jan 2007 - present |
| 1. Arkansas State Medical License (#E-5637) | Jun 2008 - present |
| 1. Arkansas Department of Health (#AR050407-1) | Jan 2008 - present |
| 1. DEA Certification (#RD0361648) | Jan 2008 - present |
| Physician Nutrition Specialist (#2080350) | Dec 2008 - present |
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| Professional Memberships and Activities |  |
| 1. Member of Clinical Nutrition Week 2010 Committee (ASPEN) | 2009 |
| 1. Member of Scientific Committee ESPEN | 2005 – present |
| 1. Member of the American Society of Parenteral and Enteral Nutrition (ASPEN) | 2008 – present |
| 1. Member of the European Society of Clinical Nutrition and Metabolism (ESPEN) | 1989 – present |
| 1. Member of the American Physiological Society | 2000 – present |
| 1. Member of the American Society of Nutrition | 2007 – present |
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| Committee Assignments and Administrative Services |  |
| 1. Clinical Trial Review Committee, Department of Health and Human Services | 2011 |
| 1. Committee Clinical Research, University of Arkansas for Medical Sciences | Mar 2011-present |
| 1. University of Arkansas for Medical Sciences, Research Council | 2011-present |
| 1. University Hospital Institutes, The French National Research Funding Agency ANR, Paris, France | January 2011 |
| 1. Member Data and Safety Monitoring Board (DSMB), National Institute of Aging (NIA) For DSMB Members participating in oversight of SBIR Grant “Nutritional Intervention for Age-Related Muscular Function and Strength Losses” PI Dr. John A. Rathmacher, 1 R44 AG034722-01A1. | May 2010 -present |
| 1. University of Arkansas for Medical Sciences, Dept. of Geriatrics, RIOA Vertical Expansion Space Committee | 2009-present |
| 1. University of Arkansas for Medical Sciences, Medical Student Interviews | 2009 |
| 1. Foundation for Liver Research, External Peer Reviewer | 2008 |
| 1. Government based NWO (Netherlands Scientic Organization) | 1990-2001 |
| 1. ESPEN research fellowships, International | 1996 - present |
| 1. European commission program on Research applications, International | 2001 |
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| Editorial Boards |  |
| Editor-in-Chief of the Elsevier Journals “Clinical Nutrition” and e-SPEN Journal, International | 2005 – present |
| American Journal of Physiology - Endocrinology and Metabolism | 2008 - present |
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| Ad Hoc Peer Reviewer Journals |  |
| Am J Physiology |  |
| J Physiology |  |
| Lancet |  |
| PLOSone |  |
| Clinical Nutrition and e-SPEN |  |
| Am J Clin Nutrition |  |
| J Par Ent Nutrition |  |
| Metabolism |  |
| Br. J Nutrition |  |
| Food, Science and Nutrition |  |
| Nutrition and Metabolism |  |
| Annual Review Nutrition |  |
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| Educational Activities |  |
| Arkansas Geriatric Education Center (AGEC) NUTRITION & AGING XXVI: Nutrition in Chronic Disease | Sep 2011 |
| UAMS, College of Medicine, Geriatrics Grand Rounds | Aug 2011 |
| 1. Abbott Nutrition Journal Writing Workshop, Writing a Good Nutrition Manuscript That Gets Published. Insights on Publication/Common mistakes in submitted manuscripts that lead to rejection/Discussion on published papers | Jul 2011 |
| 1. Reynolds Institute on Aging Advisor Board, Everything I Wanted to Know About Eating Right and Staying Fit, Little Rock, Arkansas | May 2011 |
| 1. Arkansas Research Alliance "Healthy Arkansas" Research Conference to initiate UAMS-related Research Companies | Apr 2011 |
| 1. UAMS, College of Medicine, Geriatrics Grand Rounds | May 2009 |
| 1. Faculty member: Annual NIDDK/MMPC Course on Isotope Tracers in Metabolic Research | 2008-present |
| 1. Organizer of the International ESPEN Post-Graduate Course in Tracer Methodology in Metabolism. | 2003–present |
| 1. Organizer of the Post-Graduate education for PhD Students in NUTRIM on “Protein and amino acid metabolism in health and disease: methodology and interpretation. | 2001 |
| 1. Organizer of the Post-Graduate education for PhD Students in NUTRIM on “Analytical techniques”. | 1999-2004 |
| 1. Organizer of the ESPEN European Intensive Course on Clinical Nutrition (Maastricht/Bonn, 2 weeks). | 1998–2002 |
| 1. Organizer of the Post-Graduate education for PhD Students in MENU Education school on “In vivo use of isotopes”. | 1994–1998 |
| 1. Post-Graduate education for PhD Students in MENU Education school on “Regulation of metabolism”. | 1994–1998 |
| 1. Tutor for several courses for Medical students. | 1991–2006 |
| 1. Supervisor for Medical students and students Health sciences. | 1988–2006 |
| 1. Counselor for Medical students. | 1988–1994 |
| 1. Annual oral presentations for students Medicine and Health Sciences, University Maastricht on “Gut and liver metabolism”. | 1988–2001 |
| 1. Presenting and tutoring during the Erasmus/ESPEN European Intensive Course on Clinical Nutrition in Maastricht. | 1988–1996 |
| 1. Presenting lectures on nutrition and metabolism at the scientific nutritional training course in Maastricht. | 1988–1996 |
| 1. Supervising medical students in scientific research, University of Amsterdam. | 1983–1988 |
| 1. Teacher Neurology at the Academy of Physiotherapy, “J. van Essen", Amsterdam, The Netherlands. | 1979-1981 |
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| **Grant and Contract Awards** |  |
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| **Current Projects** |  |
| 1. 1 P30 AG028718−01A2 National Institute on Health - Arkansas Claude Pepper Older Americans Independence Center at UAMS – RC2 Core. Role in project: Core Leader | 2011-2016 |
| 1. 3R01GM084447-03S1 – National Institute on Health Optimal Amino Acid Nutrition in Sepsis – Collaborative Research with Karolinski Institute. Role in Project: Co-PI | 2010-2012 |
| 1. 3R01GM08447-02S1 National Institute on Health – Optimal Amino Acid Nutrition in Sepsis – Equipment – LCMS detector. Role in Project: Co-PI | 2010-2011 |
| 1. S10 - RR027047 National Institute of Health - TSQ Vantage Bundle with Acquity UltraPerformance LC. Role in project: PI | 2010-2011 |
| 1. Arkansas Center for Clinical and Translational Research/ National Institute on Health - Development of an innovative panel of methods to measure intestinal macronutrient digestion, absorption, and function. Role in project: PI | 2010-2012 |
| 1. R01 - HL095903 National Institute of Health - Eicosapentaenoic acid and protein modulation to induce anabolism in COPD. Role in project: Co-PI | 2009-2013 |
| 1. R01 - GM084447 National Institute of Health – Optimal Amino Acid Nutrition in Sepsis. Role in project: PI | 2008-2012 |
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| **Projects Under Review** |  |
| 1. RO1- National Institute of Health: “Dietary amino acid supplementation to restore protein and arginine metabolism during and following pulmonary exacerbation in Cystic Fibrosis and the effects on clinical outcome”. Role on project: Co-PI |  |
| 1. American Institute Cancer Research: “Role of obesity on the postoperative response of arginine metabolism in cancer”. Role on project: PI |  |
| 1. UAMS Medical Research Endowment Fund: “Single leg exercise as a model to study metabolic changes underlying muscle wasting and dysfunction in patients with Chronic Obstructive Pulmonary Disease”. Role on project: Co-I |  |
| 1. BARDA (BAA-11-100-SOL-00009) Advanced Development of Automated High-Throughput Field Equipment to Measure Intestinal Irradiation Damage. Role on project: PI |  |
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| **Completed Projects** |  |
| 1. Nestle. RES-DZ-01-03 Study in Septic-shock ICU Patients in which arginine was infused to improve their condition. Role in project: PI | 2007–2010 |
| 1. Arkansas Children’s Hospital Research Institute, ABI Competitive Research Grant Program. Amino acid intake to counteract muscle wasting. Role in project: PI | 2008–2010 |
| 1. Unilever-Nutreco. Nutrition of the Gut. Feed/Food solutions for the infected gut. Role in project: PI | 2007-2010 |
| 1. Arkansas Children’s Hospital Research Institute, CUMG Award. Development and applicability of a new stable isotope method to determine protein requirements in critically ill children. Role in project: Co-I | 2006–2010 |
| 1. Unilever R&D Vlaardingen. Absolute Bioavailability of Hoodia Seroidal Glycosides in Pigs # 06D7X. Role in project: PI | 2007–2008 |
| 1. Absorption kinetics of peptides in pigs. Unilever/DSM. Role in project: PI | 2004–2006 |
| 1. WCFS-A012. Role protein in Obesity. 4 year 1.3 Lab Technician. 0.3 senior researchers. Role in project: PI | 2005–2008 |
| 1. Top Institute Food and Nutrition. Pig SCFA transport over colonic epithelium & Mouse n-Butyric acid to amino acid transfer. Role in project: PI | 2007-2008 |
| 1. ESPEN NESTLE research fellowship: “The effect of cancer and surgery on the inter-organ protein response to feeding”. Role in project: Co-I | 2005–2007 |
| 1. Burn wounds and treatment with Arginine. Kootstra fellowship to Kim Wehrens. Role in project: Co-I | 2006 |
| 1. Chronic Tryptophan depletion and cerebral function. Kootstra fellowship for Cindy Lieben. Role in project: Co-I | 2005–2006 |
| 1. Cerestar. Measurement of portal production of glucose of 5 wheat-based cereal foodstuffs in pigs. Role in project: PI | 2004 |
| 1. WCFS. Homocysteine tracer kinetics. Role in project: PI | 2003–2005 |
| 1. NWO AGIKO 920-03-240 for Mrs. YLJ Vissers. Arginine. Peri-operative depletie en repletie bij kanker. Role in project: PI | 2003–2005 |
| 1. ESPEN NESTLE research fellowship: “Effects of glutamate ingestion on protein metabolism and exercise capacity in COPD patients at rest and during exercise”. Role in project: Co-I | 2003 |
| 1. British Journal of Surgery Research Bursaries 2002. Role in project: Co-I | 2003 |
| 1. Danone-Cerestar. Measurement of the rate of absorption of glucose of 5 wheat-based cereal foodstuffs in pigs. Role in project: PI | 2003 |
| 1. European Whey Protein Association and European Dairy Association. Role in project: PI | 2002–2004 |
| 1. The role of arginine during Cancer: ESPEN Award. Role in project: Co-I | 2002–2004 |
| 1. ESPEN research fellowship: Citrulline, a quantitative biological marker for small bowel mucosal mass in patients treated with radiation therapy to pelvic and/or abdominal cancer. Role in project: Co-I | 2000–2002 |
| 1. ESPEN research fellowship: Glutathione synthesis in the intestine, liver, kidney and muscle of well and undernourished patients. Role in project: Co-I | 2000–2002 |
| 1. Nutricia: Perioperative nutrition. Role in project: Co-PI | 1998–2002 |
| 1. Fresenius-KABI: Glutamine and Glutamine-dipeptides. Role in project: Co-PI | 1998–2001 |
| 1. NWO AGIKO 920-03-036 for Mr. SWM Olde Damink. The effects of isoleucine supplementation during simulated upper gastrointestinal tract bleeding. Role in project: Co-I | 1997–1998 |
| 1. NWO equipment funding 902-23-239. LCQtm Benchtop MSn System for HPLC. Role in project: PI | 1997–2000 |
| 1. European Dairy Association: Protein quality of CASEIN vs. SOY, part II. Role in project: PI | 1997–1999 |
| 1. Dutch Gut-Liver foundation WS 96-20: The labile gut protein pool and its role during disease. Role in project: PI | 1997– 1999 |
| 1. Industry-related project: Nutricia: Glutamine-enriched proteins use in depleted and critically ill patients. Role in project: Co-PI | 1996–1998 |
| 1. NWO program 902-23-098. Intestinal arginine and nitric oxide metabolism in development and disease. Role in project: PI | 1995–2005 |
| 1. Assilec: Protein quality of CASEIN vs SOY. Role in project: PI | 1995 |
| 1. Dutch Gut-Liver foundation WS 91-29. The role of enteral nutrition on adaptation after small bowel resection in the growing individual. Role in project: PI | 1993–1995 |
| 1. Nutricia: Biological availability of Glutamine-enriched proteins in pigs: Role in project: PI | 1993–1996 |
| 1. ESPEN research fellowship: Glutamine supplemented enteral nutrition during adaptation to short bowel syndrome in the pig: effects on protein kinetics and transmembrane transport Role in project: Co-I | 1993–1994 |
| 1. NWO project 900-562-125. Characterization of altered amino acid metabolism in cancer and the relation with cytokines. Role in project: Co-PI | 1992–1996 |
| 1. DMV-Campina: Absorption characteristics of protein: Role in project: PI | 1990–1993 |
| 1. Maastricht University, the Netherlands. Nutrim "Liver coma research". Role in project: PI | 1988–2003 |
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| Patents and Technology Transfer |  |
| 1. Wolfe RR, Troup J, Deutz NEP. Compositions and methods for increasing muscle mass, strength, and functional performance in the elderly. *European patent application*. *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*. *Patent cooperation treaty application*. | 2010 |
| 1. Ferrando AA, Wolfe RR, Troup JP, Deutz NEP. Compositions and methods for sparing muscle in renal insufficiency and during hemodialysis. *Patent cooperation treaty application*. | 2010 |
| 1. Deutz NEP, Troup JP, Wolfe RR. Composition and methods to manage the inflammatory basis of chronic disease conditions and maintain an optimal immune response in elderly. *Patent cooperation treaty application*. 140/1686 us | 2010 |
| 1. Wolfe RR, Troup JP, Deutz NEP. Systems for and Methods of use of Therapeutic Nutrition for the Management of Age-Associated and Age-Specific Health Conditions of the Elderly. *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*. *Patent cooperation treaty application*. | 2009 |
| 1. Wolfe RR, Troup J, Deutz NEP. Determination of tissue-specific profile of amino acid requirements form the relationship between the amounts of tRNAs for individual amino acids and the protein-bound amino acid profile of the tissue. *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*. | 2009 |
| 1. Wolfe RR, Troup J, Deutz NEP. Compositions and methods for improving cardiovascular health. *Patent cooperation treaty application*. *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*. 140/1641 US | 2009 |
| 1. Edens l, Deutz NEP, Dekker PJT. Peptidylarginine deiminase and uses thereof in the production of citrullinated proteins and peptides. *European patent application*. *Patent cooperation treaty application*. Patent: PCT/EP2007/056310. Patent: PCT/EP2007/056310 | 2009 |
| 1. Deutz NEP, Greenberg NA, Kaspar KM, Kvamme C, Luiking YC. Treatments using citrulline. *United States patent and trademark office pre-grant publication*. *Patent cooperation treaty application*. | 2009 |
| 1. Engelen MPKJ, Deutz NEP, Schols AMWJ, Wouters EFM. Compositions and methods for improving the condition of patients suffering from COPD and other diseases. *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*. *European patent application*. *Patent cooperation treaty application*. Pct/ep 04/00151 | 2006 |
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| Invited Presentations & Seminars |  |
| 1. Protein Supplements to overcome anabolic resistance in Cancer. Clinical Nutrition Week. Orlando | Jan 2012 |
| 1. Arkansas Geriatric Education Center (AGEC) NUTRITION & AGING XXVI: Nutrition in Chronic Disease, Double Tree Hotel, Little Rock | Sep 2011 |
| UAMS, 12th Annual Geriatrics and Long Term Care Update, Donald W. Reynolds Institute on Aging, UAMS, Little Rock | Sep 2011 |
| 1. Intensive Course in Tracer Methodology in Metabolism, CTMM 2011, Athens, Greece | May 2011 |
| 1. Turkish Clinical Nutrition Society, Antayla, Turkey **(KEPAN)** | Apr 2011 |
| 1. **International Symposium: Dietary Protein for Human Health,** Auckland, New Zealand | Mar 2011 |
| 1. University Hospital Institutes, The French National Research Funding Agency ANR, Paris, France | Jan 2011 |
| 1. Clinical Nutrition in the Elderly. 12th Annual Geriatrics and Long Term Care Conference, Little Rock, AR. | Sep 2010 |
| 1. Intensive Course in Tracer Methodology in Metabolism, CTMM 2010, Stockholm, Sweden | Jun 2010 |
| 1. Conference Citrulline: a tool to measure intestinal radiation damage. CONTREC. Petit-Jean | Apr 2010 |
| 1. Isotope Tracer in Metabolic Research Course, Little Rock, AR | Apr 2010 |
| 1. Novartis Strategic Advisory Board on Muscle Diseases, Cambridge, MA | Mar 2010 |
| 1. Presentation Cystic Fibrosis Research, site visit Arkansas Children’s Hospital, Little Rock, AR | Feb 2010 |
| 1. Amino Acid supplements, inflammation, and muscle metabolism. Protein Summit, Maastricht. The Netherlands | Oct 2009 |
| 1. Amino Acid supplements, inflammation, and muscle metabolism. Do we know enough to effectively intervene? – Bedside to Bench, NIH Symposium, Bethesda. | Oct 2009 |
| 1. Gut and its requirements. Benjamin Franklin- Lafayette Symposium. Frejus, France | Jun 2009 |
| 1. Measuring Metabolic Fluxes in vivo. Experimental Biology, New Orleans | Apr 2009 |
| 1. Scientifically-based Clinical Nutrition for the Elderly. Dept. of Geriatrics, Institute on Aging Board Meeting. Little Rock, AR. | Dec 2007 |
| 1. Interorgan exchange of Amino Acids: What is the driving force? ISEP 2007, Vichy, France, | Sep 2007 |
| 1. Sir David Cuthbertson Lecture. Amino Acids between and within Organs, ESPEN – 2007 Prague, Czech Republic | Sep 2007 |
| 1. Clinical Nutrition in the Elderly. 9th Annual Geriatrics and Long Term Care Conference, Little Rock. AR. | Oct 2007 |
| 1. Is There a Place for Arginine in ICU Patients? Seminar Series, Dietetic and Nutrition, Little Rock, AR. | Mar 2007 |
| 1. Biomarkers of Arginine and Lysine excess. Ajinomoto ICAAS meeting, Budapest, Hungary. | Nov 2006 |
| 1. Glutamate and Clinical Nutrition. ESPEN Istanbul, Turkey. | Oct 2006 |
| 1. NO and oxidative stress. SINPE Spring Event- Maratea, Italy. | Jun 2006 |
| 1. Interorgan amino acid kinetics. ESPEN Brussels. | Oct 2005 |
| 1. Arginine metabolism during cancer. Nutrition Week, Orlando, U.S.A. | Feb 2005 |
| 1. Nitric oxide turnover in vivo. Amino-Acid/Protein Metabolism in Health and Disease, 6th International Congress, Milano, Italy. | Oct 2004 |
| 1. Nitric oxide production: A good or a bad phenomenon: ESPEN Lisboa, Portugal. | Sep 2004 |
| 1. Studies on the role of nitric oxide in porcine sepsis. 6th World Congress on Trauma, Shock, Inflammation and Sepsis, Munich, Germany. | Jun 2004 |
| 1. Organ protein and carbohydrate metabolism during sepsis. Geneva Symposium for Nutrition, Geneva, Switzerland. | Jun 2004 |
| 1. In vivo interorgan Arginine Metabolism. Symposium on Arginine, Bermuda. | Apr 2004 |
| 1. Arginine therapy in septic shock. Nutrition Week, Las Vegas U.S.A. | Jan 2004 |
| 1. Tracer methods in gut amino acid metabolism during sepsis. 9th International Symposium on Digestive Physiology in Pigs. Banff, Canada. | Jun 2003 |
| 1. The role of Arginine during sepsis. Nutrition Week, San Antonio U.S.A. | Jan 2003 |
| 1. Plasma Plasma protein synthesis measurements using a proteomics strategy. Amino acid Safety and Adequacy, Hawaii, U.S.A. | Oct 2002 |
| 1. Plasma Proteomics. ESPEN, Glasgow, United Kingdom. | Sep 2002 |
| 1. Regulation of protein breakdown by nutrition. ESPEN, Madrid, Spain. | Sep 2000 |
| 1. Intestinal metabolism and absorption during enteral nutrition in the pig. 7th Int.Symp.Dig.Phys.Pigs, Saint Malo, Frankrijk. | Jun 1997 |
| 1. Interorgan ammonia and glutamine metabolism in liver failure. International Symposium on Ammonia, Newcastle upon Tyne, United Kingdom. | Apr 1996 |
| 1. Glutamine supplementation in critically-ill patients. ESPEN, Rome, Italy. | Oct 1995 |
| 1. Modellen voor acute hepatische encephalopathie. Symposium Ned.Ver. Hepatologie, Utrecht, The Netherlands. | Oct 1993 |
| 1. MR spectroscopy for study of brain amino acid metabolism in liver failure. ESPEN, Wenen, Austria | Sep 1992 |
| 1. The muscle-gut-liver axis of ammonia and amino acids. Int. Symposium on Metabolism, Bologna, Italy. | Aug 1992 |
| 1. Influence of isoleucine infusion on urea production after enteral ingestion of blood in pigs. Symposium "Research in Nutrition and Metabolism". Maastricht, The Netherlands. | Nov 1990 |
| 1. Intravenous isoleucine administration after blood ingestion in the pig improves nitrogen economy. Academic Surgical Departments Europe, Ulm, Germany | Oct 1990 |
| 1. Intravenous isoleucine (ILE) administration after blood ingestion in the pig improves nitrogen economy. International Symposium on Ammonia, Lund, Sweden. | May 1990 |
| 1. In vivo brain 1H-NMR spectroscopy in the rat. ESPEN, Helsinki, Finland. | Sep 1989 |
| 1. Hyperammonemic syndromes, including acute hepatic encephalopathy (HE), studied by simultaneous EEG spectral analysis and in vivo 1H-NMR spectroscopy (NMRS). EASL, Leuven, Belgium. | Apr 1988 |
| 1. In vivo brain 1H-NMR spectroscopy (1H-NMRS) during acute hepatic encephalopathy (HE). International Symposium on Ammonia. Maastricht, Netherlands. | May 1987 |
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# **Publications (H-index: 36 (Aug 2011) see Summary of Qualifications pg. 34).**

* + - 1. **Deutz NE**, Bovee WM, Chamuleau RA. Brain 31P NMR spectroscopy in the conscious rat. J Neurosci Methods 1986;16:151-61.

1. **Deutz NE**, Chamuleau RA, Bovee WM, Van der Werf AJ. Effects of nimodipine on EEG and 31P-NMR spectra during and after incomplete forebrain ischemia in the rat. Eur J Pharmacol 1986;125:429-35.
2. Chamuleau RA, **Deutz NE**, de Haan JG, van Gool J. Correlation between electroencephalographic and biochemical indices in acute hepatic encephalopathy in rats. J Hepatol 1987;4:299-306.
3. De Graaf AA, Bovee WM, **Deutz NE**, Chamuleau RA. In vivo 1H-NMR procedure to determine several rat cerebral metabolite levels simultaneously, undisturbed by water and lipid signals. Magn Reson Imaging 1988;6:255-61.
4. **Deutz NE**, Chamuleau RA, de Graaf AA, Bovee WM, de Beer R. In vivo 31P NMR spectroscopy of the rat cerebral cortex during acute hepatic encephalopathy. NMR Biomed 1988;1:101-6.
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