

# Annabel Biruete, PhD, RD, FNKF, FASN

## **EDUCATION:**

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- 2018-2021 Post-doc Indiana University School of Medicine  
*Department:* Medicine/Division of Nephrology  
*Mentors:* Drs. Sharon Moe, Matthew Allen, Neal Chen, and Kathleen Hill Gallant  
*Area of Research:* Dietary and pharmacological therapies in chronic kidney disease-mineral and bone disorder
- 2017-2018 Dietetic Internship Ball State University, Muncie, IN  
Date of registration: April 10<sup>th</sup>, 2018
- 2012-2017 Ph.D. University of Illinois at Urbana-Champaign, Urbana, IL  
*Department:* Nutritional Sciences  
*Advisor:* Dr. Kenneth Wilund  
*Area of Research:* Renal nutrition  
*Dissertation title:* Role of fermentable fiber in bone and mineral metabolism and the gut microbiota in end-stage kidney disease patients undergoing hemodialysis treatment
- 2006-2011 B.Sc. Escuela de Dietética y Nutrición, Mexico City, Mexico  
*Major:* Nutrition and Dietetics (*with highest honors*)  
Date of registration: August 10<sup>th</sup>, 2011

## **PROFESIONAL AND RESEARCH EXPERIENCE:**

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### **Assistant Professor, August 2022-Present**

Department of Nutrition Science, Purdue University, West Lafayette, IN

### **Adjunct Assistant Professor, August 2021-Present**

Division of Nephrology, Indiana University School of Medicine, Indianapolis, IN

### **Assistant Professor, August 2021-August 2022**

Department of Nutrition and Dietetics, Indiana University-Purdue University Indianapolis, Indianapolis, IN

### **Postdoctoral Fellow, April 2018-July 2021**

Division of Nephrology, Indiana University School of Medicine, Indianapolis, IN

### **Predoctoral Fellow, August 2012-May 2017**

Division of Nutritional Sciences, University of Illinois at Urbana-Champaign, Urbana, IL

### **Adult Nutrition Facilitator, September-November 2016**

University of Illinois at Urbana-Champaign, Urbana, IL

### **Clinical Dietitian, July 2011-July 2012**

Department of Nutrition Support, Regional Hospital "Lic. Adolfo Lopez Mateos", Mexico City, Mexico

### **Outpatient Dietitian, July 2011-July 2012**

Angeles Metropolitan Hospital, Mexico City, Mexico

## **PROFESIONAL DEVELOPMENT:**

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- Summer 2022 National Center for Faculty Development and Diversity's Alumni Faculty Success Program.
- Spring 2022 National Center for Faculty Development and Diversity's Faculty Success Program.
- 2021-Present National Kidney Foundation, Kidney Commute Podcast- Planning Committee member  
*Role:* Provide feedback on speakers, topics, and planning of podcast.

2020-Present	International Society of Renal Nutrition and Metabolism Co-Chair of Education Committee <i>Role:</i> Create of educational content
2018-2019	American Society for Nutrition Blogger <i>Role:</i> Create content for the American Society for Nutrition Blog on topics of interest to the members of the Society.
2017-2020	American Society for Parenteral and Enteral Nutrition (ASPEN) Chair of Student and Trainee Section <i>Role:</i> Provide a structure for communication, collaboration and collegiality among an interdisciplinary group of ASPEN's student and trainee members, and to promote nutrition support research.
2017-Present	Nephrology Social Media Collective (NSMC) Intern and Faculty <i>Role:</i> Learn how to communicate effectively through social media. Activities include twitter-based journal clubs, blog posts, and Nephrology-focused social media campaigns.
2010- Present	European Society of Clinical Nutrition and Metabolism (ESPEN) Life Long Learning Program <i>Role:</i> Enrolled in Certification in Clinical Nutrition and Metabolism which includes 42 credits from live courses, 58 credits from on-line courses, and a final examination.
2011-2012	Nutrition Support Certification, Hospital Lic. Adolfo Lopez Mateos, Mexico City, Mexico <i>Training:</i> 1,320 hours.
2011	Pediatric Nutrition Certification, Universidad de La Salle, Mexico City, Mexico <i>Training:</i> 65 hours.

## **TEACHING EXPERIENCE:**

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Aug 2021-May 2022	Assistant Professor, Indiana University-Purdue University Indianapolis, Indianapolis, IN <i>Role:</i> instructor of N420 Human Nutrition through the Lifespan
Jan 2019-July 2021	Adjunct Lecturer, Department of Nutrition and Dietetics, Indiana University-Purdue University Indianapolis, Indianapolis, IN <i>Role:</i> instructor of SHRS N550 Human Nutritional Pathophysiology I and NTRD N552 Human Nutritional Pathophysiology II (graduate hybrid courses)
2011-2012	Clinical Nutrition Instructor, Regional Hospital "Lic. Adolfo Lopez Mateos", Mexico City, Mexico <i>Role:</i> instructor for junior and senior dietetics students, dietetics interns, and medical students.

## **FELLOWSHIPS:**

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2022-2023	Indiana Clinical and Translational Sciences Institute Early Career Investigator Award (KL2)
2020-2021	NIH Training Grant Postdoctoral Fellow (T32), Indiana University-Kidney Training Program, Indiana University School of Medicine
2018-2020	NIH Comprehensive Musculoskeletal Training Grant (T32), Indiana Center for Musculoskeletal Health, Indiana University School of Medicine.
2012-2017	CONACyT (Mexico's National Council of Science and Technology) Pre-doctoral Fellowship, Mexico.

## **HONORS/AWARDS:**

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2022	Fellow, American Society of Nephrology
2020	Fellow, National Kidney Foundation

2019	David B. Burr Fellow in Musculoskeletal Research, Department of Anatomy, Cell Biology & Physiology, Indiana University School of Medicine.
2016	Commission on Dietetic Registration Doctoral Diversity Scholarship, Academy of Nutrition and Dietetics
2015, 2016	Kidney STARS (Students and Residents) award to attend Kidney Week in Chicago, IL; American Society of Nephrology
2016	Kidney TREKS (Tutored Research and Education for Kidney Scholars) to attend the Mount Desert Island Biological Laboratory in Bar Harbor, ME; American Society of Nephrology
2015	William Rose Research Award, Division of Nutritional Sciences, University of Illinois
2014	Toshiro Nishida Research Award, Division of Nutritional Sciences, University of Illinois
2012-2017	Phi Kappa Phi Honor Society, University of Illinois Chapter

### **GRANT SUPPORT (FUNDED):**

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2018-2020	<p>Keryx Pharmaceuticals</p> <p><i>Title:</i> Oxidative stress in the pathogenesis of chronic kidney disease-mineral and bone disorder</p> <p><i>Funding Source:</i> Keryx Pharmaceuticals</p> <p><i>Role:</i> Co-Investigator (PI Sharon Moe)</p> <p><i>Amount:</i> \$256,937</p>
2017-2018	<p>Renal Research Institute Research Grants</p> <p><i>Title:</i> Dietary intervention to reduce tissue sodium accumulation in hemodialysis patients.</p> <p><i>Funding Source:</i> Renal Research Institute</p> <p><i>Role:</i> Co- Investigator (PI Kenneth Wilund)</p> <p><i>Amount:</i> \$95,049</p>
2016	<p>Margin of Excellence Award</p> <p><i>Title:</i> Effect of inulin supplementation on fecal excretion of electrolytes and minerals in maintenance hemodialysis patients</p> <p><i>Funding Source:</i> University of Illinois</p> <p><i>Role:</i> Principal Investigator</p> <p><i>Amount:</i> \$1,800</p>
2015-2017	<p>Renal Research Institute Research Grants</p> <p><i>Title:</i> Gut microbiome-mediated effects of inulin supplementation on mineral metabolism of maintenance hemodialysis patients</p> <p><i>Funding Source:</i> Renal Research Institute</p> <p><i>Role:</i> Co-Principal Investigator (Co-PI Kenneth Wilund)</p> <p><i>Amount:</i> \$18,950</p>
2015-2017	<p>Division of Nutritional Sciences Vision 20/20 grant</p> <p><i>Title:</i> Gut-microbiome mediated effects of inulin supplementation on mineral metabolism of maintenance hemodialysis patients</p> <p><i>Funding source:</i> Division of Nutritional Sciences- USDA Hatch</p> <p><i>Role:</i> Co-Principal Investigator (Co-PI Kelly Swanson)</p> <p><i>Amount:</i> \$20,000</p>
2015	<p>Margin of Excellence Award</p> <p><i>Title:</i> Effect of inulin supplementation on mineral metabolism in hemodialysis patients</p> <p><i>Funding Source:</i> University of Illinois</p> <p><i>Role:</i> Principal Investigator</p> <p><i>Amount:</i> \$3,150</p>

2014 Graduate Student International Research Grant  
*Title:* Differences in dietary patterns between hemodialysis patient from the United Kingdom and the United States and association with nutritional status and food security  
*Funding Source:* University of Illinois  
*Role:* Principal Investigator  
*Amount:* \$3,000

2013 Margin of Excellence Award  
*Title:* Efficacy of Beta-Hydroxy Beta-Methylbutyrate (HMB) Supplementation in Peritoneal Dialysis Patients  
*Funding Source:* University of Illinois  
*Role:* Principal Investigator  
*Amount:* \$3,000

## **PUBLICATIONS:**

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### Manuscripts:

1. Perez, LM, **Biruete, A.** Lack of Cultural and Language Concordant Nutrition Education for Hispanic/Latinx Individuals with Chronic Kidney Disease: A Call to Action. *J Am Soc Nephrol.* 2022 May 11; Online ahead of print.
2. **Biruete, A,** Metzger, CE, Chen, NX, Swallos, EA, Vrabc, C, Clinkenbeard, EL, Stacy, AJ, Srinivasan, S, O'Neill, K, Avin, KG, Allen, MR, Moe, SM. Effects of ferric citrate and intravenous iron sucrose on markers of mineral, bone, and iron homeostasis in a rat model of CKD-MBD. *Nephrol Dial Transplant.* 2022 Apr 28; Online ahead of print.
3. Perez, LM, **Biruete, A,** Wilund, KR. Home-delivered meals as an adjuvant to improve volume overload and clinical outcomes in hemodialysis. *Clinical Kidney Journal,* 2022; online ahead of print.
4. Damrath, JG, Chen, NX, Metzger, CE, Srinivasan, S, O'Neill, K, **Biruete, A,** Avin, KG, Wallace, JM, Allen, MR, Moe, SM. Non-Additive Effects of Combined NOX1/4 Inhibition and Calcimimetic Treatment on a Rat Model of Chronic Kidney Disease-Mineral and Bone Disorder (CKD-MBD). *JBMR Plus.* 2022 Feb 11;6(3):e10600. eCollection 2022 Mar.
5. **Biruete, A,** Shin, A, Kistler, BM, Moe, SM. Feeling gutted in chronic kidney disease (CKD): gastrointestinal disorders and therapies to improve gastrointestinal health in individuals CKD, including those undergoing dialysis. *Accepted in Seminars in Dialysis.*
6. **Biruete, A,** Cross, TL, Allen, JM, Kistler, BM, de Loor, H, Evenepoel, P, Fahey, GC, Bauer, L, Swanson, KS, Wilund, KR. Effect of Dietary Inulin Supplementation on the Gut Microbiota Composition and Derived Metabolites of Individuals Undergoing Hemodialysis: A Pilot Study. *J Ren Nutr. J Ren Nutr.* In press.
7. Song, Y., March, D., **Biruete A.,** Kistler, BM., Nixon, D., Highton, P., Vogt, B., Ruddock, N., Wilund, K., Smith, A., Burton, J. A comparison of dietary intake between individuals undergoing haemodialysis in the United Kingdom and China. *J Ren Nutr.* In press.
8. Kistler, BM, Moore, LW, Benner, D, **Biruete, A,** Boaz, M, Brunori, G. The International Society of Renal Nutrition and Metabolism Commentary on the National Kidney Foundation and Academy of Nutrition and Dietetics KDOQI Clinical Practice Guideline for Nutrition in Chronic Kidney Disease. *J Ren Nutr.* 2020 Jul 28; S1051-2276(20)30134-5.
9. Wiese, GN, **Biruete, A,** Moorthi, RN, Moe, SM, Lindemann, SR, Hill Gallant, KM. Plant-based diets, the gut microbiota, and trimethylamine-N-oxide production in chronic kidney disease: therapeutic potential and methodological considerations. *J Ren Nutr.* 2020 Jun 29; S1051-2276(20)30132-1.
10. **Biruete, A,** Srinivasan, S, O'Neill, KD, Vorland, CJ, Hill Gallant, KM, Cai, W, Uribarri, J, Johnston, N, Allen, MR, Chen, NX, Moe, SM. Adverse effects of autoclaved diets on the progression of CKD and CKD-Mineral and Bone Disorder in rats. *Am J Nephrol.* 2020;51(5):381-389.
11. Stremke, ER, **Biruete, A,** Hill Gallant, KM. Dietary protein intake and bone across stages of chronic kidney disease. *Curr Ost Rep.* 2020 Jun;18(3):247-253.
12. Snelson, M, **Biruete, A,** McFarlane, C, Campbell, KL. A renal clinician's guide to the gut microbiota. *Journal of Renal Nutrition.* 2020 Jan 9;S1051-2276(19)30411-X.
13. Vorland, CJ, **Biruete, A,** Lachcik, PJ, Srinivasan, S, Chen, NX, Moe, SM, Hill Gallant, KM. Effect of Kidney Disease Progression on Intestinal Phosphorus Absorption and Phosphorus Balance in a Rat Model of Chronic Kidney disease. *J Bone Miner Res.* 2019 Oct 16. 2020 Feb;35(2):333-342.

14. **Biruete, A**, Hill Gallant, KM, Lindemann, S, Wiese, G, Chen, N, Moe, SM. Phosphate binders and non-phosphate effects in the gastrointestinal tract. *Journal of Renal Nutrition*. *J Ren Nutr*. 2020 Jan;30(1):4-10.
15. **Biruete, A**, Allen, JM, Kistler, BM, Jeong, JH, Fitschen, PJ, Swanson, KS, Wilund, KR. Gut microbiota and cardiometabolic risk factors in maintenance hemodialysis patients. *Topics in Clinical Nutrition*. 2019 Apr-Jun;34(2):153-160.
16. Jeong, JH, **Biruete, A**, Tomayko, E, Wu, PT, Fitschen, PJ, Chung, HR, Fernhall, B, Phillips, S, Wilund, KR. Efficacy of Intradialytic Protein Supplementation and Exercise Training in Hemodialysis Patients. *Kidney International*. 2019 Sep;96(3):777-786.
17. Jeong, JH, **Biruete, A**, Fernhall, B, Wilund, K. The effect of acute intradialytic exercise on cardiovascular responses in hemodialysis patients. *Hemodial Int*. 2018 May 9. *Hemodial Int*. 2018 Oct; 22(4):524-533.
18. Kistler, BM, **Biruete, A**, Chapman-Novakofski, KM, Wilund, KR. The relationship between intradialytic nutrition and gastrointestinal symptoms using a modified version of the Gastrointestinal Symptom Rating Scale. *J Ren Nutr*. 2018 Mar; 28(2): 129-134.
19. **Biruete, A**, Jeong, JH, Barnes, JL, Wilund, KR. Modified nutritional recommendations to improve dietary patterns and outcomes in hemodialysis patients. *J Ren Nutr*. 2017 Jan; 27(1): 62-70.
20. Fitschen, PJ, **Biruete, A**, Jeong, JH, Wilund, KR. Efficacy of beta-hydroxy beta-methyl butyrate (HMB) supplementation in maintenance hemodialysis patients. *Hemodial Int*. 2016 Jun 14.
21. Jeong, JH, Wu, PT, Kistler, BM, Fitschen, PJ, **Biruete, A**, Ali, M, Fernhall, B, & Wilund KR. (2015). Impact of diastolic dysfunction on physical function and body composition in hemodialysis patients. *J Nephrol*. 2015 Dec;28(6):739-47
22. Leyva-Islas, JA, Kobayashi, A, Torres, BM, Franco-Alvarez, N, Hernández-Amezcuca, L, Díaz-Molina, S, Pedraza-Zárate, MA, **Biruete, A**, de Alba-Buenrostro, D. Evaluación y manejo nutricional en el anciano hospitalizado. México: Secretaría de Salud, 2012. (Clinical Practice Guidelines for Nutritional Assessment of the Hospitalized Elderly. Mexico: Health Department, 2012.)
23. **Biruete, A**, Juarez, E, Romero, R, Sieiro, E, Silencio J. Los nutraceuticos, lo que es conveniente saber (Nutraceutics, what is convenient to know). *Revista Mexicana de Pediatría*. 76 (3): 136-145. May-June 2009.

#### Abstracts:

1. Begum, MM, **Biruete, A**, Kistler, BM, St-Jules, D, Meade, A. A systematic review of online materials on dietary management of hyperphosphatemia in people with chronic kidney disease. *American Journal of Kidney Diseases* 79 (4), S47-S47. NKF's Spring Clinical Meetings 2022.
2. Spina, D, **Biruete, A**, Allen, JM, Cross, TW, Snelson, M, Vorland, C, Kistler, BM. Animal Husbandry Reporting in Rodent Studies of the Gut Microbiome Published in *Kidney Research Journals*. *American Journal of Kidney Diseases* 79 (4), S22-S22. NKF's Spring Clinical Meetings 2022.
3. **Biruete, A**, Cross, TL, Srinivasan, S, O'Neill, K, de Loor, H, Evenepoel, P, Chen, NX, Swanson, KS, Moe, SM. The calcimimetic KP-2326 alters the gut microbiota in a rat model of CKD-MBD. *American Society of Nephrology's Kidney Week* 2021.
4. Schmitz, KM, Cladis, DP, Vorland, CJ, **Biruete, A**, Dominguez, J, O'Neill, K, Chen, NX, Moe, SM, Hill Gallant, KM. Effects of low and high dietary phosphorus and acute high dietary phosphorus on intestinal phosphate transporters and biochemistries in nephrectomized male rats. *American Society of Bone and Mineral Research Meeting*, October 2021.
5. **Biruete, A**, Cross, TL, Lindemann, SR, Swanson, KS, Chen, NX, Moe, SM. Diet has a stronger impact on the gut microbiota than kidney function in rats with moderate chronic kidney disease. *J Am Soc Nephrol* 31: 2020. PO2017.
6. **Biruete, A**, Wiese, G, Cross, TL, Thakkar, R, Lindemann, SR, Stremke, E, Moorthi, RN, Swanson, KS, Moe, SM, Hill Gallant, KM. Changes in the gut microbiota after a controlled feeding study in individuals with chronic kidney disease (CKD) and healthy controls. *J Am Soc Nephrol* 31: 2020. PO2044.
7. **Biruete, A**, Chen, NX, Metzger, CE, Stacy, AJ, Srinivasan, S, O'Neill, K, Dominguez, JM, Avin, KG, Allen, MR, Moe, SM. Comparison of the effects of ferric citrate and intravenous iron on markers of mineral and bone disorder and oxidative stress in a rat model of CKD-MBD. *J Am Soc Nephrol* 31: 2020. PO0317
8. Chen, NX, O'Neill, K, Srinivasan, S, Metzger, C, Allen, MR, Dominguez, J, **Biruete, A**, Avin, KG, Moe, SM. Efficacy of oxidative stress inhibitor alone or combined therapy with a calcimimetics ion a rat model of chronic kidney disease-mineral bone disorder (CKD-MBD). *J Am Soc Nephrol* 31: 2020. PO0316.
9. **Biruete, A**, Srinivasan, S, O'Neill, K, Vorland, C, Hill Gallant, KM, Cai, W, Uribarri, J, Johnston, N, Allen, MR, Chen, NX, Moe, SM. Do you know what your experimental animals eat? *American Society of Nephrology's Kidney*

Week 2019.

10. Wiese, G, **Biruete, A**, Stremke, ER, Thakkar, MS, Moe, SM, Lindemann, SR, Moorthi, RN, Hill Gallant, KM. Gut-derived uremic retention solutes in patients with moderate chronic kidney disease and healthy adults. American Society of Nephrology's Kidney Week 2019.
11. **Biruete, A**, Kistler, BM, Cross, TL, Allen, JM, de Loor, H, Evenepoel, P, Swanson, KS, Wilund, KR. Effect of Dietary Inulin Supplementation on the Gut Microbiota and Derived Metabolites in Hemodialysis Patients. *Oral Communication* at XIX International Congress on Nutrition and Metabolism in Renal Disease. June 2018.
12. Vogt, BP, **Biruete, A**, Song, Y, Highton, P, Borges, MCC, Watanabe, MT, Antonio, KJ, Kistler, BM, Wilund, KR. Comparison of nutritional intake of patients on maintenance hemodialysis in four countries. *Poster Presentation* at XIX International Congress on Nutrition and Metabolism in Renal Disease. June 2018.
13. Song, Y, Highton, PJ, Vogt, BP, **Biruete, A**, Wilund, K, Smith, AC, Burton, J. Narrowing the Phosphate Divide: A Comparison between UK and Chinese Haemodialysis Patients. *J Am Soc Nephrol* 28 (Abstract Supplement): 210. October 2017.
14. Cervantes, LS\*, Leyva, JA, Cortina, RA, Martinez del Rio, I, Leon, J, Olea, OO, **Biruete, A**. Effects of a dextrose, amino acid, and L-carnitine-based peritoneal dialysis solution on nutritional biomarkers in incident peritoneal dialysis patients. *Clinical Nutrition*. 36 (Supplement 1): S 35. September 2017. \**Travel Award-Poster Tour Nutrition and Chronic Diseases*.
15. **Biruete, A**, Kistler, B, Allen, J, Bauer, L, Fahey, G, Swanson, K, Wilund, K. Effects of inulin supplementation on mineral metabolism and fecal short-chain fatty acid excretion in hemodialysis patients. *Nephrology Dialysis Transplantation* 32(suppl\_3): iii588-iii589. May 2017. DOI: 10.1093/ndt/gfx172.MP434
16. Wilund, K, Jeong, JH, Fernhall, B, **Biruete, A**, Perez, LM, Mitchell, K. Acute hemodynamic responses to intradialytic exercise. *Nephrology Dialysis Transplantation* 32(suppl\_3): iii600-iii600. May 2017. DOI: 10.1093/ndt/gfx173.MP467
17. **Biruete, A**, Kistler, B, Wiens, K, Fitschen, P, Wilund, KR. The relationship between dietary sodium, source, and cardiovascular risk factors in maintenance hemodialysis patients. *Blood Purification*. 43(1-3):258. January 2017.
18. Kistler, B, **Biruete, A**, Chapman-Novakofski, K, Wilund, KR. Dietary intake of hemodialysis patients during treatment at a clinic that allows patients to bring food. *Blood Purification*. 43(1-3):258. January 2017.
19. **Biruete, A**, Fitschen, P, Jeong, JH, Wu, PT, Tomayko, E, Wilund, KR. Intradialytic Protein Supplementation Increases Protein Intake in Older, but not Younger, Hemodialysis Patients and is Associated with Improved Hip Bone-Mineral Density. American Society of Nephrology Kidney Week 2016.
20. Kistler, BM, **Biruete, A**, Jeong, JH, Fitschen, PJ, Heffernan, K, Chapman-Novakofski, KM, Ikizler, TA, Wilund, KR. Acute Effects of Nutritional Supplementation during Hemodialysis on Hemodynamics and Symptoms. American Society of Nephrology Kidney Week 2016.
21. Jeong, JH, Wu PT, **Biruete, A**, Kistler, BM, Fernhall, B, Wilund, KR. Interplay between Arterial Functional and Structural Alterations and Their Contribution to Cardiac Abnormalities in Hemodialysis Patients. American Society of Nephrology Kidney Week 2016.
22. **Biruete, A**, Allen, JM, Kistler, BM, Jeong, JH, Fitschen, PJ, Swanson, KS, Wilund, KR. Gut microbiome and clinical risk factors in maintenance hemodialysis patients. *Nephrol. Dial. Transplant.* (2016) 31 (suppl 1):i205.
23. Highton, PJ, **Biruete, A**, Vogt, BP, Smith, AC. The relationship between self-reported nutritional intake, biochemical markers and anthropometric measures in hemodialysis patients. UK Kidney Week, Birmingham, June 2016.
24. **Biruete, A**, Kistler B, Highton P, Wiens, K, Fitschen, P, Wilund K. Eating patterns differences between maintenance hemodialysis patients from the US and the UK and its association with food insecurity. ASN Kidney Week 2015.
25. Kistler, BM, Jeong, JJ, Wu, PT, Fitschen, PJ, **Biruete, A**, Fernhall, B, Wilund, KR. Sex differences in the relationship between arterial stiffness and physical fitness in maintenance hemodialysis patients. *Medicine and Science in Sports and Exercise*. 2015. 47 (5S).
26. Fitschen, PJ, Kistler, BM, Jeong, JH, Wu, PT, **Biruete, A**, Harris, A, Fernhall, B, Wilund KR. Association between physical activity levels and co-morbid conditions in hemodialysis patients. *Medicine and Science in Sports and*

Exercise. (2015) 47 (5S): S1:406.

27. Wilund, KR, **Biruete, A**, Barnes, JL, Kistler BM, Wiens K. Characterization of eating patterns in hemodialysis patients. *Nephrol. Dial. Transplant.* (2015) 30 (suppl 3).
28. Jeong, JH, Wu, P, Fitschen, PJ, Kistler, BM, **Biruete, A**, Park, HW, Ali, MM, Fernhall, B, Wilund, KR. (2014). Arterial and Cardiac Alterations and Their Relationships to Exercise Intolerance in Maintenance Hemodialysis Patients. *American Society of Nephrology*. Philadelphia, PA.
29. **Biruete, A.**, Kistler, BM, Fitschen, PJ, Wiens, K, Wilund, KR. (2014). Foods consumed away from the home are associated with increased arterial wave reflection. *International Society of Renal Nutrition and Metabolism*. Wurzburg, Germany.
30. Kistler, BM., Learmonth, Y., Fitschen, PJ., Ensari, I., **Biruete, A.**, Sandroff, BM., Jeong, JH., Motl, RW., Wilund, KR. (2014) Blood flow restriction training does not increase muscular gains in persons with Multiple Sclerosis. *American College of Sports Medicine*. Orlando, Florida.
31. Kistler, BM, **Biruete, A.**, Fitschen, P.F., Jeong, JH. Chapman-Novakofski, K. & Wilund, KR. (2014). Intradialytic protein supplementation does not reduce blood pressure, treatment efficiency, or increase gastrointestinal symptoms in maintenance hemodialysis patients. *International Society of Renal Nutrition and Metabolism*. Wurzburg, Germany.
32. **Biruete, A**, Shin S, Chung HR, Kistler BM, Fitschen PJ, Wilund KR. Gait in Hemodialysis Patients. *Blood Purif.* 2013; 35: 171.
33. **Biruete, A.**, Leyva-Islas J.A., Olea-Salinas OO, Martínez del Río-Requejo I. Use of a Corn-Based beverage supplemented with glutamine and docosahexaenoic acid for cow's milk protein allergy. *Clinical Nutrition Supplements*. 2012; 7(1): 129-130.

#### Invited Book Chapters:

1. **Biruete, A**, Kistler, BM. Hypertension. In: L.D. Byham-Gray et al. (eds.). *Nutrition in Kidney Disease, Third Edition*.
2. **Biruete, A**, Uribarri, J. Advanced Glycation End Products. In: L.D. Byham-Gray et al. (eds.). *Nutrition in Kidney Disease, Third Edition*.

#### Blog Posts:

1. **Biruete, A.** "Therapies targeting gut microbiota in chronic kidney disease: exciting ideas, but not supported by the current evidence" *American Society for Nutrition*, 7 Nov. 2018, <https://nutrition.org/therapies-targeting-gut-microbiota-in-chronic-kidney-disease-exciting-ideas-but-not-supported-by-the-current-evidence/>
2. **Biruete, A.** "When calcium is not equal to bone health" *American Society for Nutrition*, 30 Jul. 2018, <https://nutrition.org/when-calcium-is-not-equal-to-bone-health/>
3. **Biruete, A.** "Is it time to rethink the traditional renal diet?" *American Society for Nutrition*, 29 Apr. 2018, <https://nutrition.org/is-it-time-to-rethink-the-traditional-renal-diet/>
4. **Biruete, A.** "The gut microbiota and kidney disease- will it survive the hype?" *Renal Fellow Network*, 23 Mar. 2017 <http://renalfellow.blogspot.com/2017/03/nephmadness-2017-gut-microbiota-and.html>

#### **ORAL PRESENTATIONS AND INVITED LECTURES:**

2022. Instituto Nacional de Cardiología Ignacio Chavez Online Course- Nephrology conceptual bases and renal replacement therapies: "The gut microbiome in chronic kidney disease." Invited Talk (virtual).

2022. 5<sup>th</sup> Annual Congress of Renal Nutrition of the Mexican College of Renal Dietitians: "Renal Nutrition in the United States." Invited Talk (virtual).

2022. Indiana University School of Medicine G819 Bone Biology: "The gut microbiome and bone." Invited Lecture (in-person).

2022. Indiana University School of Medicine, Division of Nephrology Fellowship: "Nutritional management of chronic

kidney disease.” Invited lecture (in person).

2021. Renal Dietitians Update Day from the Australian and New Zealand Society of Nephrology Annual Scientific Meeting: “Impact of plant-based diets on gastrointestinal function and the gut microbiome in individuals with CKD.” Invited Talk (virtual).

2021. XLVIII Conference from the Mexican Institute of Nephrology Research (IMIN)- NIN Sponsored session: “Diet components and their influence on intestinal dysbiosis in chronic kidney disease.” Invited talk (virtual).

2021. 4<sup>th</sup> Annual Congress of Renal Nutrition of the Mexican College of Renal Dietitians (COMENUR): “Dysbiosis in Chronic Kidney Disease.” Invited talk (virtual).

2021. Universidad Mexiquense del Bicentenario- Unidad de Estudios Superiores Ixtlahuaca: “The gut microbiome in chronic kidney disease.” Invited talk (virtual).

2021. Purdue University- Interdepartmental Nutrition Program: “The role of the gut microbiome in chronic kidney disease-mineral and bone disorder.” Invited Talk (virtual).

2021. IUPUI Nutrition and Dietetics Department: “Multicultural Plant-based diets.” Invited lecture (virtual).

2021. Nutritionist Day Celebration- Hospital Centenario Miguel Hidalgo, Aguascalientes, Mexico: “The role of the gut microbiome in chronic kidney disease.” Invited Talk (virtual)

2020. Renal Research Seminar from the IU Division of Nephrology: “The gut microbiome in chronic kidney disease-mineral and bone disorder.” Invited talk (virtual).

2020. 45<sup>th</sup> Anniversary of the Interdisciplinary Health Sciences Center of the National Polytechnic Institute (IPN): “Becoming a Nutritional Sciences Researcher.” Invited Talk (virtual).

2020. 1<sup>st</sup> Scientific Session of the Guatemala Association of Dietitians (ANDEGUAT)- Invited Talk: “Nutritional implications of the gut microbiome in chronic kidney disease.” Virtual Meeting.

2020. NUTR 696 Renal Nutrition- Invited Online Lecture: “The gut microbiome in chronic kidney disease” Ball State University.

2020. 3<sup>rd</sup> Annual Congress of Renal Nutrition of the Mexican College of Renal Dietitians (COMENUR)- Invited Talk: “The gut microbiota and chronic kidney disease-mineral and bone disorder.” Puebla, Mexico.

2019. IUPUI DPT program- Invited Lecture: “Nutrition in the Older Adult” Indiana University Purdue University Indianapolis. Indianapolis, IN

2019. Renal Nutrition Symposium of the National Institute of Medical Sciences and Nutrition “Dr. Salvador Zubiran”- Invited Talk: “The impact of hydration status on the gut microbiome in patients with chronic kidney disease”. Mexico City, Mexico.

2019. Dietetic Internship Series- Invited Talk: “Becoming a Nutrition Researcher” Indiana University Purdue University at Indianapolis, Indianapolis, IN.

2019. World Congress of Nephrology- Invited Panelist: “Nutrition Strategies to optimize medical management of CKD-MBD” Melbourne, VIC, Australia.

2018. Council on Renal Nutrition of Indiana Fall Meeting- Invited Talk: “The importance of the gut microbiome in kidney disease” Indianapolis, IN.

2018. XX National Congress and XVI Latin American Congress of Clinical Nutrition, Nutrition Therapy, and Metabolism (FELANPE) - Invited Talk: “Pro-, Pre-, and Synbiotics in Chronic Kidney Disease” Guadalajara, Mexico.

2018. XX National Congress and XVI Latin American Congress of Clinical Nutrition, Nutrition Therapy, and Metabolism (FELANPE) – Invited Talk: “Young People and The Future of Nutrition: How to Achieve What Many Believe is Impossible- Amplifying your Vision Through Research” Guadalajara, Mexico.

2018. XIX International Congress on Nutrition and Metabolism in Renal Disease- Oral Presentation: “Effect of Dietary Inulin Supplementation on the Gut Microbiota and Derived Metabolites in Hemodialysis Patients” Genoa, Italy.

2017. NUTR 696 Renal Nutrition- Invited Online Lecture: “Phosphorus in Chronic Kidney Disease and End-Stage Kidney



Disease” Ball State University. Muncie, IN.

2017. FSHN 421 Pediatric Clinical Nutrition- Invited Lecture: “Chronic Kidney Disease and Nutrition in Pediatrics” University of Illinois. Urbana, IL.

2017. KIN 494 Nutrition and Exercise in Chronic Kidney Disease- Invited Lecture: “Nutrition and Mineral Metabolism in Chronic Kidney Disease” University of Illinois. Urbana, IL.

2016. American Society of Nephrology Kidney Week 2016- Oral Presentation: “Intradialytic Protein Supplementation Increases Protein Intake in Older, but not Younger, Hemodialysis Patients and Is Associated with Improved Hip Bone Mineral Density” Chicago, IL.

2016. FCFN 345 Macronutrients- Invited Lecture: “Dietary Fiber” Ball State University. Muncie, IN.

2016. FSHN 420 Nutritional Aspects of Disease- Invited lecture: “Medical Nutrition Therapy for Renal Disease”. University of Illinois. Urbana, IL.

2016. Nutrition Symposium of the Nutritional Sciences Graduate Student Association- Oral Presentation: “Gut microbiome and clinical risk factors in maintenance hemodialysis patients” University of Illinois. Urbana, IL.

2016. NUTR 561 Cardiovascular Disease and Nutrition- Invited lecture: “Cardiovascular assessment through applanation tonometry, echocardiography and peripheral biopedance” University of Illinois. Urbana, IL.

2015. FSHN 420 Nutritional Aspects of Disease- Invited lecture: “Medical Nutrition Therapy for Renal Disease”. University of Illinois. Urbana, IL.

2015. 20<sup>th</sup> Clinical Nutrition Symposium of the Regional Hospital “Lic. Adolfo López-Mateos”- Invited Talk: “Gut microbiome and mineral and bone disorder”. Mexico City, Mexico.

2015. Community of Scholars- University of Illinois at Urbana-Champaign. Oral Presentation: “Dietary sodium intake in maintenance hemodialysis patients by point of purchase and food category.” Champaign, IL.

2015. National Institute of Cardiology- Division of Nephrology. Invited Talk: “Dietary patterns differences between maintenance hemodialysis patients from the US and the UK.” Mexico City, Mexico.

2012. Regional Hospital “Lic. Adolfo López-Mateos”- Invited Talk: “Nutrition in End-stage kidney disease undergoing renal replacement therapy” Mexico City, Mexico.

2011. 16<sup>th</sup> Clinical Nutrition Symposium of the Regional Hospital “Lic. Adolfo López-Mateos”- Invited Talk: “Nutritional Treatment for Childhood Obesity” Mexico City, Mexico.

2011. Nutrition Symposium of the General Hospital “Dr. Gilberto Flores-Izquierdo”- Invited Talk: “Nutritional Treatment for Childhood Obesity” Mexico City, Mexico.

2010. 15<sup>th</sup> Clinical Nutrition Symposium of the Regional Hospital “Lic. Adolfo López-Mateos”-Invited Talk: “Innovative low-cost formulas to improve the nutritional status of patients with cow-milk protein allergy” Mexico City, Mexico.

## **SERVICE:**

### **Journal or Renal Nutrition**

- Editorial Board Member (January 2019-present)
- Social Media Manager (November 2018-present)

### **American Society of Nephrology**

- Diversity, Equity, and Inclusion Committee (January 2022-present)

### **National Kidney Foundation**

- Kidney Commute Podcast Planning Committee (April 2021-present)

### **International Society of Renal Nutrition and Metabolism**

- Co-Chair of Education Committee (November 2020-present)
- Member of Patient Resources Committee (November 2020-present)

- Member of Publication Committee (February 2021-present)
- Member of Social Media Committee (March 2021-present)

#### **Ad-hoc Reviewer**

- Journal of Renal Nutrition, Nephrology Dialysis and Transplantation, Kidney International, Clinical Journal of the American Society of Nephrology (CJASN), Kidney360, International Urology and Nephrology, Journal of Parenteral and Enteral Nutrition, Current Developments in Nutrition, Nutrients Journal, Journal of Clinical Medicine, Revista de Investigación Clínica, eLife, Osteoporosis International, Nutrition in Clinical Practice, Journal of the Academy of Nutrition and Dietetics, Journal of Nephrology, Blood Purification.

#### **American Society of Parenteral and Enteral Nutrition**

- Chair of Student and Trainee Section (2017-2020)
- New Practitioner Working Group Volunteer Appointee (2018-2020)
- Abstract Review Committee for ASPEN’s Nutrition Science and Practice Conference 2019, 2020

#### **Academy of Nutrition and Dietetics**

- Expert workgroup member for the Nutrition Research Network Project “Assessing Uptake and Impact of Guidelines for Clinical Practice in Renal Nutrition (AUGmeNt Study)”

#### **American Society for Nutrition**

- Abstract reviewer for Nutrition 2018
- Blogger 2018-2019

#### **Graduate College, University of Illinois at Urbana-Champaign**

- 2015 Educational Equity Program

#### **Team Kidney of the National Kidney Foundation of Illinois**

- Raise funds for the National Kidney Foundation of Illinois during the Illinois Marathon 2014, 2015, and 2016

#### **Clinical Practice Guidelines Reviewer: Health Department-Mexico**

- Internal Validation: Diagnóstico y tratamiento de la alergia alimentaria en niños (Clinical Practice Guidelines for Diagnostic and Treatment for food allergies in children). Mexico: Health Department, 2011.
- External Validation: Manejo de la alergia a la proteína de la leche de vaca. (Clinical Practice Guidelines for Assessment for cow’s milk protein allergy). Mexico: Health Department, 2011.

#### **PROFESSIONAL MEMBERSHIPS:**

- National Kidney Foundation (NKF) | Council of Renal Nutrition | Dietitian member
- International Society of Renal Nutrition and Metabolism (ISRNM) | Dietitian member
- American Society of Nephrology (ASN) | Member
- Academy of Nutrition and Dietetics (AND) | Renal Practice Group | Research Dietetics Practice Group
- American Society for Nutrition (ASN) | Early career member