

Mariëlle P.K.J. Engelen, Ph.D.
Texas A&M University
Professor, Chancellor EDGES Fellow
Co-director and head clinical research, Center for Translational Research on Aging & Longevity
Department of Health and Kinesiology, College of Education and Human Development
Human Clinical Research Building, 675 John Kimbrough Boulevard
College Station, Texas 77843-4253
(979)220-2282 mpkj.engelen@ctral.org, mpkj.engelen@tamu.edu

Academic Appointments	
1. Professor, Dept. of Health and Kinesiology, College of Education and Human Development, Texas A&M University, College Station, Texas	2020-pres
2. Associate Professor, Dept. of Health and Kinesiology, College of Education and Human Development, Texas A&M University, College Station, Texas	2012-2020
3. Associate Professor, Dept. of Geriatrics, College of Medicine, University of Arkansas for Medical Sciences. Little Rock, Arkansas	2012
4. Assistant Professor, Dept. of Geriatrics, College of Medicine, University of Arkansas for Medical Sciences. Little Rock, Arkansas	2007-2012
5. Research Associate, Dept. of Respiratory Medicine, Maastricht University, Netherlands	1994-1995
6. Research Associate, Division of Respiratory and Critical Care Physiology and Medicine, Harbor U.C.L.A. Medical Center, Los Angeles, California	1993-1994

Education	
1. Postdoctoral fellow, Dept. of Surgery, Maastricht University Medical Center, Maastricht, Netherlands	2005-2006
2. Postdoctoral fellow, Dept. of Respiratory Medicine, MUMC, Netherlands	2000-2004
3. Ph.D. student, Dept. of Respiratory Medicine, Maastricht University, Maastricht, Netherlands. Ph.D. dissertation: "Muscle wasting in Chronic Obstructive Pulmonary Disease: a metabolic and functional perspective".	1995-2000
4. MSc Health policy and administration, Health education, Maastricht University, Netherlands	1992-1993
5. MSc Health Sciences (Movement sciences), Maastricht University, Maastricht, Netherlands	1988-1992

Honors/Awards	

1. Chancellor EDGES (Enhancing Development and Generating Excellence in Scholarship) Fellowship. Texas A&M University	2019
2. Robert Armstrong scholar award. Department of Health and Kinesiology, Texas A&M University	2019
3. UAMS Medical Research Endowment Herbert L. Thomas, Sr. Memorial Award	2007
4. American Society for Nutrition's Vernon Young International Award for Amino acid Research	2007
5. European Respiratory Society Chronic Obstructive Pulmonary Disease Research award for the Netherlands	2001

RESEARCH

Peer-reviewed published manuscripts

n>100, H-index: 40 (google scholar)/ 33 (Scopus). Impact factors in bold > 5.0: n=31. [Google Scholar](#)
[Marielle Engelen](#).

[*= (under)graduate student author at time of submission]

- Hagve M., Simbo S.Y., Ruebush L.E., [Engelen M.P.K.J.](#), Gutierrez-Osuna R., Mortazavi B., Cote G., Deutz N.E.P. Postprandial concentration of circulating branched chain amino acids are predictive for the carbohydrate content of the ingested mixed meal. *Clinical Nutrition* 2021: In press
- Viana M.V., Becce F., Pantet O., Schmidt S., Bagnoud G., Thaden J.J., Ten Have G.A.M., [Engelen M.P.K.J.](#), Voidey A., Deutz N.E.P., Berger M.M. Impact of Hydroxy-Methylbutyrate (HMB) on muscle loss in critically ill patients: a RCT. *Clinical Nutrition* 2021: In press.
- *Kirschner S.K., Ten Have G.A.M., [Engelen M.P.K.J.](#), Deutz N.E.P. Transorgan Short-Chain Fatty Acid Fluxes in the Fasted and Postprandial State in the Pig. *AJP* 2021
- *Kirschner S.K., Deutz N.E.P., [Engelen M.P.K.J.](#) Intestinal dysfunction in chronic disease. *Current Opinion in Clinical Nutrition & Metabolic Care*. 2021: In press
- *Kirschner S.K., Deutz N.E.P., *Rijnaarts I., Smit T.J., [Engelen M.P.K.J.](#) Impaired Intestinal Function is Associated with Lower Muscle and Cognitive Health and Well-Being in Patients with Congestive Heart Failure. *Journal Parenteral Enteral Nutrition*. 2021: In press
- Deutz N.E.P., Singer P., *Wierzchowska-McNew R.A., Viana M.V., Ben-David I.A., Pantet O., Thaden J.J., Ten Have G.A.M., [Engelen M.P.K.J.](#), Berger M.M. Comprehensive metabolic amino acid flux analysis in critically ill patients. *Clinical Nutrition* 2021: In press
- *Indika N.L.R., Jasinge E., Wijetunge S., Perera P.P.R., Peiris H., [Engelen M.P.K.J.](#), Deutz N.E.P. Sulfur amino acid metabolism and related abnormal metabolites of autism spectrum disorder; A review of biochemical evidence for a hypothesis. *Biochimie* 2021: 184:143-157

8. Ten Have G.A.M., *Jansen L., Schooneman M.G., Engelen M.P.K.J., Deutz N.E.P. Metabolic flux analysis of Branched-chain amino and keto acids (BCAA, BCKA) and β -Hydroxy β -methylbutyric acid (HMB) across multiple organs in the pig. *American Journal Physiology* 2021: 320: E629–E640
9. *Attaway A.A., Welch N., Yadav R., Bellar A., Hatipoglu U., Meli Y., Engelen M.P.K.J., Zein J., Dasarathy S. Quantitative Computed Tomography Assessment of Pectoralis and Erector Spinae Muscle Area and Disease Severity in Chronic Obstructive Pulmonary Disease Referred for Lung Volume Reduction. *Journal Of Chronic Obstructive Pulmonary Disease* 2021: In press
10. Engelen M.P.K.J., Pichard C. Editorial: Interplay between systemic health features and gut microbiome in aging and clinical (wasting) conditions. *Current Opinion in Clinical Nutrition & Metabolic Care*. 2021: 24:207–208
11. *Cruthirds C.L., Deutz N.E.P. , Ligthart-Melis G.C., Simbo S.Y., Engelen M.P.K.J. Walking exercise alters gut function and whole body protein kinetics in COPD patients. *Journal Applied Physiology* 2021: 130: 435-444
12. *Cross K.M., *Granados J.Z., Ten Have G.A.M., Thaden J.J., Engelen M.P.K.J., Lightfoot J.T., Nicolaas E.P. Deutz. Protein fractional synthesis rates within tissues of high- and low-active mice. *PLOS One* 2020: 25: 1-14
13. *Azbell J., *Park J.K., Chang S.H., Engelen M.P.K.J., Park H. Plantar or Palmar Tactile Augmentation Improves Lateral Postural Balance with Significant Influence from Cognitive Load. *IEEE in Transactions on Neural Systems & Rehabilitation Engineering* 2021: 29:113-122
14. *Kirschner S.K., Deutz N.E.P., *Jonker R., Olde Damink S.W.M, Harrykisson R.I., Zachria A.J., Engelen M.P.K.J.. Intestinal function is impaired in Chronic Obstructive Pulmonary Disease. *Clinical Nutrition* 2021: 40:2270-2277
15. *Granados J.Z., Ten Have G.A.M., *Letsinger A.C., Thaden J.J., Engelen M.P.K.J., Lightfoot J.T., Deutz N.E.P. Whole-Body Arginine Pathway is Activated in High-Active Mice. *PLOS One* 2020: 26: 1-14
16. Van der Meij B.S., Deutz N.E.P., Olde Damink S.O., Rodriguez R.E.R., Engelen M.P.K.J. Early signs of impaired gut function affect daily functioning in patients with advanced cancer undergoing chemotherapy. *Journal Parenteral Enteral Nutrition* 2021;45:752–760
17. *Park J.K., Deutz N.E.P., *Cruthirds C.L., *Kirschner S.K., Park H., Madigan M.L., Engelen M.P.K.J. Risk Factors for postural and functional balance impairment in Chronic Obstructive Pulmonary Disease. *Journal Clinical Medicine*. 2020: 9: 609 (**5y IF 2018:**)
18. Pichard C., Engelen M.P.K.J. Editorial: Energy needs: quick and easy to measure. *Current Opinion in Clinical Nutrition & Metabolic Care*. 2020: 3:155-156

19. Engelen M.P.K.J., *Jonker R., Thaden J.J., Ten Have G.A.M., *Jeon M.S., Dasarathy S., Deutz N.E.P. Comprehensive metabolic flux analysis to explain muscle weakness in patients with Chronic Obstructive Pulmonary Disease. *Clinical Nutrition* 2020; 10: 3056-3065 **(5y IF 2018: 5.981)**
20. *Cruthirds C.L., van der Meij, B.S., *Wierchowska-McNew A., Deutz N.E.P., Engelen M.P.K.J. Presence or absence of skeletal muscle dysfunction in Chronic Obstructive Pulmonary Disease is associated with distinct phenotypes. *Archivos de Bronconeumologia* 2021; 57(4): 264-272 (5y IF 2018: 2.976)
21. Ligthart-Melis G.C, Engelen M.P.K.J., Simbo S.S., Ten Have G.A.M., Thaden J.J., Cynober L., Deutz N.E.P. Metabolic Consequences of Supplemented Methionine in a Clinical Context. *J Nutrition* 2020: 150:2538S-2547S (5y IF 2017: 3.799)
22. Van der Meij B.S., *De Groot L.M., Deutz N.E.P., Engelen M.P.K.J. Effects of acute oral feeding on protein metabolism and muscle protein synthesis in people with cancer. *Nutrition* 2019: 11;67-68 (5y IF 2017: 3.799)
23. Engelen M.P.K.J., Ten Have G.A.M., Thaden J.J., Deutz N.E.P. New advances in stable isotope dilution methods to assess whole body protein and amino acid metabolism. *Current Opinion in Clinical Nutrition & Metabolic Care*. 2019; 22(5): 337-346 (5y IF 2017: 4.316)
24. Ten Have G.A.M., Engelen M.P.K.J., Wolfe R.R., Deutz N.E.P. Inhibition of jejunal protein synthesis and breakdown in *Pseudomonas aeruginosa* induced sepsis pig model. *American Journal Physiology* 2019: 316 (6): G755-G762 (5y IF 2017: 4.058)
25. Engelen M.P.K.J., Pichard C. Editorial: Crosstalk between organs and multimodal therapeutic approaches: new insights. *Current Opinion in Clinical Nutrition & Metabolic Care*. 2019; 22(3): 183-184 (5y IF 2017: 4.316)
26. *Jonker R., Deutz N.E.P., Schols A.M.W.J., Veley E.A., Harrykissoon R., Zachria A.J., Engelen M.P.K.J. Whole body protein anabolism in COPD patients and healthy older adults is not enhanced by adding either carbohydrates or leucine to a serving of protein. *Clinical Nutrition* 2019; 38 (4): 1684-1691 **(5y IF 2017: 5.526)**
27. Van der Meij B.S., Deutz N.E.P., Rodriguez R., Engelen M.P.K.J. Increased amino acid turnover and myofibrillar protein breakdown in advanced cancer are associated with muscle weakness and impaired physical function. *Clinical Nutrition* 2019; 38(5):2399-2407 **(5y IF 2017: 5.526)**
28. Van der Meij B.S., Teleni L, Engelen M.P.K.J., Deutz N.E.P. Amino Acid Kinetics and the Response to Nutrition in Patients with Cancer. *International Journal of Radiation Biology* 2019; 95 (4):480-492 (5y IF 2017: 1.742)
29. *Jonker R, Deutz N.E.P., Ligthart-Melis G.C., Zachria A.J., Veley E.A., Harrykissoon R., Engelen M.P.K.J. Preserved anabolic threshold and capacity as estimated by a novel stable tracer

- approach suggests no anabolic resistance or increased requirements in weight stable COPD patients. *Clinical Nutrition* 2019; 38 (4) 1833-1843 **(5y IF 2017: 5.526)**
30. Engelen M.P.K.J., Deutz N.E.P. Is HMB an effective anabolic agent to improve outcome in diseased populations? *Current Opinion in Clinical Nutrition & Metabolic Care*. 2018; 21:207-213 (5y IF 2017: 4.316)
 31. Fan Y.Y., Fuentes N.R., Hou T.Y., Barhoumi R., Li X.C., Deutz N.E.P., Engelen M.P.K.J., McMurray D.N. and Chapkin R.S. Remodelling of primary human CD4+ T cell plasma membrane 2 order by n-3 PUFA, *Br J Nutr* 2018; 119:163-175 (5y IF 2017: 4.052)
 32. *Jonker R., Deutz N.E.P., Harrykissoon R., Zachria A.J., Veley E.A., Engelen M.P.K.J. A critical evaluation of the anabolic response after bolus or continuous feeding in COPD and healthy older adults. *Clinical Science*. 2018; 132:17-31 **(5y IF 2017: 5.178)**
 33. Deutz N.E.P., Thaden J.J., *Ten Have G.A.M., Walker D.K., Engelen M.P.K.J. Metabolic phenotyping using kinetic measurements in young and older healthy adults. *Metabolism* 2018; 78:167-178 (5y IF 2017: 4.647)
 34. Engelen M.P.K.J., Klimberg V.S., *Allasia A, Deutz N.E.P. Major surgery diminishes systemic arginine availability and suppresses nitric oxide response to feeding in patients with early stage breast cancer. *Clinical Nutrition* 2018; 37: 1645-53 **(5y IF 2017: 5.526)**
 35. Ten Have G.A.M., *Deutz R.C.I., Engelen M.P.K.J., Wolfe R.R., Deutz N.E.P. Characteristics of a *Pseudomonas aeruginosa* induced porcine sepsis model for multi-organ metabolic flux measurements. *Laboratory animals* 2018; 52:163-175 (5y IF 2017: 1.618)
 36. Deutz N.E.P., Simbo S.Y., Ligthart-Melis G.C., Cynober C., Smriga N., Engelen M.P.K.J. Tolerance to increased supplemented dietary intake levels of methionine in healthy older adults. *American Journal Clinical Nutrition* 2017; 106:675-683 (5y IF 2017: 7.685)
 37. Ten Have G.A.M., Engelen M.P.K.J., Wolfe R.R., Deutz N.E.P. Phenylalanine isotope pulse method to measure effect of sepsis on protein breakdown and membrane transport in the pig. *American Journal Physiology* 2017; 312:E519-529 (5y IF 2017: 4.058)
 38. *Mason A, Engelen M.P.K.J., Ivanov I, Toffolo G.M., Deutz N.E.P. A Four Compartments Compartmental Model to Assess Net Whole Body Protein Breakdown Using a Pulse of Phenylalanine and Tyrosine Stable Isotopes in Humans. *American Journal Physiology* 2017; 313:E63-74 (5y IF 2017: 4.058)
 39. Kumar A., Davuluri G., Nascimento R., Engelen M.P.K.J., *Ten Have G.A.M., Deutz N.E.P., Dasarathy S. Ammonia lowering reverses sarcopenia of cirrhosis by restoring skeletal muscle proteostasis. *Hepatology* 2017; 65:2045-58 **(5y IF 2017: 11.889)**

40. *De Betue C.T.I., Garcia Casal X.C., van Waardenburg D.A., Schexnayder S.M., Joosten K.F.M., Deutz N.E.P., Engelen M.P.K.J. 24-Hour protein, arginine and citrulline metabolism in fed critically ill children - a stable isotope tracer study. *Clinical Nutrition*. 2017; 36:876-887 **(5y IF 2017: 5.526)**
41. *Jonker R., Deutz N.E.P., Erbland M.L., Anderson P.J., Engelen M.P.K.J. Effectiveness of essential amino acid supplementation in stimulating whole body net protein anabolism is comparable between COPD patients and healthy older adults. *Metabolism* 2017; 69:120-129 (5y IF 2017: 4.647)
42. Engelen M.P.K.J., Klimberg V.S., *Allasia A, Deutz N.E.P. Presence of early stage cancer does not impair the early protein metabolic response to major surgery. *Journal of Cachexia, Sarcopenia and Muscle*. 2017; 8:447-456 **(5y IF 2017: 9.872)**
43. Walker D.K., Thaden J.J., *Wierzchowska - McNew A., Engelen M.P.K.J., Deutz N.E.P. Determination of beta-Hydroxy-beta-methylbutyrate Concentration and Enrichment in Human Plasma Using Chemical Ionization Gas Chromatography Tandem Mass Spectrometry. *Journal of Chromatography B*. 2017;1040:233-238 (5y IF 2017: 2.526)
44. Engelen M.P.K.J., Safar A.M., Bartter T., *Koeman F., Deutz N.E.P. Reduced arginine availability and nitric oxide synthesis in cancer is related to impaired endogenous arginine synthesis. *Clinical Science* 2016; 130:1185-95 **(5y IF 2016: 5.315)**
45. *Jonker R., Deutz N.E.P., Erbland M.L., Anderson P.J., Engelen M.P.K.J. Alterations in whole body arginine metabolism in chronic obstructive pulmonary disease. *American Journal Clinical Nutrition* 2016;103:1458-64 **(5y IF 2016: 7.506)**
46. Engelen M.P.K.J., Van der Meij B.S., Deutz N.E.P. Protein Anabolic Resistance in Cancer: Does it really exist? *Current Opinion in Clinical Nutrition & Metabolic Care*. 2016;19:39-47 (5y IF 2016: 4.009)
47. Engelen M.P.K.J., Safar A.M., Bartter T., *Koeman F., Deutz N.E.P. High anabolic potential of essential amino acid mixtures in advanced nonsmall cell lung cancer. *Annals Oncology* 2015; 26:1960-6 **(5y IF 2016: 9.014)**
48. Ligthart-Melis G.C., Marini J.C., Engelen M.P.K.J., Deutz N.E.P. Glutamine supplementation, citrulline production and de novo arginine synthesis: is there a relationship? *American Journal Clinical Nutrition* 2015;101:890-2 **(5y IF 2015: 7.409)**
49. Tsien C. , Davuluri G., Singh D., Allawy A., *Ten Have G.A.M., Thapaliya S., Schulze J.M., Barnes D., McCullough A.J., Engelen M.P.K.J., Deutz N.E.P., Dasarathy S. Metabolic and Molecular Responses to Leucine-Enriched Branched Chain Amino Acid Supplementation in the Skeletal Muscle of Alcoholic Cirrhosis. *Hepatology* 2015;61:2018-29 **(5y IF 2015: 11.854)**

50. Engelen M.P.K.J., Com G, Deutz NEP. Protein is an important but undervalued macronutrient in the nutritional care of patients with cystic fibrosis. *Current Opinion in Clinical Nutrition & Metabolic Care*. 2014; 17: 515-20 (5y IF 2014: 4.385)
51. Engelen M.P.K.J., Com G., Deutz N.E.P. Increased whole-body hydroxyproline production is associated with hip and spine bone mineral loss in pediatric patients with Cystic Fibrosis, *Clin. Nutr.* 2014, 33: 1117-21 (5y IF 2014: 4.533)
52. Engelen M.P.K.J., Com G., Anderson P.J., Deutz N.E.P. New Stable Isotope Method to Measure Protein Digestibility and Response to Pancreatic Enzyme Intake in Cystic Fibrosis, *Clin. Nutr.* 2014, 33: 1024-32 (5y IF 2014: 4.533)
53. *Jonker R., Deutz N.E.P., Erbland M.L., Anderson P.J., Engelen M.P.K.J. Hydrolyzed casein and whey protein meals comparably stimulate net whole-body protein synthesis in COPD patients with nutritional depletion without an additional effect of leucine co-ingestion. *Clinical Nutrition* 2014, 33(2):211-20 (5y IF 2014: 4.533)
54. Engelen M.P.K.J., Com G., Wolfe R.R., Deutz N.E.P. Dietary essential amino acids are highly anabolic in pediatric patients with Cystic Fibrosis. *J. Cystic Fibrosis*. 2013;12: 45–453 (5y IF 2013:3.221)
55. Engelen M.P.K.J., Com G., Luiking Y.C., Deutz N.E.P. Stimulated de novo arginine synthesis and protein turnover in cystic fibrosis and the effects of nutritional failure. *J. Pediatrics*. 2013;163:369-75 (IF: 3.117)
56. *Jonker R., Engelen M.P.K.J., Deutz N.E.P. Role of specific dietary amino acids in clinical conditions. *British Journal Nutrition* 2012;108:S139-48 (5y IF 2012: 3.596)
57. Engelen M.P.K.J., *Rutten E.P.A., De Castro C.L.N., Wouters E.F.M., Schols A.M.W.J., Deutz N.E.P. Differential prandial and exercise induced response in protein metabolism to casein and whey protein intake in COPD. *Metabolism*. 2012;61:1289-300 (5y IF 2012: 2.815)
58. Engelen M.P.K.J., *De Castro C.L.N., *Rutten E.P.A., Wouters E.F.M., Schols A.M.W.J., Deutz N.E.P. Enhanced anabolic response to milk protein feeding in COPD is associated with a reduced splanchnic extraction of multiple amino acids. *Clinical Nutrition* 2012;31:616-24 (5y IF 2012:3.877)
59. Engelen M.P.K.J., *Schroder R, *Van der Hoorn K., Deutz N.E.P., Com G. Decreased lung function and bone loss in children with CF with hidden fat-free mass depletion. *Clinical Nutrition* 2012 31;6:927-33. (5y IF 2012:3.877)
60. *Ten Have G.A.M., Engelen M.P.K.J., Soeters P.B., Deutz N.E.P. Post-prandial gut catabolism after a single low quality protein meal. *Clinical Nutrition* 2012;31:273-82 (5y IF 2012:3.877)

61. Luiking Y.L., Engelen M.P.K.J., Soeters P.B., Boirie Y., Deutz N.E.P. Differential metabolic effects of casein and soy protein meals on skeletal muscle in healthy volunteers. *Clinical Nutrition* 2011;30:65-72 (5y IF 2011:4.093)
62. Luiking Y.L., Engelen M.P.K.J., Deutz N.E.P. Regulation of nitric oxide production in health and disease. *Current Opinion Clinical Nutrition Metabolic Care* 2010;13:97-104 (5y IF 2010:3.933)
63. *Veldhorst M.A.B., Nieuwenhuizen A.G., Hochstenbach-Waelen A., Westerterp K., Engelen M.P.K.J., Brummer R.J.M., Deutz N.E.P., Westerterp-Plantenga M.S. A breakfast with alpha-lactalbumin, gelatin, or gelatin+TRP lowers energy intake at lunch compared with a breakfast with casein, soy, whey, or whey-GMP. *Clinical Nutrition* 2009; 28:147-55 (5y IF 2009:3.626)
64. *Veldhorst M.A.B., Nieuwenhuizen A.G., Hochstenbach-Waelen A., van Vught A.J, Westerterp K., Engelen M.P.K.J., Brummer R.J.M., Deutz N.E.P., Westerterp-Plantenga M.S. Comparison of the effects of a high-and normal casein breakfast on satiety, satiety hormones, plasma amino acids and subsequent energy intake. *British Journal Nutrition* 2009; 101:295-303 (5y IF 2009:3.569)
65. *Veldhorst M.A.B., Nieuwenhuizen A.G., Hochstenbach-Waelen A., van Vught A.J.A.H., Westerterp K., Engelen M.P.K.J., Brummer R.J.M., Deutz N.E.P., Westerterp-Plantenga M.S. Dose-dependent satiating effect of whey relative to casein and soy. *Phys. Behav.* 2009;98:675-82 (5y IF 2009:3.339)
66. *Veldhorst M.A.B., Nieuwenhuizen A.G., Hochstenbach-Waelen A., Westerterp K., Engelen M.P.K.J., Brummer R.J.M., Deutz N.E.P., Westerterp-Plantenga M.S. Effects of high and normal soy protein breakfasts on satiety and subsequent energy intake, including amino acid and 'satiety' hormone responses *Eur J. Nutr.* 2009; 48:92-100 (5y IF 2009:3.146)
67. *Veldhorst M.A.B., Nieuwenhuizen A.G., Hochstenbach-Waelen A., Westerterp K., Engelen M.P.K.J., Brummer R.J.M., Deutz N.E.P., Westerterp-Plantenga M.S. Effects of complete whey-protein breakfasts versus whey without GMP breakfasts on energy intake and satiety. *Appetite* 2009; 52:388-95 (5y IF 2009:2.966)
68. *Rutten E.P.A., Engelen M.P.K.J., Gosker H., Bast A., Cosemans K., *Vissers Y.L.J., Wouters E.F.M., Deutz E.F.M., Schols A.M.W.J. Metabolic and functional effects of glutamate ingestion in patients with chronic obstructive pulmonary disease. *Clin. Nutr.* 2008;27:408-15 (5y IF 2008:3.367)
69. *Veldhorst M., Nieuwenhuizen A., Hochstenbach-Waelen A., Westerterp K., Engelen M.P.K.J., Brummer R.J., Deutz N.E.P., Westerterp-Plantenga M. Comparison of the effects of a high and normal casein-breakfast on satiety, 'satiety' hormones, plasma amino acids and subsequent energy intake. *Br. J. Nutr.* 2008;18:1-8 (5y IF 2008:3.132)
70. Nieuwenhuizen A., Hochstenbach-Waelen A., *Veldhorst M., Westerterp K., Engelen M.P.K.J., Brummer RJ, Deutz N.E.P., Westerterp-Plantenga M. Acute effects of breakfasts containing

alpha-lactalbumin, or gelatin with or without added tryptophan, on hunger, satiety hormones and amino acid profiles. Br. J. Nutr. 2008; 19:1-8 (5y IF 2008:3.132)

71. Engelen M.P.K.J., *Rutten E.P.A., *De Castro C.L.N., Wouters E.F.M., Schols A.M.W.J., Deutz N.E.P. Supplementation of soy protein with branched-chain amino acids alters protein metabolism in healthy elderly and even more in chronic obstructive pulmonary disease. Am. J. Clin. Nutr. 2007;85:431-439 **(5y IF 2007:7.207)**
72. *Ten Have G.A.M., Engelen M.P.K.J., Luiking Y.C., Deutz N.E.P. Absorption kinetics of amino acids, peptides, and intact proteins. Int. J. Sports Nutr. Exerc. Metab. 2007;17:S23-36 (5y IF 2007:1.757)
73. *Rutten E.P.A., Engelen M.P.K.J., *Castro C.L.N., Wouters E.F.M., Schols A.M.W.J., Deutz N.E.P. Metabolic effects of glutamine and glutamate ingestion in healthy subjects and in persons with chronic obstructive pulmonary disease. Am. J. Clin. Nutr. 2006;83:115-23 **(IF 2006:6.562)**
74. *Rutten E.P.A., Engelen M.P.K.J., Wouters E.F.M., Deutz N.E.P., Schols A.M.W.J. Effect of glutamate ingestion on whole-body glutamate turnover in healthy elderly and patients with chronic obstructive pulmonary disease. Nutrition 2006;22:496-503 (IF 2006:2.229)
75. *Rutten E.P.A., *Franssen F.M., Engelen M.P.K.J., Wouters E.F.M., Deutz N.E.P., Schols A.M.W.J. Greater whole-body myofibrillar protein breakdown in cachectic patients with chronic obstructive pulmonary disease. Am. J. Clin. Nutr. 2006;83:829-34 **(IF 2006: 6.562)**
76. Nici L, Donner C, Wouters E, Zuwallack R, Ambrosino N, Bourbeau J, Carone M, Celli B, Engelen M.P.K.J., Fahy B, Garvey C, Goldstein R, Gosselink R, Lareau S, Macintyre N, Maltais F, Morgan M, O'donnell D, Prefault C, Reardon J, Rochester C, Schols A, Singh S, Troosters T. American thoracic society/european respiratory society statement on pulmonary rehabilitation. Am. J. Respir. Crit. Care Med. 2006 Jun 15;173(12):1390-413 **(IF 2006: 9.091)**
77. Westerterp-Plantenga M.S., Luscombe-Marsh N., Lejeune M.P.G.M., Diepvens K., Nieuwenhuizen A., Engelen M.P.K.J., Deutz N.E.P., Azzout-Marniche D., Tome D., Westerterp K.R. Dietary protein, metabolism, and body weight regulation: dose-response effects. Int J Obes (Lond): 2006 Dec 30 Suppl 3:S16-23 (IF 2006: 4.055)
78. *Rutten E.P.A., Engelen M.P.K.J., Wouters E.F.M., Schols A.M.W.J., Deutz N.E.P. Skeletal muscle glutamate metabolism in health and disease: state of the art. Curr. Opin. Clin. Nutr. Metab. Care. 2005; 8:41-51 (IF 2005: 3.319)
79. Engelen M.P.K.J., *Rutten E.P.A., Wouters E.F.M., Schols A.M.W.J., Deutz N.E.P. Altered interorgan response to feeding in patients with Chronic Obstructive Pulmonary Disease. Am. J. Clin. Nutr. 2005; 82:366-72 **(IF 2005: 5.853)**
80. *Rutten E.P.A., Engelen M.P.K.J., *Castro C.L.N., Wouters E.F.M., Schols A.M.W.J., Deutz N.E.P. Decreased whole-body and splanchnic glutamate metabolism in healthy elderly men and

patients with chronic obstructive pulmonary disease in the postabsorptive state and in response to feeding. *J. Nutr.* 2005;135:2166-70 (IF 2005:3.689)

81. Engelen M.P.K.J., Orozco-Levi M., Deutz N.E.P., Barriero E., Hernandez N., Wouters E.F.M., Gea J., Schols A.M.W.J. Glutathione and glutamate status in the diaphragm of patients with COPD. *Eur. Respir. J.* 2004;23:545-551 (IF 2004: 3.096)
82. Engelen M.P.K.J., Deutz N.E.P., Wouters E.F.M., Mostert R., Schols A.M.W.J. Response of whole-body protein and urea turnover to exercise differs between patients with chronic obstructive pulmonary disease with and without emphysema. *Am. J. Clin. Nutr.* 2003;77(4):868-74 (IF 2003: 5.692)
83. Engelen M.P.K.J., Schols A.M.W.J. Altered amino acid metabolism in chronic obstructive pulmonary disease: new therapeutic perspective? *Curr. Opin. Clin. Nutr. Metab. Care.* 2003;6(1):73-8 (IF 2003:2.353)
84. Engelen M.P.K.J. Protein metabolism in chronic respiratory disease. *Eur. Respir. Mon.* 2003;24:23-33
85. Jagoe R.T., Engelen M.P.K.J. Muscle wasting and changes in muscle protein metabolism in COPD. *Eur. Respir. J.* 2003;22:52-63 (IF 2003: 2.999)
86. Gosker H.R., van Mameren H., van Dijk P., Engelen M.P.K.J., van der Vusse G.J., Wouters E.F.M., Schols A.M.W.J. Fiber type redistribution and altered oxidative capacity in the vastus lateralis of patients with COPD. *Eur. Respir. J.* 2002;19:617-626 (IF 2002: 2.931)
87. Gosker H.R., Engelen M.P.K.J., van Mameren H., van Dijk P., van der Vusse G.J., Wouters E.F.M., Schols A.M.W.J. Muscle fiber type IIX atrophy is involved in the loss of fat-free mass in COPD. *Am. J. Clin. Nutr.* 2002;76:113-9 (IF 2002:5.601)
88. Engelen M.P.K.J., Wouters E.F.M., Deutz N.E.P., Does J.D., Schols A.M.W.J. Effects of exercise on amino acid metabolism in patients with chronic obstructive pulmonary disease. *Am. J. Respir. Crit Care Med.* 2001;163:859-864 (IF 2001: 5.956)
89. Engelen M.P.K.J., Schols A.M.W.J., Does J.D., Deutz N.E.P., Wouters E.F.M. Altered glutamate metabolism is associated with reduced muscle glutathione levels in patients with emphysema. *Am. J. Respir. Crit. Care Med.* 2000;161:98-103 (IF 2000: 5.443)
90. Engelen M.P.K.J., Schols A.M.W.J., Does J.D., Wouters E.F.M. Skeletal muscle weakness is associated with extremity fat-free mass wasting but not with airflow obstruction in patients with COPD. *Am. J. Clin. Nutr.* 2000;71:733-738 (IF 2000: 5.012)
91. Riley M.S., Pórszász J., Engelen M.P.K.J., Shapiro S.M., Brundage B.H., Wasserman K. Responses to constant work rate bicycle ergometry exercise in primary pulmonary hypertension: the effect of inhaled nitric oxide. *J. Am. Coll. Cardiol.* 2000;36:547-556 (IF 2000: 7.082)

92. Engelen M.P.K.J., Wouters E.F.M., Deutz N.E.P., Menheere P.P.C.A., Schols A.M.W.J. Factors contributing to alterations in skeletal muscle and plasma amino acid profile in patients with chronic obstructive pulmonary disease. *Am. J. Clin. Nutr.* 2000;72:1480-1487 **(IF 2000: 5.012)**
93. Engelen M.P.K.J., Deutz N.E.P., Wouters E.F.M., Schols A.M.W.J. Enhanced whole body protein turnover in patients with chronic obstructive pulmonary disease. *Am. J. Respir. Crit. Care Med.* 2000;162:1488-1492 **(IF 2000: 5.443)**
94. Engelen M.P.K.J., Schols A.M.W.J., Does J.D., Deutz N.E.P., Wouters E.F.M. Exercise induced lactate increase in relation to skeletal muscle substrates in chronic bronchitis and emphysema patients. *Am. J. Respir. Crit. Care Med.* 2000;162:1697-1704 **(IF 2000: 5.443)**
95. Riley M.S., Pórszász J., Engelen M.P.K.J., Brundage B.K., Wasserman K. Gas exchange responses to continuous incremental cycle ergometry exercise in primary pulmonary hypertension in humans. *Eur. J. Appl. Physiol.* 2000;83:63-70 (IF 2000: 1.404)
96. Engelen M.P.K.J., Schols A.M.W.J., Heidendal G.A.K., Wouters E.F.M. Dual-energy X-ray absorptiometry in the clinical evaluation of body composition and bone mineral density in patients with chronic obstructive pulmonary disease. *Am. J. Clin. Nutr.* 1998;68:1298-1303 (IF 1998: 3.417)
97. Engelen M.P.K.J., Schols A.M.W.J., Lamers R.J.S., Wouters E.F.M. Different patterns of chronic tissue wasting among patients with chronic obstructive pulmonary disease. *Clin. Nutr.* 1999;18:275-280 (IF 1999: 1.117)
98. Riley M.S., Maehara K., Pórszász J., Engelen M.P.K.J., Barstow T.J., Tanaka H., Wasserman K. Association between the anaerobic threshold and the break-point in the double product / work rate relationship. *Eur. J. Appl. Physiol.* 1997;75:14-21 (IF 1997: 0.827)
99. Riley M.S., Pórszász J., Miranda J., Engelen M.P.K.J., Brundage B.H., Wasserman K. Exhaled nitric oxide during exercise in primary pulmonary hypertension and pulmonary fibrosis. *Chest* 1997;111:44-50 (IF 1997: 2.341)
100. Engelen M.P.K.J., Pórszász J., Riley M.S., Maehara K., Wasserman K., Barstow T.J. Effects of hypoxic hypoxia on O₂ uptake and heart rate kinetics during heavy exercise. *J. Appl. Physiol.* 1996;82:2500-2508 (IF 1996: 2.050)
101. Engelen M.P.K.J., Casaburi R., Rucker R., Carithers E. Contribution of the respiratory muscles to the lactic acidosis during heavy exercise in chronic obstructive pulmonary disease. *Chest* 1995;108;5:1246-1251 (IF 1996: 1.944)
102. Engelen M.P.K.J., Schols A.M.W.J., Baken W.C., Wesseling G.J., Wouters E.F.M. Nutritional depletion in relation to peripheral skeletal and respiratory muscle function in out-patients with

Book contributions

1. Wouters E.F.M., Dentener M.A., Vernooy J.H.J., Pouw E.M., Engelen M.P.K.J., Creutzberg E.C. 2003: AECOPD: a systemic disease? In N. Siafakis, N. Anthonisen, D. Georgopoulos, editors. AE-COPD, ed. Marcel Dekker Inc., New York.

Manuscripts under review

- A. *Lara-Garduno R. *Jia Y, Deutz N.E.P., Engelen M.P.K.J., Leslie N., Hammond T. Applying Sketch Recognition Techniques to Detect Mild Cognitive Impairment in Digitized Trail-Making Tests
- B. *Ghane P, Engelen M.P.K.J., Ivanov I, Braga-Neto U.M., Deutz N.E.P. Plasma concentrations of amino acids do not represent their whole body production rates: A study with Cluster Analysis.
- C. *Cruthirds C.L., Deutz N.E.P., Mizubutia Y.G.G., Harrykissoon R.I., Zachria A.J., Engelen M.P.K.J. Abdominal obesity in COPD is associated with specific functional, clinical, and metabolic alterations. 2021
- D. *Cruthirds C.L., Deutz N.E.P., Harrykissoon R.I., Zachria A.J., Engelen M.P.K.J. A low postabsorptive whole body net protein breakdown is associated with markers of poor daily physical functioning in Chronic Obstructive Pulmonary Disease. 2021 Clinical Nutrition 2021

Grants and Contract Awards

(Award amount: \$12,199,289.07 / Amount attributable to Engelen: \$5,491,535.68)

Current projects (Award amount/ Amount attributable to Engelen)	
1. Philips Research North America. "Persistent Readiness through Early Prediction (PREP)". PI: Deutz. Role in Project: Co-I (\$M2.5)	2021-2025
1. PR190829. Department of Defense (DOD) Army Medical Research and Material Command. "Targeted Nutritional Approach to Improve Muscle Function and Physical Activity by Restoring Metabolic Deregulations during recovery from Sepsis". PI: Deutz. Role in Project: Co-I (\$1,770,586.00/\$30,741.00)	2020-2022
2. 1R56HL141744-01A1. "Nutritional modulation to minimize resistance exercise induced metabolic deregulations and improve training responsiveness in Chronic Obstructive Pulmonary Disease". PI: Engelen, CoPI: Deutz (\$756,559/\$739,766)	2019-2020

3. R01AG064010-01 "A longitudinal investigation of the cerebellum in adulthood: anatomical and network changes, motor function, and cognition". PI: Bernard. Role in Project: Co-I (\$3,049,115/ \$28,026)	2019-2024
4. Abbott Nutrition. "Effects of low dose of Fish Oil (EPA+DHA) vs. combined EPA+DHA and HMB on protein metabolism, muscle mass and functional capacity in moderate to severe COPD". PI: Deutz. Role in Project: Co-PI (\$337,496.19/\$168,748.10)	2018-2020
5. European Society for Parenteral and Enteral Nutrition. "The Intestinal Microbiota as a Mediator Between Diet and Chronic Obstructive Pulmonary Disease" PI: Kirschner. Role on project: Mentor/Co-I (\$45,500.00/\$45,500.00)	2019-2021
6. Chancellor EDGES (Enhancing Development and Generating Excellence in Scholarship) fellowship, Texas A&M University (\$600,000.00/\$600,000.00)	2019-2022
7. T3 grant Texas A&M University "Sleep and cognition in patients with respiratory disorders". PI: Woltering, Co-PI: Bukkapatnam. Role in Project: Co-PI (\$30,000/\$10,000)	2019-2020

Federal projects in revision

1. DHHS-NIH-Clinical Center. Mechanisms of motor function impairments with obesity and advanced age. PI: Mehta, Co-I: Engelen (\$3,408,516).
2. R01 PA-19-056. "Targeted nutritional approach to improve muscle function and physical activity by restoring metabolic deregulations during recovery from sepsis". PI: Deutz. Role in Project: Co-I (\$3,750,508.00)

Federal projects under review

1. R61/33. Managing Chronic Obstructive Pulmonary Disease in the Home setting using targeted nutrition alongside exercise rehabilitation: an efficacy (reCHARGe) trial. PAR-19-328. (\$3,740,429.00)
2. 1 R01 HL153588-01. Gut abnormalities in patients with Chronic Obstructive Pulmonary Disease: Mechanistic insights and systemic health consequences. PI: Engelen, Co-PI: Deutz (\$3,779,354).

Previously funded/ completed projects: Federal (Award amount/ Amount attributable to Engelen)	
1. R01-HL095903 National Institute of Health: "Eicopentaenoic acid and protein modulation to induce anabolism in COPD". Role on project: PI (\$1,250,000/\$1,250,000.00)	2015
2. DHHS-R01-HL095903 National Institute of Health: "Eicopentaenoic acid and protein modulation to induce anabolism in COPD". Role on project: PI (\$377,040.97/\$377,040.97)	2015

3.	R01GM084447 National Institute of Health. Optimal Amino Acid Nutrition in Sepsis MPI: Deutz/Wolfe, Role on project: Co-I (\$1,115,000/\$223,000.00)	2012
4.	3R01GM084447-03S1 National Institute of Health Optimal Amino Acid Nutrition in Sepsis – Collaborative Research with Karolinski Institute. MPI: Deutz/Wolfe, Role on project: Co-I (\$77,701,00/\$15,540.20)	2012
5.	3R01-GM084447-02S1 National Institute of Health: “Optimal amino acid nutrition in sepsis”-Equipment-LCMS detector. MPI: Deutz/Wolfe, Role on project: Co-I (\$99,000/\$19,800.00)	2012
6.	DHHS-NIH-National Institute of General Medical Science: “Optimal Amino Acid Nutrition In Sepsis” - Role on project: Co-I (\$377,040.97/\$75,408.19)	2012
7.	1 P30 AG028718–01A2 National Institute on Health - Arkansas Claude Pepper Older Americans Independence Center at UAMS. PES1 Pilot Exploratory Study 1. Role on project: Senior Faculty Mentor (\$1,077,000.00/y for 4y/\$100,000.00)	2012
8.	Arkansas Center for Clinical and Translational Research/ National Institutes of Health - “Development Of An Innovative Panel of Methods To Measure Intestinal Macronutrient Digestion, Absorption, and Function”. Role on project: Co-PI (\$100,000.00/\$50,000.00)	2012

Previously funded/ completed projects: (Inter)national / State / Foundation (Award amount/ Amount attributable to Engelen)		
1.	European Society for Parenteral and Enteral Nutrition. “Role Of Metabolic Phenotyping, Changes In Gut Function And The Response To A Meal To Explain The Variability In Weight Loss Induced By Very Low Caloric Diet In (Morbidly) Obese Adults”. PI: Simbo. Role on project: Mentor/Co-I (\$57,879.92/\$57,879.92)	2019
2.	European Society for Parenteral and Enteral Nutrition fellowship. “Exercise induced gut dysfunction and the anabolic response to feeding in patients with Chronic Obstructive Pulmonary Disease and Chronic Heart Failure. PI: Cruthirds. Role on project: Mentor/Co-I (\$49,730/\$49,730.00)	2018
3.	European Society for Parenteral and Enteral Nutrition fellowship. “Triheptanoin treatment and restoring intermediary metabolism in type 2”. PI: Walker. Role on project: Mentor/Co-I (\$55,634.37/\$27,817.19)	2016
4.	International Council on Amino Acid Science. Methionine Tolerance Experiment. PI: Deutz. Role on project: CoI (\$322,761.00/\$64,552.20)	2016
5.	European Society for Parenteral and Enteral Nutrition fellowship. “Metabolic effects of chemotherapy and the clinical effects of nutritional intervention in cancer”. PI: Van der Meij. Role on project: Mentor/Co-I (\$66,176.45/\$66,176.45)	2015
6.	European Society for Parenteral and Enteral Nutrition - Polyunsaturated fatty acid supplementation to stimulate meal-induced net protein synthesis in muscle of patients with Chronic Obstructive Pulmonary Disease. PI: R. Jonker. Role of project: Mentor/Co-I (\$28,356.00/\$28,356.00)	2012

7. American Institute for Cancer Research. "Effects of essential amino acid intake on skeletal muscle protein synthesis in weight-losing non-small cell lung cancer". Role on project: PI (\$175,000.00/\$175,000.00)	2011
8. European Society for Parenteral and Enteral Nutrition - NESTLE research fellowship: "The effect of cancer and surgery on the inter-organ protein response to feeding". Role on project: PI (\$19,000.00/\$19,000.00)	2005
9. European Society for Parenteral and Enteral Nutrition - NESTLE research fellowship: "Effects of glutamate ingestion on protein metabolism and exercise capacity in COPD patients at rest and during exercise". PI: Rutten. Role on project: mentor/Co-I (\$19,000/19,000.00)	2003
10. Industrial grant European Dairy Association, Brussels: "The effects of exercise on the metabolic fate of branched-chain amino acids in relation to aging and chronic disease". Role on project: Co-I (\$188,000.00/\$20,000.00)	2002
11. Netherlands Asthma Foundation Project grant: "The role of the amino acid glutamate in the impaired (skeletal muscle) metabolism and functional capacity of COPD patients with emphysema". PI: Wouters, Role on project: Co-I (\$279,261.56/\$0)	2000
12. European Society for Parenteral and Enteral Nutrition Research fellowship for the project: "Effects of lower limb exercise on muscle energy status and amino acid metabolism in patients with chronic bronchitis and emphysema and healthy volunteers". Role on project: PI (\$19,000/\$0)	1997

Previously funded/ completed projects: Internal (Award amount/ Amount attributable to Engelen)	
1. PESCA Grant Texas A&M University. "Intramuscular metabolic phenotyping to identify muscle dysfunction in older adults with chronic disease". PI: Engelen (\$25,000.00/\$20,000.00)	2018
2. Research Strategic Areas Interdisciplinary Research Seed Grant Texas A&M University. "Applicability of 1 Tesla scanner to assess abnormalities in muscle bioenergetics and metabolism during local exercise in older adults with a chronic disease". PI: Engelen (\$50,000.00/\$12,612.00)	2018
3. CEHD Catapult grant: "Linking metabolic phenotype to mood and neurocognitive functions in Autism Spectrum Disorder". PI: Lieben. Role on project: CoI (\$30,000/\$7,500.00)	2018
4. Arkansas Children's Hospital Research Institute / Arkansas Biosciences Institute "Longitudinal assessment of fat free mass index and its impact on lung health and overall health metrics in pediatric patients with cystic fibrosis". PI: Com, Role on project: Co-I (\$100,000/\$7,362.00)	2014
5. University of Arkansas for Medical Sciences, Medical Research Endowment Fund: "Essential amino acid intake to optimize protein anabolism in elderly Chronic Obstructive Pulmonary Disease patients with muscle wasting". Role on project: PI (\$25,000.00/\$25,000.00)	2010

6. Children's University Medical Group Fund Program: Seed Money for Young Investigators. "Study on the development and applicability of a new stable isotope method to determine protein requirements in critically ill children". Role on project: PI (\$40,000.00/\$20,000.00)	2010
7. Arkansas Children's Hospital Research Institute / Arkansas Biosciences Institute Program support: New Program Development: "Amino acid intake to counteract muscle wasting in children with chronic and acute diseases". Role on project: Co-PI (\$103,000/\$51,500.00)	2010

Previously funded/ completed projects industry (Award amount/ Amount attributable to Engelen)	
1. Abbott Nutrition. "Human Metabolism of HMB: A Feasibility Study". Role in Project: PI: Deutz. Role on project: Col. (\$221,609.87/\$110,817.94)	2018
2. Abbott Nutrition. A Randomized Double Blinded Controlled Trial of an Oral Nutritional Supplement Containing AN 777 in Older Hospitalized Patients. PI: Deutz. Role on project: Col (\$49,896.00/\$9,979.20)	2017
3. BL20 CSA - Abbott Nutrition. Evaluation of AN777 on Lean Body Mass in Healthy Older Subjects During Bed Rest and Recovery. PI: Deutz. Role on project: CoPI (\$1,758,410/\$880,369.94)	2017
4. Baxter Healthcare Corporation. Determination of the Optimal Infusion Rate of Amino Acids in Seriously Ill Patients - Clinical Study Agreement Protocol No.: CT-12-0012. PI: Deutz. Role on project: Col (\$381,861.00/\$76,372.38)	2015
5. Abbott Nutrition. Feasibility of Novel Laboratory Methods for Use in Nutrition Studies. PI: Deutz. Role on project: Col (\$164,939.00/\$82,469.00)	2017

Patents	
1. Deutz NEP, Lighthart-Melis GC, Engelen MPKJ, Ten Have GAM. Methods for diagnosing impaired absorption of amino acids, monosaccharides and fatty acids. US 10,234,448 B2	2019
2. Deutz NEP, <u>Engelen MPKJ</u> , Com G, Thaden JJ. Methods for Measuring Fat Digestibility and Uses Thereof. US 10,175,245 B2	2019
3. Deutz NEP, Lighthart-Melis G, <u>Engelen MPKJ</u> , Ten Have GAM. Methods for Diagnosing Impaired Absorption of Amino Acids, Monosaccharides and Fatty Acids. US 15/287,420	2017
4. Deutz NEP, <u>Engelen MPKJ</u> . Methods of Metabolic Kinetic Phenotyping and Uses of Thereof. US 15/180,571.	2016
5. Deutz NEP, <u>Engelen MPKJ</u> , Com G, Thaden JJ. Methods for Measuring Fat Digestibility and Uses Thereof. US 14/543,026	2015

6. Deutz NEP, Engelen MPKJ, Com G, Thaden JJ, inventors; Google Patents, assignee. Methods of Measuring Protein and/or Fat Digestibility and Uses Thereof. US 14/031,921.	2014
7. Engelen MPKJ, Deutz NEP, Schols AMWJ, Wouters EFM. Compositions and methods for improving the condition of patients suffering from Chronic Obstructive Pulmonary Disease and other acute and chronic related disorders. United States patent and trademark office pre-grant publication. European patent application. Patent cooperation treaty application. Patent: PCT/EP 04/00151`	2003

Editorships	
1. Associate Editor, Clinical Nutrition-ESPEN	2020-pres
2. Section editor, Current Opinion in Clinical Nutrition and Metabolism "Translational Research in Wasting Disease".	2018-pres
3. Associate editor, Clinical Nutrition-ESPEN	2017-pres

Reviewer	
1. Reviewer grant proposals National Science Center - international	2019
2. Reviewer abstracts Annual conference European Society of Parenteral and Enteral Nutrition	2008-pres
3. Ad Hoc Peer reviewer journals: <ul style="list-style-type: none"> a. American Association of Clinical Endocrinologists journal b. American Journal Respiratory and Critical Care Medicine c. American Journal Clinical Nutrition d. BioMed Research International e. British Journal Nutrition f. Chest g. Clinical Nutrition h. Clinical Nutrition-ESPEN i. Clinical Interventions in Aging j. Clinical Science k. European Respiratory Journal l. Journal of COPD m. Journal Applied Physiology n. International Journal of COPD o. Journal American College Nutrition p. Journal Cystic Fibrosis q. Journal of Cachexia, Sarcopenia and Muscle r. Journal International Medical Research s. Journal Nutrition, Health and Aging 	2000-pres

<ul style="list-style-type: none"> t. Medicine & Science in Sports & Exercise u. Metabolism v. Nutrients w. Nutrition x. PLOS one y. Scandinavian Journal Medicine Sciences and Sports z. The Journal of Nutrition, Health & Aging aa. Thorax 	
---	--

Teaching / Mentoring

Student/Scholar Mentee Awards	
<i>Agata McNew</i> (Chair of PhD Committee)	
1. College of Education and Human Development Strategic Research Award (\$34,895.00??)	2021
2. Scholarship award Kosciuszko Foundation (Polish-American) (\$3000)	2020
3. Huffines Student Research Award "Disturbances in methionine-homocysteine metabolism in (morbid) obesity" (\$1500)	2020
4. ESPEN travel award (\$1000) "Impaired whole-body arginine metabolism in type 2 diabetes."	2020
5. Huffines Travel grant "Wierzchowska-McNew, R.A., Engelen, M.P.K.J, Simbo, S.S., Deutz, N.E.P. Resting: "Resting Energy Expenditure changes after 2 weeks of the Very Low-Calorie Diet are associated with baseline production rates of specific amino acids". (\$800)	2019
6. Huffines Student Research Grant "Lipid metabolism in morbid obesity, the contribution of fat kinetics to weight loss variability" (\$1,500)	2019
7. College of Education and Human Development Strategic Research Award (\$34,895.00)	2019
8. College of Education and Human Development Graduate Research Grant "Fat metabolism in type 2 diabetes mellitus". (\$1132).	2019
9. American Thoracic Society Student scholar program "McNew A, Deutz N.E.P., Simb S., Thaden J, Ten Have G.A.M., Engelen M.P.K.J. Protein digestion but not amino acid absorption is compromised during feeding in Chronic Obstructive Pulmonary Disease". (\$300)	2019
10. Highest scoring conference abstract from the USA. Oral Presentation. Clinical Nutrition 37, S160-S161. Travel Award: European Society for Clinical Nutrition and Metabolism "Wierzchowska-McNew, A., Engelen, M.P.K.J, Knoop, K. D., Ten Have, G. A., Thaden, J. J., Deutz, N.E.P. Total weight loss obtained after 2 weeks of very low caloric diet is strongly associated with baseline (net) protein catabolic and glutamine production rates". Madrid, Spain 2018. (\$567.00)	2018

11. Travel Award: Office of Graduate and Professional Studies, TAMU. Poster Presentation Madrid, Spain. Clinical Nutrition. 37, S16-S17. "Wierzchowska-McNew, A., Engelen, M.P.K.J., Knoop, K. D., Deutz, N.E.P. Two weeks of very low-calorie diet maintain protein and amino acid turnover despite a large reduction in muscle mass". (\$1,000.00)	2018
12. Research Award: European Society for Clinical Nutrition and Metabolism "Triheptanoin treatment and restoring intermediary metabolism in type 2 diabetes". (\$55,634.37)	2015
<i>Barbara van der Meij, PhD</i> (Mentor of Post-Doctoral fellow)	
1. <i>Research Award</i> : European Society for Clinical Nutrition and Metabolism "Metabolic Effects of Chemotherapy and the Clinical Effects of Nutritional Intervention in Cancer". (\$66,176.00)	2013
<i>Clayton Cruthirds</i> (Chair of PhD Committee)	
1. College of Education and Human Development, Texas A&M University, Honors Graduate	2021
1. Health and Kinesiology, Texas A&M University, Doctor of Philosophy, Honor Graduate	2021
1. Carolyn S. Lohman/Heep Fellowship, Texas A&M University (\$10,000)	2020
2. European Society for Parenteral and Enteral Nutrition. Krakow, Poland. 2019 Highest scoring US conference abstract of 500 submitted. Travel Award. "Cruthirds CL, Deutz NEP, Harrykissoo R, Engelen MPKJ. Functional Performance is Preserved in COPD with Abdominal Obesity Despite Gender Specific Disturbances in BCAA Metabolism." (\$600)	2019
3. College of Education and Human Development Strategic Research Award (\$34,895.00)	2019
4. CEHD graduate research grant "MEtabolism of Disease with Isotope Tracers" (\$1132)	2019
5. American Thoracic Society Student scholar program "Cruthirds C, Deutz N.E.P., Engelen M.P.K.J. Skeletal muscle weakness is associated with specific alterations in amino acid metabolism in patients with Chronic Obstructive Pulmonary Disease". (\$300)	2019
6. Research Award: College of Education and Human Development, TAMU "Skeletal muscle metabolic response to leg exercise in COPD as assessed by nuclear magnetic resonance". (\$845.00)	2018
7. Research Award: College of Education and Human Development, TAMU "The effects of acute resistance exercise on protein and amino acid metabolism in COPD". (\$1,500.00)	2017
8. Research Award: College of Education and Human Development, TAMU "The effects of land treadmill exercise on gut function in COPD". (\$1,500.00)	2017
9. European Society for Parenteral and Enteral Nutrition. Hague Netherlands. 2017 Highest scoring conference abstract of 500 submitted. Travel Award: European Society for Clinical Nutrition and Metabolism "High intensity resistance exercise induces whole body protein catabolism in patients with chronic obstructive pulmonary disease." (\$600.00)	2017

10. Research Award: European Society for Clinical Nutrition and Metabolism "Exercise induced gut dysfunction and the anabolic response to feeding in patients with Chronic Obstructive Pulmonary Disease and Chronic Heart Failure". (\$56,709.00)	2016
11. Research Award: College of Education and Human Development, TAMU "The effects of acute resistance exercise on protein and amino acid metabolism in COPD. (\$500.00)	2016
12. Texas chapter of the American College of Sports Medicine. College Station USA. Top 7 proposal of all submitted, 2015. Research Award: Texas chapter of the American College of Sports Medicine "Cruthirds C, Thaden J, Deutz NEP, Engelen MPKJ. The effects of acute resistance exercise on protein and amino acid metabolism in COPD." (\$1,500.00)	2015
<i>Erica Rutten (Member of PhD committee)</i>	
1. <i>Research Award:</i> European Society for Clinical Nutrition and Metabolism "Effects of glutamate ingestion on protein metabolism and exercise capacity in COPD patients at rest and during exercise". (\$19,000.00)	2001
<i>Gabriella ten Have (Member of PhD Committee)</i>	
1. <i>Research Award:</i> European Society for Clinical Nutrition and Metabolism "Effect of enteral nutritional intervention on glutathione metabolism during Pseudomonas aeruginosa induced sepsis in the pig". (\$34,180.00)	2012
<i>Gerdien Melis, PhD (Mentor of Research Assistant Professor)</i>	
1. <i>Research Award:</i> European Society for Clinical Nutrition and Metabolism "Protein requirements and the effects of chemotherapy on protein digestion and absorption capacity in patients with pancreatic cancer". (\$56,709.00)	2014
<i>Jaekwan Park (Chair of Masters Committee)</i>	
1. Huffines Travel grant "Associated factors of exercise induced oxygen desaturation in COPD" (\$800)	2019
2. College of Education and Human Development Graduate Research Grant "Use of the Oxycon device to measure continuous systemic oxygen desaturation measurement during acute exercise testing and daily life activities and the association with systemic health problems in COPD" (\$1,132)	2019
3. Huffines Student Research Grant (\$1,500)	2019
4. Strategic scholarship. College of Education and Human Development, Texas A&M University (\$1000)	2019
5. Competitive Scholarship Tuition Waiver Dept Health and Kinesiology, Texas A&M University(\$5,203)	2019
6. <i>American Thoracic Society Student scholar program</i> "Park J.K., Deutz N.E.P., Byju A., Reddy C., Park H., Cruthirds C., Jeon B. Kirschner S. Madigan M., Engelen M.P.K.J. Use of oxygen therapy, cognitive dysfunction and comorbidities are risk factors for impaired balance function in Chronic Obstructive Pulmonary Disease". (\$300)	2019
7. Sydney and J.L. Huffines Institute for Sports Medicine and Human Performance <i>Graduate student Travel award</i> (\$800)	2019

8. <i>Emil Mammy Mamaliga '50 Memorial Scholarship. Tuition Award: The Association of Former Students, TAMU (\$1,129.00)</i>	2018
9. <i>General Scholarship. Tuition Award: TAMU (\$371.00)</i>	2018
10. <i>Graduate Strategic Scholarship. Tuition Award: TAMU (\$1,687.00)</i>	2017
11. <i>HLKN Graduate Scholarship. Tuition Award: Department of Health & Kinesiology, TAMU (\$1,093.00)</i>	2017
<i>Kristina Cross (Member graduate Committee)</i>	
1. Graduate award CEHD TAMU	2020
2. Emerging Leaders in Nutrition Science Award. American Society Nutrition, Seattle "Comparable Organ Protein Fractional Synthesis Rate of High and Low-Active Mice".	2020
<i>Renate Jonker (Member of PhD Committee)</i>	
1. <i>Travel Award: European Society for Clinical Nutrition and Metabolism "R Jonker, NE Deutz, EA Veley, R Harrykisson, A Zachria, MP Engelen. The Anabolic Properties of Casein Hydrolysate are not Modified by Adding Either Leucine, Carbohydrates or Both in Healthy Older Adults and Copd Patients". Lisbon, Portugal 2015. Clinical Nutrition 34, S232. (\$750.00)</i>	2015
2. Highest scoring conference abstract of 550 abstracts. Clinical Nutrition 32, S5-S6. <i>Travel Award: European Society for Clinical Nutrition and Metabolism "R Jonker, N Deutz, M Erbland, P Anderson, M Engelen. Whole body de novo arginine production and nitric oxide synthesis are reduced in patients with Chronic Obstructive Pulmonary Disease." Leipzig, Germany 2013. (\$750.00)</i>	2013
3. <i>Research Award: European Society for Clinical Nutrition and Metabolism "Polyunsaturated fatty acid supplementation to stimulate meal-induced net protein synthesis in muscle of patients with Chronic Obstructive Pulmonary Disease". (\$28,356.00)</i>	2010
<i>Sarah Kirschner (Co-chair of PhD Committee)</i>	
1. College of Education and Human Development Strategic Research Award (\$34,895.00??)	2021
1. Huffines Research award (\$1500) "Are disturbances in plasma short-chain fatty acid concentrations associated with impaired muscle function and psychological well-being in cancer patients?"	2020
1. College of Education and Human Development Strategic Research Award (\$35,895.00)	2020
2. "Transorgan Kinetics of Short-Chain Fatty Acids (SCFAs) in the Pig". Huffines Travel grant" (\$800)	2019
3. Research Award: European Society for Clinical Nutrition and Metabolism "The Intestinal Microbiota as a Mediator Between Diet and Chronic Obstructive Pulmonary Disease". (\$44,500.00)	2019
4. Research Award: College of Education and Human Development, TAMU "Transorgan short-chain fatty acid fluxes in a healthy, conscious pig model". (\$1,132.00)	2019

5. Huffines Student Research Grant "The acute effect of moderate aerobic exercise on plasma short-chain fatty acid concentrations in Chronic Obstructive Pulmonary Disease". (\$1500)	2019
6. American Thoracic Society Student scholar program "Kirschner S., Deutz N.E.P., Jonker R, McNew-Wierschowska, Olde Damink S, Harrykisson R, Zachria A, Engelen M.P.K.J. Small intestinal dysfunction attenuates the anabolic response to feeding and compromises daily functioning in patients with Chronic Obstructive Pulmonary Disease. (\$300)	2019
7. Research Award: College of Education and Human Development, TAMU "The intestinal microbiota as a mediator between diet and Chronic Obstructive Pulmonary Disease". (\$845.00)	2018
8. American Society for Nutrition, Boston USA, 2018. Poster presentation. Travel Award: Office of Graduate and Professional Studies, TAMU "Kirschner SK, Deutz NEP, Simbo SY, Engelen MPKJ. Whole body short-chain fatty acid production is not disturbed in patients with Chronic Obstructive Pulmonary Disease with mild gastrointestinal symptoms." (\$500.00)	2018
<i>Sunday Simbo, PhD</i> (Mentor of Post-Doctoral fellow)	
1. <i>Research Award</i> : European Society for Clinical Nutrition and Metabolism "Role of metabolic phenotyping, changes in gut function, and the response to a meal to explain the variability in weight loss induced by Very Low Calorie Diet in (morbidly) obese adults". (\$56,709.00)	2017
<i>Sofie Dewandel</i> (Chair of PhD Committee)	
1. <i>Jane and Collie Conoley Fellowship</i> , Texas A&M University (\$2000)	2020
2. Emerging Leaders in Nutrition Science Abstract Recognition Award. American Society Nutrition. "Altered glutamate and glutamine kinetics in Autism Spectrum Disorder"	2021

Teaching Assignments	
1. Instructor Exercise physiology seminar - KINE 681-601	2020-2021
1. Instructor Reading Human (clinical) Research Publications in Kinesiology manuscripts - KINE 601-600, Texas A&M University	2019-pres
2. Instructor Reading Human (clinical) Research Publications in Kinesiology manuscripts - KINE 601-602, Texas A&M University	2019-pres
3. Instructor + curriculum development: Special Topics: Methods in Human Clinical Research - KINE 689, Texas A&M University.	2018-pres
4. Instructor + curriculum development: Special Topics: Introduction in Human Clinical Research - KINE 689, Texas A&M University.	2017-pres
5. Instructor + curriculum development: Planning and conduct of human clinical research - KINE 482, Texas A&M University. Teaching + curriculum development	2017-pres
6. Instructor + curriculum development: Critical Review of Manuscripts in Clinical Research seminar, KINE 681(604), Texas A&M University.	2016-pres

7. Instructor + curriculum development: Introduction in human clinical research I, KINE 682(600), Texas A&M University.	2015
8. Tutor for European Intensive Course on Clinical Nutrition, Maastricht, Netherlands	2002-2003
9. Workshop exercise practicum for Institute for postgraduate education on nutrition and metabolism in disease, Maastricht, Netherlands	1999-2001
10. Tutor several courses for students Health Sciences, Maastricht University, Maastricht, Netherlands	1996-2000

Teaching Evaluations		
2016 Fall	Seminar (KINE 682-600)	4.82
2016 Fall	Seminar (KINE 681-604)	4.96
2017 Spring	Seminar (KINE 681-605)	4.92
2017 Spring	Intro (KINE 689-600)	4.90
2017 Fall	Seminar (KINE 682-603)	tbd
2018 Spring	Intro (KINE 689-600)	N/A
2018 Fall	Seminar (KINE 682-603)	tbd
2018 Fall	Methods (KINE 689-600)	tbd
2018 Spring	Intro (KINE 689-600)	???
2019 Fall	Methods (KINE 689-600)	4.45
2019 Fall	Reading (KINE 601-600)	4.35
2020 Fall	Reading (KINE 601-600)	4.46
2020 Fall	Methods (KINE 689-600)	4.01
2020 Fall	Seminar Exercise physiology (KINE 681-601)	4.17

Supervisor / Mentor of Graduate and Undergraduate Students	
1. Supervisor graduate and undergraduate Directed studies KINE 685 and 491(502), Texas A&M University (57 students)	2012-pres

2. Mentor and committee chair/member of PhD students, Texas A&M University Chair/co-chair (n=5): Clayton Cruthirds, Agata McNew, Sarah Kirschner, J.K. Park, Sofie DeWandel, Committee member (n=5): Renate Jonker, Gabriella ten Have, Tray Carrell, Yiyu Wang, Sara Safdari	2012-pres
3. Committee chair/member of graduate students, Texas A&M University Chair/co-chair (n=1): J.K. Park, Committee member (n=1): Kristina Cross	2018-pres.
4. Mentor and committee chair/member of international BSc and MSc students, Center for Translational research on Aging and Longevity, Texas A&M University (n=19): T. Smit, R. Gonzales Camargo, A. Gomez, S. Kruijning, A. Mason, T. de Crom, L. de Smalen, I. Rijnaarts, A. Salentijn, J. Siemons, O. Popoola, O. Rahaman, MS Jeon, S. Kirschner, A. McNew, J. Schmidt, R. de Paus, JK. Park, D. Ramadhin, J Weits	2012-pres.
5. Mentor and committee member of PhD students University of Arkansas for Medical Sciences, Little Rock Arkansas (Carlijn de Betue, Renate Jonker, Gabriella ten Have)	2007-2012
6. Supervisor of international BSc and MSc students at University of Arkansas for Medical Sciences, Little Rock Arkansas (n=12), A. Klopman, R. Jonker, K. vd Hoorn, I. Henriques, M. Resende, S. Stossel, R. Schroder, N. Aarts, A. Allasia, E. Haagen, F. Koeman, E. Awad)	2007-2012
7. Mentor and committee member of PhD student Maastricht University, The Netherlands (Erica Rutten)	2000-2005
8. Supervisor of PhD students Maastricht University, Maastricht, Netherlands	2000-2005

Mentor of (Visiting) Research Scholars	
1. Mentor Research Assistant Professors (D. Walker, C. Lieben, G. Melis-Ligthart), Postdoctoral students (B. vd Meij), Center for Translational Research on Aging and Longevity, Texas A&M University	2012-pres
2. Mentor International Research scholars (N. Rotovnik, Y. Mizubuti, B. Hwan Jeon, L. Cavka), Center for Translational Research on Aging and Longevity, Texas A&M University	2012-pres

Educational Activities	
1. Life Long Learning (LLL) Programme. Nutritional support in pulmonary diseases: "Evidence based management of pulmonary cachexia". ESPEN conference	2021
1. Exercise science seminar "Efficacy of nutritional interventions targeting muscle in chronic diseases", Dept Health and Kinesiology, Texas A&M University	2018
2. Seminar "Healthy aging for women". TAMU Women Group, College Station, TX	2018
3. Seminar "CTRAL and healthy aging research" Recruitment Partners College Station Meet & Greet	2017

4. Seminar "The Importance of Muscle Mass, Dietary Protein & Exercise in Healthy Aging & Aging associated Chronic diseases". TAMU Women Group, College Station, TX	2017
5. Seminar "Dietary Protein & Exercise in Healthy Aging & COPD". Better Breathers Brenham & College Station.	2017
6. Seminar "Effects of Chemotherapy and Nutritional intervention on metabolism and function in cancer: A randomized double-blind placebo controlled design". Graduate (Masters (Advanced) & PhD course, Foundations of Clinical Translational Science. Texas A&M University, College Station, TX	2016
7. Seminar "Clinical research trial at CTRL". Graduate (Masters (Advanced) & PhD course, Foundations of Clinical Translational Science. Texas A&M University, College Station, TX	2015
8. Lectures "Clinical research trial at CTRL: "Effects of Chemotherapy and Nutritional intervention on metabolism and function in cancer: A randomized double-blind placebo controlled design: Part 1 + 2". Graduate (Masters (Advanced) & PhD course, Foundations of Clinical Translational Science. Texas A&M University, College Station, TX	2014
9. Lecture "Effects of Chemotherapy and Nutritional intervention on metabolism, clinical and overall outcome in cancer". MD Anderson, Houston, TX	2014
10. Lectures assisted living homes "Eating Right and Staying Fit". College Station, TX	2014 - 2017
11. Lecture "Metabolic disturbances in COPD patients recovering from an acute exacerbation and effects of Nutritional Intervention". Dept Pulmonology, College Station Med Center.	2014
12. Lecture "Effects of Chemotherapy and Nutritional intervention on metabolism and function in cancer". Dept. Oncology Scott & White, College Station, Texas	2013
13. Lecture "Research at CTRL: Nutrition and protein metabolism in COPD", Pulmonologists Scott & White and College Station Medical Center, College Station, Texas	2012
14. Lecture "Protein wasting and the role of nutrition in Chronic Obstructive Pulmonary Disease", UAMS Medical Students, University of Arkansas for Medical Sciences, Little Rock, Arkansas	2012
15. Geriatric Grand Rounds "Nutrition and the effects of exacerbations in chronic wasting diseases", University of Arkansas for Medical Sciences, College of Medicine, Little Rock, Arkansas	2011
16. Geriatric Grand Rounds "Chronic Obstructive Pulmonary Disease: a chronic protein wasting syndrome", University of Arkansas for Medical Sciences, College of Medicine, Little Rock, Arkansas	2008
17. Lecture "Skeletal muscle dysfunction and exercise impairment in Chronic Obstructive Pulmonary Disease". European clinical exercise practicum. Maastricht, Netherlands	2004
18. Lecture "Chronic Obstructive Pulmonary Disease: a model of clinical depletion". Advanced Course in Clinical Nutrition. Maastricht, Netherlands	2003
19. Lecture "Chronic wasting diseases" European Intensive Course on Clinical Nutrition. Maastricht, Netherlands	2002 - 2003

20. Annual lecture for students Healthy Sciences "Energy metabolism and body composition in Chronic Obstructive Pulmonary Disease". Maastricht University, Maastricht, Netherlands	2000 - 2003
21. Lecture "Chronic wasting syndrome: Etiology of tissue wasting and Nutritional strategies". Advanced Course in Clinical Nutrition. Maastricht, Netherland	2002
22. Tutoring several groups of international post graduate students for European Intensive Course on Clinical Nutrition, Maastricht, Netherlands	2002 - 2003
23. Lecture post-graduate course in Nutrition and Toxicology Institute Maastricht, "Protein and amino acid metabolism in health and disease: Methodology and interpretation", Maastricht University, Maastricht, Netherlands	2001
24. Annual lecture "Disturbances in energy metabolism and body composition in Chronic Obstructive Pulmonary Disease". Students Health Sciences (Human Biology) Course 3.8, Maastricht University, Maastricht, Netherlands	2000 - 2003
25. Lecture "VO ₂ kinetics". Masterclass Karlman Wasserman on Exercise and gas exchange. Maastricht University, Maastricht, Netherlands	2000
26. Lecture "Muscle wasting and protein kinetics in Chronic Obstructive Pulmonary Disease". Masterclass Vernon Young on Protein and amino acid requirements. Maastricht University, Maastricht, Netherlands	2000
27. Annual workshop "Exercise practicum". Institute for Postgraduate Education on Nutrition and Metabolism in Disease. Maastricht, Netherlands	1999 - 2001
28. Annual workshop "Exercise testing in wasting diseases". Postgraduate Course Nutrition and Metabolism in Disease. Vaals, Netherlands	1998 - 2002
29. Tutoring for several courses for students Health Sciences, Maastricht University, Maastricht, Netherlands	1996 - 2000

SERVICE

Service / Leadership	
1. Jury Vernon Young Award for Amino Acid Research. American Nutrition Society	2021
1. Reviewer Catapult grant proposals, Texas A&M University	2019-2020
2. Reviewer PESCA grant proposals, Texas A&M University	2017-2018
3. Judge Student Research Week, Texas A&M University	2017
4. Organiser and coordinator monthly CTAL seminar "Current Topics in Translational Research" for faculty and students across Texas A&M University	2016-pres
5. Co-Director Center for Translational Research on Aging and Longevity, Texas A&M University	2013-pres
6. Member graduate faculty, Dept of Nutrition and Food sciences, Texas A&M University	2013-pres
7. Co-chair newcomers group & board member, Texas A&M women's group	2013-2014

8. Member graduate faculty, Dept of Health and Kinesiology, Texas A&M University	2012-pres
9. Director weekly human metabolic research meeting Center for Translational research on Aging and Longevity, Texas A&M University	2012-pres.
10. Director biweekly Journal club meeting Center for Translational research on Aging and Longevity, Texas A&M University	2012-pres.
11. Head Clinical Research, Center for Translational research on Aging and Longevity, Texas A&M University, College Station, TX, Directing > 40 human clinical research studies on a daily basis. Supervisor of research nurses (n=7: Elizabeth Martinez, Holly Kleypas, Cindy Roberts, Cassi Walkoviak, Sandra Russell, Blair Tucker, Brenda Douglas), assistants (n=5: Fari Koeman, Renate Jonker, Tiffany Smit, Deanne Stastny, Carmen Garcia) and associates (n=2: Laura Ruebush, Sunny Simbo) clinical research studies	2012-pres
12. Founder and director bi(weekly) metabolic research meeting for research faculty, research staff, physicians and students	2007-2010
13. Director Clinical Research. Director of research staff clinical research studies, University of Arkansas for Medical Sciences, Little Rock Arkansas. Supervisor of research assistants clinical research studies (n=5: Maria Bogachova, Arianna Allasia, Fari Koeman, Renate Jonker, Loes Neven)	2006-2012
14. Director of the Metabolic Clinical Research Ward, Maastricht University Hospital, Maastricht, Netherlands	2005-2006
15. Founder and director bi(weekly) metabolic research meeting for research faculty, research staff, physicians and students	2007-2012
16. Director Research laboratory. Director of research staff clinical research studies Maastricht University Hospital, Maastricht, Netherlands. Supervisor of research assistants clinical research studies	2000-2006

Committee Assignments and Administrative Services University / College / department	
1. Member Kinesiology review (A1) committee Dept. Health and Kinesiology, Texas A&M University	2019-pres
2. Member Work team retreat and strategic planning process, College of Education and Human Development, Texas A&M University	2018-2019
3. Member Council of Principal Investigators, College of Education and Human Development, Texas A&M University	2018-pres
4. Member Assistant Professor Motor Neuroscience search committee, Dept. Health and Kinesiology, Texas A&M University	2018-2019
5. Member graduate student selection committee Dept. Health and Kinesiology, Texas A&M University	2017-pres
6. Member Assistant Professor Motor Neuroscience search committee, Dept. Health and Kinesiology, Texas A&M University	2017-2018

7. Member Department head search committee, Dept. Health and Kinesiology, Texas A&M University	2016-2017
8. Promotion and Tenure Committee, Dept. Health and Kinesiology, Texas A&M University	2012-pres
9. Safety Officer for Data Safety Monitoring Board: "An exercise and nutritional intervention for deconditioned older adults". VHA RR&D Number E7142R, PI: P Kortebein	2010-2012

Professional membership	
Member Society Sarcopenia, Cachexia and Muscle	2020-pres
Member European Society Clinical Nutrition	2017-pres
Member American Society of Nutrition	2017-pres

Certification and Licensure	
1. American Heart Association Certification	2016-pres
2. DOT Certification (#9453)	2010-pres
3. CITI and HIPAA certification (#2754579)	2007-pres
4. Laboratory Animal Medicine (DLAM: #1850-07)	2007-pres

Community Outreach	
1. St. Joseph Cardiac/Pulmonary Rehab. Audience: Hospital staff	2019
2. World COPD Awareness Open House. Audience: Older adults in Brazos Valley	2019
3. CPHA Diabetes Awareness event. Audience: Older adults in Brazos Valley	2019
4. Take Diabetes to Heart. Audience: Older adults in Brazos Valley	2019
5. YAP Camp "Sports Medicine Group". Audience: High school students from Texas	2019
6. CHI St Joseph Nutrition. Audience: Older adults at St Joseph nutrition center	2019
7. Better Breathers - College Station. Audience: Older adults in Brazos Valley	2019
8. Veterans Legion. Audience: Older adults in Brazos Valley	2019
9. Breathing Centers of Houston - Better Breathers Group - Katy Office. Older adults in Greater Houston Area	2019
10. Morning Lion's Club - College Station. Audience: Older adults in Brazos Valley	2018
11. Better Breathers - Brenham. Audience: Older adults in Brazos Valley	2018
12. Senior Games - City of College Station. Audience: Older adults from Texas	2018
13. Breathing Centers of Houston. Audience: Older adults in Greater Houston Area	2018
14. Better Breathers - College Station. Audience: Older adults in Brazos Valley	2017, 2018
15. Recruitment Partners Meet & Greet. Audience: Local home health & rehabilitation owners	2017
16. Caldwell Senior Lunch. Audience: Older adults in Brazos Valley	2017

17. Rotary Club of Caldwell. Audience: Older adults in Brazos Valley	2017
18. Forevercise. Audience: Older adults in Brazos Valley	2017
19. Relay for Life. Audience: Cancer survivors & support groups	2016
20. Leaps for Autism. Audience: Autism & support group	2016
21. Participant Thank You BBQ. Audience: CTRAL participants & family	2016
22. Arbor Oaks at Crestview. Audience: Older adults in Brazos Valley	2016
23. Brazos Valley Area Agency on Aging. Audience: City leaders & business owners	2016
24. Brazos Valley Area Agency on Aging. Audience: City leaders & business owners	2015
25. Senior Expo. Audience: Older adults in the Brazos Valley	2014
University Outreach	
1. HLKN Research Day	2019
2. Undergraduate Research Expo. Audience: TAMU Students	2016, 2017, 2018,2019
3. College of Education Research Development Office Outreach Sessions	2017
4. CTRAL Symposium on Muscle and Fat Metabolism. Audience: TAMU Faculty, Staff & Students	2015

PRESENTATIONS

Invited Presentations at (inter)national conferences and symposia	
1. Muscle wasting and dysfunction in COPD patients. EUGMS, Krakow, Poland	2019
2. ESPEN Symposium, Madrid. Spain: “ β -Hydroxy β -Methylbutyrate (HMB) to stimulate anabolism in acute and chronic disease”	2018
3. ASPEN Nutrition Science and Practice Conference, Las Vegas, USA. “HMB to stimulate protein anabolism in chronic disease”.	2018
4. European Society of Parenteral and Enteral Nutrition Conference. The Hague, Netherlands. “Efficacy of nutritional interventions targeting muscle healthy in chronic diseases”	2017
5. KEPAN Antalya. Protein turnover and the anabolic response to nutrition in Respiratory disease.	2017
6. American Society Parenteral Enteral Nutrition, Clinical Nutrition Week. Austin, TX. “Net Protein Anabolism and Chronic Disease in the Older Adult”.	2016
7. 8th International Conference on Cachexia, Sarcopenia & Muscle Wasting, Paris, France: “Protein turnover and the response to nutrition in muscle wasting: Respiratory diseases”	2015
8. Cystic Fibrosis Center. Arkansas Children’s Hospital, Little Rock, AR: “Cystic Fibrosis and the role of dietary proteins”	2015

9. American aging association meeting, Los Angeles. Protein Anabolism and metabolic kinetic phenotyping in older adults with chronic disease and cancer.	2015
10. American Society Parenteral Enteral Nutrition Research symposia, Savannah, GA. "Nutritional intervention in cancer cachexia"	2014
11. European Society of Parenteral and Enteral Nutrition Conference. Geneva, Switzerland. "Surgery reduces de novo Arginine production independent of the presence of Breast cancer"	2014
12. Ajinomoto. Tokyo, Japan "Dietary essential amino acids are highly anabolic in Chronic Obstructive Pulmonary Disease and Cystic Fibrosis".	2013
13. European Society of Paediatric Neonatal Intensive Care. Rotterdam, The Netherlands. "24-Hour protein, arginine and citrulline metabolism in fed critically ill children does not show a circadian rhythm".	2013
14. International conference in Protein and amino acid metabolism, Padua, Italy. "Protein disturbances in Cystic Fibrosis".	2008
15. Clinical Nutrition Week. Orlando, Florida. "Protein and amino acid supplementation and modulation: a novel strategy to fight cachexia in Chronic Obstructive Pulmonary Disease?".	2005
16. Clinical Nutrition Week. Las Vegas, Nevada. "Cachexia in Chronic Obstructive Pulmonary Disease and cancer".	2004
17. European Society of Parenteral and Enteral Nutrition Conference. Cannes, France. "Chronic Obstructive Pulmonary Disease: a chronic wasting syndrome. Etiology of protein wasting".	2003
18. Novartis meeting. Geneve, Switzerland. "Glutamate and branched-chain amino acid metabolism in relation to aging and chronic obstructive pulmonary disease".	2003

Presentations at regional conferences/symposia and seminars	
1. Grand challenges Mini-symposium Texas A&M University. A Fearless Campaign to Address the Grand Challenge of Primary Cancer Prevention: Theme area "Exercise"	2017
2. Texas A&M Women group "The Importance of Muscle Mass, Dietary Protein & Exercise in Healthy Aging & Aging associated Chronic diseases"	2017
3. Texas A&M University, Nutrition Seminar series, Department of Nutrition and Food Science "The importance of proteins in Cystic Fibrosis".	2015
4. Cystic Fibrosis parent symposia, College Station, TX: "Why proteins are so important in Cystic Fibrosis"	2014
5. Texas A&M University, Nutrition Seminar series, Department of Nutrition and Food Science "Alterations in protein and arginine metabolism underlying muscle wasting and dysfunction in Chronic Obstructive Pulmonary Disease".	2013
6. Texas A&M University, Health and Kinesiology Exercise physiology seminar. "Muscle wasting and the metabolic effects of nutrition and exercise in patients with lung disease".	2012

7.	College of Education and Human Development. Dean's advisory council meeting. "Translational Research in Aging and Longevity".	2012
8.	Arkansas Children's Hospital, Little Rock, Arkansas. "Current data of studies at ACH and UAMS on Nutrition and Metabolism in CF", Cystic Fibrosis Quality Improvement meeting."	2012
9.	Arkansas Children's Hospital, Little Rock, Arkansas. "Nutrition and metabolism in Cystic Fibrosis", Cystic Fibrosis Quality Improvement meeting."	2011
10.	Veteran Affairs North Little Rock, Arkansas. "Chronic Obstructive Pulmonary Disease as a chronic wasting syndrome: The effects of protein supplementation."	2010
11.	Research faculty meeting Pediatric Pulmonology. Arkansas Children's Hospital, Little Rock, Arkansas. "Development of an innovative panel of methods to measure intestinal macronutrient digestion, absorption, and function."	2010
12.	Research faculty meeting Pediatric Pulmonology. Arkansas Children's Hospital, Little Rock, Arkansas. "Leucine-enriched essential amino acid intake to optimize protein anabolism in pediatric subjects with Cystic Fibrosis."	2009
13.	Netherlands Asthma Foundation Symposium. Utrecht, Netherlands. "Disturbances in glutamate metabolism in Chronic Obstructive Pulmonary Disease".	2003
14.	Dutch Association of physicians for lung diseases and tuberculosis. Nijmegen, Netherlands. "Metabolic alterations in muscle and muscle dysfunction in COPD".	2002
15.	Nutrition and toxicology research institute Maastricht, Netherlands. "Amino acid and protein metabolism in chronic wasting disease".	2001
16.	Longdag, Maastricht University, Maastricht, Netherlands. "Exercise induced lactate increase in relation to physical activity and peripheral skeletal muscle substrates in patients with Chronic Obstructive Pulmonary Disease".	1999
17.	Dutch Association of physicians for lung diseases and tuberculosis. Utrecht, Netherlands. "Reduced substrate related oxidative metabolism in emphysema".	1998

Peer reviewed Abstract Poster and Oral Research Presentations at (inter)national conferences

[*= graduate student author]. Oral presentations: n=22

1. DeWandel S, Deutz N.E.P., Harrykissoon R., Zachria AJ, Cruthirds C, Engelen M.P.K.J. Mild Cognitive Impairment in COPD is associated with reduced functional performance, independent of disease characteristics, nutritional status, or plasma amino acid changes. 2021 European Society for Parenteral and Enteral Nutrition: Poster

2. Kirschner S.K., Engelen M.P.K.J., Ghane P., Deutz N.E.P. Compartmental tracer enrichment data analysis to measure intestinal short-chain fatty acid (SCFA) production in health and disease. 2021 European Society for Parenteral and Enteral Nutrition: Oral
3. Wierzchowska-McNew, RA, Deutz NEP, Simbo, SY, ten Have, GAM., Thaden, JJ, Engelen MPKJ. Enhanced anabolic capacity, but unchanged anabolic threshold in clinically-stable normal-weight patients with Chronic Obstructive Pulmonary Disease. 2021 European Society for Parenteral and Enteral Nutrition: Poster
4. Ten Have GAM, Thaden JJ, Pereira SL, Engelen MPKJ, Deutz NEP. β -Hydroxy β -methylbutyric acid (HMB) supplementation reduced whole body protein breakdown in the early recovery phase of sepsis in the pig. 2021 European Society for Parenteral and Enteral Nutrition: Oral
5. Pinson MR, Deutz NEP, Harrykissoon R, Zachria AJ, Engelen MPKJ. Disturbances in Large Neutral Amino Acid profile and poor daily functioning in mildly depressed Chronic Obstructive Pulmonary Disease patient: Poster
6. DeWandel S., Engelen M.P.K.J., Wierzchowska-McNew R.A, Thompson J., Kirschner S.K., , Cruthirds C.L., Ten Have G.A.M., Thaden J.J., Deutz N.E.P. Altered glutamate and glutamine kinetics in Autism Spectrum Disorder. 2021 American Society Nutrition. Online: Oral
7. Wierzchowska-McNew R.A., Engelen M.P.K.J., Knoop C.D., Kirschner S.K., Cruthirds C.L., Deutz N.E.P. Lower Plasma Short-Chain Fatty Acids Are Associated With Increased Leg Muscle Fatigue in (Morbidly) Obese Adults. 2021 American Society Nutrition. Online: Poster
8. Kirschner S.K., Deutz N.E.P., Safar A.M., Engelen M.P.K.J. Reduced Plasma Short-Chain Fatty Acid (SCFA) Concentrations are Not Associated with Markers of Muscle Health in Non-Small Cell Lung Cancer. 2021 American Society Nutrition. Online: Poster
9. Kirschner SK, Deutz NEP, Cruthirds CL, Engelen MPKJ. Impairments in small intestinal function are associated with reduced muscle quality in a group of Congestive Heart Failure and healthy participants. The 13th International SCWD Conference on Cachexia, Sarcopenia and Muscle Wasting. Online: poster/oral
10. Morse R, Ten Have GAM, Thaden JJ, Engelen MPKJ, Hagve M, Deutz NEP. The role of adipose tissue breakdown in the acute phase of sepsis: a comparison of interorgan fluxes of amino acids and glycerol in a *Pseudomonas aeruginosa* induced septic pig model. The 13th International SCWD Conference on Cachexia, Sarcopenia and Muscle Wasting. Online: poster/oral
11. Engelen MPKJ, Jonker R, Harrykissoon R, Zachria AJ, Deutz NEP. Elevated meal-induced anabolic response after four weeks of ω 3 fatty acid supplementation in Chronic Obstructive Pulmonary Disease (COPD). The 13th International SCWD Conference on Cachexia, Sarcopenia and Muscle Wasting. Online: poster/oral

12. Wierzchowska-McNew RA, Engelen MPKJ, Simbo SS, Deutz NEP. Resting Energy Expenditure changes after 2 weeks of Very Low-Calorie Diet are associated with baseline production rates of specific amino acids. The 13th International SCWD Conference on Cachexia, Sarcopenia and Muscle Wasting. Online: poster/oral
13. Cruthirds CL, Park JK, Deutz NEP, Engelen MPKJ. Six minute walk test performance is related to oxygen use and production of specific muscle related amino acids but not muscle mass. 2020 The 13th International SCWD Conference on Cachexia, Sarcopenia and Muscle Wasting. Online: poster/oral
14. Weits J.J., Cruthirds C.L., Cavka L., Mizubuti Y., N.E.P. Deutz, M.P.K.J. Engelen. Mild cognitive impairment in Chronic Obstructive Pulmonary Disease is associated with an imbalance of specific non-essential amino acids. 2020 European Society for Parenteral and Enteral Nutrition. Online: Oral
15. Cross KM, Wierzchowska-McNew RA, Engelen MPKJ, Deutz NEP. Plasma Concentrations of Glutamate, Serine, Citrulline, Arginine, Glycine And Threonine Are Predictive of Impaired Fasting Glucose In COPD Patients. 2020 European Society for Parenteral and Enteral Nutrition. Online: Poster
16. Cross KM, Wierzchowska-McNew RA, Engelen MPKJ, Deutz NEP. Plasma Concentrations of Proline, Citrulline, And Glutamate Are Predictive of Impaired Fasting Glucose. 2020 European Society for Parenteral and Enteral Nutrition. Online: Poster
17. Cruthirds C, Deutz NEP, Harrykissoon R, Zachria AJ, Engelen MPKJ. COPD patients with abdominal obesity have preserved muscle health despite BCAA metabolic disturbances. 2020 European Society for Parenteral and Enteral Nutrition. Online: Oral
18. Cruthirds C, Deutz NEP, Harrykissoon R, Zachria AJ, Engelen MPKJ. Lower basal net protein breakdown is linked to more impaired muscle quality, physical activity level, lung function, and protein intake in COPD patients and sedentary control subjects. 2020 European Society for Parenteral and Enteral Nutrition. Online: Poster / guided
19. Cruthirds C, Deutz NEP, Harrykissoon R, Zachria AJ, Engelen MPKJ. COPD patients with a higher net catabolic response to resistance exercise and pre-existing muscle dysfunction complete less work during their exercise bout, 2020 European Society for Parenteral and Enteral Nutrition. Online: Poster / guided
20. Ten Have GAM, Thaden JJ, Engelen MPKJ, Deutz NEP. Excessive nitrogen uptake by the liver limits the anabolic response to enteral amino acids intervention during early sepsis-recovery. 2020 European Society for Parenteral and Enteral Nutrition. Online: Poster
21. Sarah K. Kirschner, Nicolaas E. P. Deutz, Sunday Y. Simbo, Jaekwan K. Park, Mariëlle P. K. J. Engelen. Whole-body short-chain fatty acid (SCFA) production rates and plasma concentrations

are not associated with health characteristics in human adults. 2020 European Society for Parenteral and Enteral Nutrition. Online: Poster

22. R.A. Wierzchowska-McNew, M.P.K.J. Engelen, G.A. Ten Have, J.J. Thaden, N.E.P. Deutz. Impaired whole-body arginine metabolism in type 2 diabetes. 2020 European Society for Parenteral and Enteral Nutrition. Online: Oral
23. Wierzchowska-McNew RA, Pittman M, Knoop KD, Deutz NEP, Engelen MPKJ. Baseline plasma Essential Amino Acids are associated with lower levels of fatigue after weight loss in morbidly obese adults. 2020 European Society for Parenteral and Enteral Nutrition. Online: Poster/guided
24. R.A. Wierzchowska-McNew, M.P.K.J. Engelen, S.S. Simbo, N.E.P. Deutz. No changes in fasting and 24-hour glucose levels in type 2 diabetic subjects observed after 10 days of L-Isoleucine supplementation. 2020 European Society for Parenteral and Enteral Nutrition. Online: Oral
25. R.A. Wierzchowska-McNew, M.P.K.J. Engelen, G.A. Ten Have, J.J. Thaden, N.E.P. Deutz. Isoleucine supplementation for ten days does not modify protein and branched-chain amino acid turnover in type 2 diabetes. 2020 European Society for Parenteral and Enteral Nutrition. Online: Oral
26. Bendavid I, Zribi B, Ben Arye I, P Singer, G.A.M. Ten Have, R.A. Wierzchowska-McNew, M.P.K.J. Engelen, N.E.P. Deutz. Comprehensive amino acid flux analysis in the post-acute phase of critically ill post-surgery patients, compared to healthy matched subjects. 2020 European Society for Parenteral and Enteral Nutrition. Online: Oral
27. Bendavid I, Zribi B, Ben Arye I, P Singer, G.A.M. Ten Have, R.A. Wierzchowska-McNew, M.P.K.J. Engelen, N.E.P. Deutz. Magnitude of protein catabolic response in critically ill subjects is associated with multiple amino acid and lipolysis related metabolic disturbances. 2020 European Society for Parenteral and Enteral Nutrition. Online: Oral
28. Wierzchowska-McNew A., Engelen M.P.K.J., Knoop K.D., Ten Have G.A.M., Thaden J.J., Deutz N.E.P. Changes in whole-body amino acid metabolism in response to 2 weeks of the Very-Low Calorie Diet are not affected by gender. 2020 American Society Nutrition. Online: Poster
29. Wierzchowska-McNew A.*, Engelen M.P.K.J., Ten Have G.A.M., Thaden J.J., Deutz N.E.P. Age-specific differences in whole-body amino acid kinetics, 2020 American Society Nutrition. Online: Poster
30. Ten Have GAM, Engelen MPKJ, Wolfe RR, Deutz NEP. Compromised glutamine - glutamate metabolism in a *Pseudomonas aeruginosa* (PM) induced hyperdynamic sepsis-recovery pig model during an anabolic nutritional intervention. 2020 American Society Nutrition. Online: Poster
31. Sarah K. Kirschner, Nicolaas E. P. Deutz, John J. Thaden, Gabriëlla A. M. ten Have, Mariëlle P. K. J. Engelen. Reduced Short-Chain Fatty Acid (SCFA) Plasma Concentrations are Associated with

Decreased Psychological Well-being in Clinically Stable Congestive Heart Failure Patients. 2020 American Society Nutrition. Online: Poster

32. S.K. Kirschner, G.A.M. Ten Have, M.P.K.J. Engelen, N.E.P. Deutz . Quantitative Differences in Interorgan Kinetics of Short-Chain Fatty Acids (SCFA). 2020 American Society Nutrition. Online: Poster
33. *Azbell J, *Park JK , *Chang SH, Engelen MPKJ , Park H. Plantar tactile augmentation improves lateral balance with and without cognitive load, but palmar tactile augmentation improves lateral balance only without cognitive load. 2019 Society for Neuroscience. Chicago, IL, USA. Poster
34. *Cruthirds CL, Deutz NEP, Harrykissoon RI, Zachria AJ, Engelen MPKJ. Exercise induced gut dysfunction and the anabolic response to feeding in patients with Chronic Obstructive Pulmonary Disease. 2019 European Society for Parenteral and Enteral Nutrition. Krakow, Poland. Oral
35. *Cruthirds CL, Deutz NEP, Harrykissoon RI, Zachria AJ, Engelen MPKJ. Disturbed branched-chain amino acid metabolism in COPD with abdominal obesity is more pronounced in women but not associated with more impaired functional performance. 2019 European Society for Parenteral and Enteral Nutrition. Krakow, Poland. Oral
36. *Kirschner SK, Deutz NEP, *Rijnaarts I, Olde Damink SWM, Engelen MPKJ. Impairments in protein digestion and absorption attenuate the anabolic response to feeding in patients with Congestive Heart Failure. 2019 American Society Nutrition, Baltimore, ML, USA. Oral
37. Lighthart-Melis G, Thaden J, Ten Have G, Engelen MPKJ, Deutz NEP. The importance of glutamine as a precursor for citrulline synthesis revisited; a stable tracer study in healthy older adults. 2019 American Society Parenteral Enteral Phoenix, AZ. *International Abstract of Distinction Oral*
38. *Cruthirds CL, Deutz NEP, Engelen MPKJ. Skeletal Muscle Weakness is Associated With Specific Alterations in Amino Acid Metabolism in Patients with Chronic Obstructive Pulmonary Disease. 2019 American Thoracic Society. Dallas, USA. Poster
39. *Cruthirds CL, Deutz NEP, Harrykissoon RI, Zachria AJ, Engelen MPKJ. Cognitive Function Is More Impaired In Chronic Obstructive Pulmonary Disease Patients With Skeletal Muscle Dysfunction And Is Associated with Disturbances In Tryptophan Metabolism. 2019 American Thoracic Society. Dallas, USA. Poster
40. *Kirschner SK, Deutz NEP, *Jonker R, *McNew-Wierzchowska A, Olde Damink SWM, Harrykissoon R, Zachria AJ, Engelen MPKJ. Small Intestinal Dysfunction Attenuates the Anabolic Response to Feeding and Compromises Daily Functioning in Patients with Chronic Obstructive Pulmonary Disease. 2019 American Thoracic Society. Dallas, USA. Poster

41. *Park JK, Deutz NEP, Byju AG, Reddy CP, Park H, *Cruthirds CL, Jeon BH, *Kirschner SK, Madigan ML, Engelen MPKJ. Use of Oxygen Therapy, Cognitive Dysfunction, and Comorbidities Are Risk Factors for Impaired Balance Function in Chronic Obstructive Pulmonary Disease. 2019 American Thoracic Society. Dallas, USA. Poster
42. *Wierzchowska-McNew A., Deutz N.E.P., Simbo S.Y., Thaden J.J., Ten Have G.A.M., Engelen M.P.K.J. Protein Digestion, But Not Amino Acid Absorption, Is Compromised during feeding in Chronic Obstructive Pulmonary Disease. 2019 American Thoracic Society. Dallas, USA. Poster
43. Azbell J, Park JK, Chang SH, Engelen M.P.K.J., Park, H. Closed-loop Tactile Augmentation on either the Foot Sole or the Palm Improves Lateral Postural Balance. 2019 The Engineering in Medicine and Biology Conference. San Francisco CA. Poster
44. Gu M, *Carrell T, Bosshard J, *Cruthirds CL, McDougall MP, Deutz NEP, Engelen MPKJ, Wright SM Dynamic 31P MRS of Skeletal Muscle at a 1 Tesla Extremity Scanner. 2019 International Society for Magnetic Resonance in Medicine Montreal, Canada. Poster
45. Engelen MPKJ, *Jonker R, *McNew-Wierzchowska A, Veley GA, Harrykissoon R, Zachria AJ, Deutz NEP. Gut dysfunction attenuates the anabolic response to feeding in patients with Chronic Obstructive Pulmonary Disease. 2018 American Society Nutrition, Boston. Poster
46. Engelen MPKJ, *Jonker R, Simbo SY, *Sulaiman H, Harrykissoon R, Zachria AJ, Veley GA, Deutz NEP. High dose of ω 3 fatty acid supplementation for four weeks positively influences protein metabolism in Chronic Obstructive Pulmonary Disease. 2018 American Society Nutrition, Boston. Poster
47. *Ghane P, *Kirschner SK, Engelen MPKJ, Ivanov I, Braga-Neto UM, Deutz NEP. Compartmental data analysis to determine whole body short-chain fatty acid (SCFA) production using a pulse of stable tracers in humans. 2018 American Society Nutrition, Boston. Poster
48. *Kirschner SK, Deutz NEP, Simbo SY, Engelen MPKJ. Whole body short-chain fatty acid production is not disturbed in patients with Chronic Obstructive Pulmonary Disease. 2018 American Society Nutrition, Boston. Poster
49. *Ten Have GAM, Engelen MPKJ, Wolfe RR, Deutz NEP. Essential amino acids restore protein anabolism in a Pseudomonas aeruginosa (PM) induced hyperdynamic sepsis-recovery pig model. 2018 American Society Nutrition, Boston. Poster
50. *Ten Have GAM, Jansen L, Engelen MPKJ, Deutz NEP. Interorgan β 2-Hydroxy 3 β 2-methylbutyric acid (HMB) and branched chain keto acids (BCKA) transport in the healthy pig. 2018 American Society Nutrition, Boston. Poster
51. *Carrell T, Gu M, *Cruthirds CL, Deutz NEP, Engelen MPKJ, Wright SM, McDougall MP. 31-P Spectroscopy Calf Coil and Foot Flexion System for 1 T Extremity Scanner 2018 Biomedical engineering society, Atlanta. Poster

52. Van der Meij BS, Deutz NEP, Rodriguez RE, *Koeman F, Engelen MPKJ. Baseline clinical but not metabolic characteristics of cancer subjects dropping out of a clinical trial during chemotherapy are different from non-dropout subjects. 2018 Clinical Oncology Society of Australia. Perth AU. ASIA-PACIFIC Journal of clinical oncology 14, 172-172. Poster
53. Van der Meij BS, Deutz NEP, Olde Damink SO, Rodriguez RE, Engelen MPKJ. Early signs of impaired gut function in patients with advanced cancer undergoing chemotherapy. 2018 Clinical Oncology Society of Australia. Perth AU. ASIA-PACIFIC Journal of clinical oncology 14, 172-172. Poster
54. *Cruthirds C, Deutz N, Veley E, Harrykissoon R, Engelen M. High Intensity Resistance Exercise Induces Whole Body Protein Catabolism in Patients with Chronic Obstructive Pulmonary Disease. European Society for Parenteral and Enteral Nutrition conference, The Hague, NL. Clinical Nutrition. 2017;36:S34. Poster
55. *Cruthirds C, Deutz N, Walker D, Engelen M. Resistance Exercise Induces Alterations in Whole Body Branched Chain Amino Acids (BCAA), Keto Acids (BCKA), and B-Hydroxy-B-Methylbutyrate (HMB) Metabolism in Patients with Chronic Obstructive Pulmonary Disease. European Society for Parenteral and Enteral Nutrition conference, The Hague, NL. Clinical Nutrition. 2017;36:S36. Poster
56. Engelen M, Walker D, *Wierzchowska-Mcnew A, *Jeon M, Deutz N. B-Hydroxy-B-Methylbutyrate (HMB) Plasma Levels are Strongly Related to Muscle Mass and Strength in Patients with Chronic Obstructive Pulmonary Disease. European Society for Parenteral and Enteral Nutrition conference, The Hague, NL. Clinical Nutrition. 2017;36:S227. Poster
57. Lieben CK, Deutz NE, *Jonkers R, Veley E, Harrykissoon R, Zachria A, Engelen MP. Deficits in Cognitive Flexibility in COPD are Linked to Changes in Metabolism of Branched-Chain Amino Acids. European Society for Parenteral and Enteral Nutrition conference, The Hague, NL. Clinical Nutrition. 2017;36:S99-S100. Poster
58. Lieben CK, Deutz NE, *Salentijn A, Engelen MP. The Acute Effects of Tryptophan Enriched Whey Protein on Cognitive Functions in Older Adults with Mild Cognitive Impairment. European Society for Parenteral and Enteral Nutrition conference, The Hague, NL. Clinical Nutrition. 2017;36:S70-S1. Poster
59. Rotovnik Kozjek N, Lieben C, Deutz N, Engelen M. Low Bioimpedance Phase Angle Indicates Muscle Catabolism and Loss of Muscle and Cognitive Function in Chronic Obstructive Pulmonary Disease. European Society for Parenteral and Enteral Nutrition conference, The Hague, NL. Clinical Nutrition. 2017;36:S244. Poster
60. Van Der Meij BS, Deutz NE, Rodriguez RE, *Koeman F, *Smit TC, Engelen MP. Increased Amino Acid Turnover and Myofibrillar Protein Breakdown in Advanced Cancer are Associated with

Decreased Muscle Strength and Physical Function. European Society for Parenteral and Enteral Nutrition conference, The Hague, NL. Clinical Nutrition. 2017;36:S46-S7. Poster

61. Van Der Meij BS, Deutz NE, Rodriguez RE, *Koeman F, *Smit TC, Engelen MP. Metabolic Phenotyping to Provide Insight in Mechanisms Underlying Muscle Weakness and Wasting in Patients with Cancer. European Society for Parenteral and Enteral Nutrition conference, The Hague, NL. Clinical Nutrition. 2017;36:S156. Oral
62. Van Der Meij BS, Lieben CK, Deutz NE, Rodriguez RE, *Koeman F, *Smit TC, Engelen MP. SUN-P046: Depressed Mood and Cognitive Functions in Patients with Cancer are Associated with Alterations in Tryptophan Metabolism. European Society for Parenteral and Enteral Nutrition conference, The Hague, NL. Clinical Nutrition. 2017;36:S70. Poster
63. *Mason A, Engelen M, Toffolo G, Deutz N. A Comprehensive Compartmental Model for the Assessment of Net Whole Body Protein Breakdown, Using a Pulse of Phenylalanine and Tyrosine Stable Isotopes in Humans. The FASEB Journal. 2016;30(1 Supplement):lb391 Poster
64. *Mason A, Engelen M, Toffolo G, Deutz N. A Minimal Compartmental Model for the Assessment of Net Whole Body Protein Breakdown, Using a Pulse of Phenylalanine and Tyrosine Stable Isotopes in Humans. The FASEB Journal. 2016;30(1 Supplement):909.10-.10. Poster
65. *Ten Have GA, Engelen MP, Wolfe RR, Deutz NE. Severely Compromised Anabolic Response to Nutrition in a Pseudomonas aeruginosa (PM) Induced Hyperdynamic Sepsis-Recovery Pig Model. The FASEB Journal. 2016;30(1 Supplement):682.16-.16. Poster
66. *Ten Have GA, Engelen MP, Wolfe RR, Deutz NE. Increased muscle myofibrillar protein breakdown rates using 3-methyl-histidine (tau-mHIS) stable isotopes in a Pseudomonas aeruginosa (PM) induced hyperdynamic sepsis pig model. The FASEB Journal. 2016;30(1 Supplement):lb761-lb. Poster
67. *Ten Have GA, Engelen MP, Wolfe RR, Deutz NE. Glutathione (GSH) Absolute Synthesis Rates (ASR) of Multiple Organs in a Pseudomonas aeruginosa (PM) induced Hyperdynamic Sepsis Pig Model. The FASEB Journal. 2016;30(1 Supplement):742.17-.17. Poster
68. Engelen MPKJ, Harrykissoon R, Veley E, Thaden J, Deutz NEP. Skeletal Muscle Weakness in Chronic Obstructive Pulmonary Disease is Associated with Disturbances in Glutamate Related Metabolism. European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. Clinical Nutrition. 2015(34):S173. Poster
69. Engelen MPKJ, *Jonker R, Veley E, Harrykissoon R, Thaden J, Deutz NEP. Exhaled concentration of nitric oxide (feno) does not reflect the upregulated whole body nitric oxide synthesis in patients with chronic obstructive pulmonary disease. European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. Clinical Nutrition. 2015;34:S232. Poster

70. Engelen M, Lieben C, Harrykissoon R, Veley E, *Smit T, Deutz N. Cognitive Deficits and Increased Depression in Patients with Chronic Obstructive Pulmonary Disease with Reduced Whole Body Tryptophan Consumption Ratio. European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. Clinical Nutrition. 2015(34):S58. Poster
71. Engelen MPKJ, Van der Meij BS, Larsen D, *Smit T, Deutz NEP. Systemic muscle dysfunction in Chronic Heart failure is associated with enhanced myofibrillar protein breakdown but preserved skeletal muscle mass. European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. Clinical Nutrition. 2015(34):S58. Poster
72. Ligthart-Melis GC, Deutz NE, Larsen DJ, Engelen MP. SUN-PP050: Unchanged Taurine Production in Patients with Stable Chronic Heart Failure. European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. Clinical Nutrition. 2015;34:S42. Poster
73. Ligthart-Melis GC, *Jonker R, Engelen MPKJ, Deutz. NEP Individual protein requirements of older adults measured with a stable isotope multi-step feeding approach. European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. Clinical Nutrition. 2015;34:S230 Poster
74. *Ten Have G, Engelen M, Wolfe R, Deutz N. Protein Fractional Synthesis Rates (FSR) of Multiple Organs in a Pseudomonas aeruginosa (PM) Induced Hyperdynamic Sepsis Pig Model. European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. Clinical Nutrition. 2015;34:S1. Oral
75. *Ten Have G, Engelen M, Wolfe R, Thaden J, Deutz N. Reduced Protein Synthesis and Breakdown in Jejunal Mucosal Biopsies in a Live Bacteria Induced Hyperdynamic Sepsis Pig Model. European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. Clinical Nutrition. 2015;34:S33. Poster
76. *Jonker R, Ligthart-Melis GC, Deutz NE, Veley GA, Harrykissoon R, Zachria AJ, Engelen MPKJ. Comparable meal related enhanced protein anabolism between a one-time bolus meal and continuous sip feeding in patients with Chronic Obstructive Pulmonary Disease European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. 2015 2015;34:S13. Oral
77. *Jonker R, Deutz NEP, Veley GA, Harrykissoon R, Engelen MPKJ. The anabolic capacity of casein protein hydrolysates is unaltered by adding either leucine, carbohydrates or both in healthy older adults and patients with Chronic Obstructive Pulmonary Disease European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. 2015;34:S232 Oral
78. Walker DK, Engelen MPKJ, Deutz NEP. Increased whole body transamination and oxidation of leucine in chronic heart failure. European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. 2015;34:S209 Poster
79. Walker DK, Engelen MPKJ, Deutz NEP. Whole body production of 3-hydroxy-3-methylbutyrate (HMB) in obese subjects with chronic disease. European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. 2015;34:S209 Poster

80. *Ten Have GAM, Engelen MPKJ, Wolfe RR, Thaden JJ, Deutz NEP. Glutathione metabolism during Pseudomonas aeruginosa induced sepsis in the pig, and the effect of enteral nutritional intervention. European Society for Parenteral and Enteral Nutrition conference, Lisbon. PT. 2015;34 Oral
81. *De Betue C, Engelen MPKJ, van Waardenburg D, Joosten K, Deutz NEP. 24-hour protein, arginine and citrulline metabolism in fed critically ill children does not show a circadian rhythm. ESPNIC Rotterdam NL. Oral
82. Engelen MPKJ, Com G, Deutz N. Increased whole body hydroxyproline production is associated with hip and spine bone mineral loss in pediatric patients in pediatric patients with cystic fibrosis. European Society for Parenteral and Enteral Nutrition conference, Leipzig GER, Clinical Nutrition. 2013;32:S113. Poster
83. Engelen MP, Safar AM, Bartter T, *Koeman F, Deutz NE. Impaired Whole Body Nitric Oxide Synthesis and Upregulated Protein Breakdown in Patients with Advanced Non-Small Cell Lung Cancer. European Society for Parenteral and Enteral Nutrition conference, Leipzig GER, Clinical Nutrition. 2013;32(0):S59-S60. Poster
84. *Jonker R, Deutz NEP, Erbland M, Anderson P, Engelen MPKJ. Dietary essential amino acids are highly anabolic in patients with Chronic Obstructive Pulmonary Disease. European Society for Parenteral and Enteral Nutrition conference, Leipzig GER, Clinical Nutrition. 2013;32:S7. *Travel award* Oral
85. *Jonker R, Deutz NEP, Erbland M, Anderson P, Engelen MPKJ. Whole Body De Novo Arginine Production and Nitric Oxide Synthesis Are Reduced in Patients with Chronic Obstructive Pulmonary Disease. European Society for Parenteral and Enteral Nutrition conference, Leipzig GER, Clinical Nutrition. 2013;32(0):S5-S6. *Best abstract ESPEN Conference* Oral
86. Engelen MP, Com G, Safar AM, Erbland M, Deutz NE. Comparable upregulation of Whole body Protein turnover but differences in Arginine and Nitric Oxide metabolism among the chronic wasting diseases Chronic Obstructive Pulmonary Disease (COPD), Non-Small Cell Lung cancer (NSCLC), and Cystic Fibrosis (CF). 2013 Cachexia Meeting Kobe JP Poster
87. Engelen MPKJ, *Jonker R, Erbland M, Anderson P, Deutz NEP. Dietary essential amino acids are highly anabolic in Chronic Obstructive Pulmonary Disease and Cystic Fibrosis. 2013 Cachexia Meeting Kobe JP Oral
88. Engelen MPKJ, Safar A, Bartter T, Arnaoutakis, *Koeman F, Wolfe R, Deutz NEP. Dietary Essential Amino Acids Are Highly Anabolic In Patients With Non-Small Cell Lung Cancer With Severe Muscle Wasting. American Thoracic Society. San Francisco, USA Am. J. Respir. Crit. Care Med. 2012; 185: A5316 Poster

89. Engelen MPKJ, Com G, Luiking Y, Deutz NEP. Enhanced De Novo Arginine Synthesis And Protein Turnover In Pediatric Cystic Fibrosis Patients With Nutritional Failure. American Thoracic Society. San Francisco USA. Am. J. Respir. Crit. Care Med. 2012; 185: A2471 Oral
90. Engelen MPKJ, Com G, Anderson P, Thaden J, *Aarts N, Deutz NEP. Novel Method to Measure Fat and Protein Digestion Rate and the Acute Response to Pancreatic Enzyme Intake in Pediatric and Adult Patients with Cystic Fibrosis. North American Cystic Fibrosis Conference Orlando USA. Pediatric Pulmonology 2012; 35:410 Poster
91. *Jonker R, Deutz NEP, Erbland M, Anderson P, Engelen MPKJ. Malnourished Patients With Chronic Obstructive Pulmonary Disease Respond Anabolic To Bolus Feeding Of Both Casein And Whey Protein With No Additional Effect Of Leucine Addition. American Thoracic Society Conference. San Francisco USA. Am. J. Respir. Crit. Care Med. 2012; 185: A5314 Poster
92. *Ten Have GA, Engelen MP, Wolfe RR, Deutz NE. Reduced lung glutamate (GLU) production is the cause of decreased systemic glutamate availability in hyperdynamic sepsis. American Society for Nutrition , San Diego USA. The FASEB Journal. 2012;26(1_MeetingAbstracts):715.3. Poster
93. *Ten Have GA, Engelen MP, Wolfe RR, Deutz NE. Muscle breakdown determines Arginine (ARG) availability during hyperdynamic sepsis in the pig. American Society for Nutrition , San Diego USA. The FASEB Journal. 2012;26(1_MeetingAbstracts):43.7. Oral
94. *Ten Have GA, Engelen MP, Wolfe RR, Deutz NE. Using the phenylalanine (PHE) stable isotope pulse method to measure intracellular protein breakdown and metabolic shunting in the context of sepsis in the pig. American Society for Nutrition , San Diego USA. The FASEB Journal. 2012;26(1_MeetingAbstracts):42.1. Oral
95. Engelen MPKJ, Com G, Luiking YC, Deutz NEP. Nutritional failure is associated with enhanced whole body protein turnover and catabolism in pediatric patients with cystic fibrosis. 2011 North American Cystic Fibrosis Conference Anaheim, CA, USA. Pediatric Pulmonology 46 (34), 389 Oral
96. Engelen MPKJ, Com G, Wolfe RR, Deutz NEP. Dietary essential amino acids are highly anabolic in pediatric patients with cystic fibrosis characterized by nutritional failure. 2011 North American Cystic Fibrosis Conference Anaheim, CA, USA. Pediatric Pulmonology 46 (34), 389 Poster
97. Engelen MPKJ, *Aarts N, Deutz NEP, Com G. Effects gender on nutritional status in pediatric Effects gender on nutritional status in pediatric patients with Cystic Fibrosis. 2011 North American Cystic Fibrosis Conference Anaheim, CA Poster
98. Engelen MPKJ, *Schroder R, *van der Hoorn K, Deutz NEP, Com G. Body mass index criteria to predict loss of muscle mass and compromised lung function in pediatric patients with cystic fibrosis. North American Cystic Fibrosis Conference Baltimore, USA. Pediatric pulmonology, 2010; 414-414 Oral

99. *Falk AL, Kruijshoop M, Greenberg NA, Olesen MK, Engelen MPKJ, Deutz NEP. High Protein Oral Supplements With Added Insulinogenic Amino Acids Improve Acute Glycemic and Beta-cell Response in Individuals With Impaired Glucose Tolerance: s09 2007 JPEN;31:(2): S42 Poster
100. *Veldhorst MAB, Nieuwenhuizen AG, *Hochstenbach-Waelen A, Westerterp KR, Engelen MPKJ, Brummer RJ, Deutz NEP, Westerterp-Plantenga ME. Effects of high or normal casein-, soy-, or whey with or without GMP-protein breakfasts on satiety, 'satiety' hormones, and plasma amino acid responses. 2007; 49: 336 Poster
101. Luiking YC, Engelen MP, *Vissers YL, Deutz NE. Whole body citrulline production, but not arginine production, is increased with aging in healthy humans. Experimental Biology conference. San Francisco CA, FASEB J. 2006;20(4): A160 Poster
102. *Rutten EPA, Engelen MPKJ, Wouters EFM, Deutz NEP, Schols AMWJ. Reduced myofibrillar protein breakdown in stable, patients with chronic obstructive pulmonary disease (COPD). Experimental Biology conference. Washington DC, FASEB JOURNAL 2004: 18(4) A540 Poster
103. *Rutten EPA, Engelen MPKJ, Wouters EFM, Schols AMWJ. Deutz NEP, Glutamate ingestion reduces non-protein leucine turnover in patients with chronic obstructive pulmonary disease (COPD). Experimental Biology conference. Washington DC, FASEB JOURNAL 2004: 18(4) A540 Poster
104. *Rutten EPA, Engelen MPKJ, Wouters EFM, Deutz NEP, Schols AMWJ. Reduced myofibrillar protein breakdown in stable, patients with chronic obstructive pulmonary disease (COPD). Experimental Biology conference. Washington DC. FASEB JOURNAL 2004;18(4):A540 Poster
105. Engelen MPKJ, Deutz NEP, Wouters EFM, Schols AMWJ. European Respiratory Society Conference. Copenhagen, Denmark. "Glutamate and glutathione levels are preserved in the diaphragm of patients with Chronic Obstructive Pulmonary Disease" 2003 Oral
106. *Rutten EPA, Engelen MPKJ, Schols AMWJ, Wouters EFM, Deutz NEP. The effect of repeated ingestion of glutamate or glutamine on plasma glutamate levels Clin Nutr 2003: 22: S27 Poster
107. *Rutten EPA, Engelen MPKJ, Deutz NEP, Wouters EFM, Schols AMWJ. The effect of a glutamate load on symptoms of the Chinese restaurant syndrome European Society for Parenteral and Enteral Nutrition conference, Cannes FR, Clin Nutr 2003;22: S27 Poster
108. Engelen MPKJ, Deutz NEP, Wouters EFM, Schols AMWJ. Muscle phenylalanine transport is increased at rest and unresponsive during exercise in patients with chronic obstructive pulmonary disease. Experimental Biology conference. New Orlando FL, FASEB JOURNAL 2001 (15) 5, A759 Poster
109. Engelen MPKJ, Deutz NEP, Wouters EFM, Schols AMWJ. "Energy and amino acid metabolism in patients with chronic bronchitis and emphysema and the effects of exercise". European Society of Parenteral and Enteral Nutrition Conference, Stockholm, Sweden. 2000 Oral

110. Engelen MPKJ, Schols AMWJ, Does JD, Deutz NEP. "Whole body protein turnover in patients with Chronic Obstructive Pulmonary Disease at rest, and the effects of exercise" American Thoracic Society Conference, San Francisco, California. 2000 Oral
111. *Engelen MPKJ, Schols AMWJ, Does JD, Deutz NEP, Wouters EFM Differences in amino acid profile of peripheral muscle between patients with emphysema and chronic bronchitis. American Journal Respiratory & Critical care Medicine San Diego CA, 1999: 159:3 A475 Poster
112. *Engelen MPKJ, Schols AMWJ, Does JD, Wouters EFM. Exercise induced lactate increase in relation to physical activity level and peripheral muscle substrates in COPD. American Thoracic Society conference. San Diego CA, American Journal Respiratory & Critical care Medicine 1999: 159:(3)A475 Poster
113. *Engelen MPKJ, Schols AMWJ, Does JD, Deutz NEP, Wouters EFM. Disturbed glutamate related metabolism in resting peripheral skeletal muscle of patients with emphysema. American Thoracic Society conference San Diego CA, American Journal Respiratory & Critical Care Medicine 1999: 159 (3) A475 Poster
114. *Engelen MPKJ, Schols AMWJ, Does JD, *Gosker HR, Deutz NEP, Wouters EFM Reduced muscle amino acid related oxidative metabolism in COPD. European Society for Parenteral and Enteral Nutrition conference, Nice FR, Clinical Nutrition 1998: 17: 11 Oral
115. *Engelen MPKJ, Schols AMWJ, Lamers RJS, Wouters EFM. Differentiation between depletion of fat-free mass (FFM) and fat-mass (FM) among emphysema and chronic bronchitis oral Clinical Nutrition 1998;12:p20 Oral
116. *Engelen MPKJ, Schols AMWJ, Heidendal GAK, Wouters EFM. Body composition assessment by dual-energy X-ray absorptiometry compared to deuterium dilution in patients with stable COPD. European Society for Parenteral and Enteral Nutrition conference, Nice FR, Clinical Nutrition 1996: 15: 45 Poster
117. *Engelen MPKJ, Riley M, Maehara K, Porszasz J, Wasserman K. Barstow T. Exercise energetics during heavy exercise under varying FIO₂. Experimental Biology conference. Anaheim CA, FASEB journal 1994: A306 Poster
118. Porszasz J, *Engelen MPKJ, Riley M, Barstow T, Wasserman K. Attenuation and stimulation of exercise hyperpnea as related to inspired O₂ concentration. Experimental Biology conference. Anaheim CA, FASEB journal 1994: A306 Poster
119. Riley M, *Engelen MPKJ, Porszasz J, Barstow T, Wasserman K. Effect of change in FIO₂ on repayment of the O₂ debt. Experimental Biology conference. Anaheim CA, FASEB journal 1994;8(4):A288 Poster

Undergraduate Poster Research Presentations. TAMU Research week

1. *Park J., Deutz N.E.P., *Park J., Madigan, M.L. Engelen M.P.K.J. Reactive balance function analysis in response to postural perturbation in the older population 2020
2. *Weits J.J., Deutz N.E.P., Engelen M.K.P.J. Mild Cognitive Impairment in Chronic Obstructive Pulmonary Disease: Systemic features and underlying risk factors 2020
3. *Pittman M., *Wierzchowska-McNew R.A., Knoop K.D., Deutz N.E.P., Engelen M.P.K.J. Baseline plasma Essential Amino Acids are associated with lower levels of fatigue after weight loss in morbidly obese adults. 2020
4. *Silguero J, *De Paus R.M., Deutz N.E.P., Engelen M.P.K.J. Reduced self reported dietary essential amino acid and ω 3 fatty acid content from whole foods are associated with low muscle mass and function in patients with Chronic Obstructive Pulmonary Disease 2019
5. *Begnaud L.K., *Kirschner S.K., Deutz N.E.P., Engelen M.P.K.J. Low butyrate concentrations are associated with impaired cognitive function in patients with Chronic Obstructive Pulmonary Disease 2019
6. *Park JK, Deutz N.E.P., Madigan ML, Engelen M.P.K.J. Is balance in patients with Chronic Obstructive Pulmonary Disease related to their muscle and cognitive health? 2018
7. *Hansen R, Engelen M.P.K.J., Lieben C.K. Deutz N.E.P. Is cognitive impairment in Autism Spectrum Disorder linked to a specific plasma amino acid profile? 2018
8. *Reynoso A., Deutz N.E.P., Jonker R., Engelen M.P.K.J. β -Hydroxy β -methylbutyrate: a metabolic marker of muscle health in Chronic Obstructive Pulmonary Disease? 2018