

CURRICULUM VITAE

TAMAR RINGEL-KULKA, MD, MPH

ADDRESS

Department of Maternal and Child Health
Gillings School of Global Public Health
404A Rosenau Hall, CB#7445
The University of North Carolina at Chapel Hill
Chapel Hill, North Carolina 27599-7445
Email: ringelta@email.unc.edu
(voice) (919) 843-1054

EDUCATION

POSTGRADUATE STUDIES:

- 2000 Master of Public Health (MPH), School of Public Health (SPH)
Department of Health Policy and Administration (HPAA)
University of North Carolina at Chapel Hill
Chapel Hill, NC
- 1997 Post-graduate studies in Adolescent Medicine
Sackler Faculty of Medicine
School of Continuing Medical Education Tel Aviv University, Israel
- 1994 Diploma in Pediatric Medicine,
Sackler Faculty of Medicine, School of Continuing Medical Education
Tel Aviv University, Israel
- 1980-1987 MEDICAL SCHOOL
Medical Doctor (MD), **Cum Laude**, Faculty of Medicine
Technion-Israel Institute of Technology, Haifa, Israel

PROFESSIONAL TRAINING AND EXPERIENCE

- 2016-present DIRECTOR, PI
North Carolina Child Care Health and Safety Resource Center
Department of Maternal & Child Health,
Gillings School of Global Public Health
The University of North Carolina at Chapel Hill, Chapel Hill, NC
<http://www.healthychildcarenc.org/>
- 2006-present RESEARCH ASSISTANT PROFESSOR
Department of Maternal & Child Health,
Gillings School of Global Public Health
The University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2004-2006 RESEARCH ASSISTANT PROFESSOR
Department of Epidemiology, School of Public Health
The University of North Carolina at Chapel Hill, Chapel Hill, NC

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- 2002-2006 **PROJECT MANAGER**
Center for Education and Research on Therapeutics (CERT)
The University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2002-2004 **RESEARCH ASSISTANT PROFESSOR**
Department of Pharmaceutical Policy & Evaluative Sciences (PPES)
School of Pharmacy
The University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2000-2001 **MEDICAL MANAGER INTERNSHIP**
CareONnet.com
Telemedicine start-up company, Tel Aviv, Israel
- 2000 **TEACHING ASSISTANT**
Health Policy and Administration (HPAA) (Professor James Veney)
School of Public Health
The University of North Carolina at Chapel Hill, Chapel Hill, NC
- 1999 **RESEARCH ASSISTANT**
Health Policy and Administration (HPAA) (Dr. Pam Silberman)
School of Public Health
The University of North Carolina at Chapel Hill, Chapel Hill, NC
- SENIOR STAFF PEDIATRICIAN**
Clalit Health Services, Tel Aviv, Israel (largest HMO in IL):
- 1995-1998 **Founder & Director, Multidisciplinary Adolescent Health Services,**
1994-1998 **Larger Tel Aviv metropolitan area, Israel**
- 1994-1998 **Private pediatric clinic, Community Group Practice**
- 1993-1998 **Pediatric clinic, Large Community HMO Group Practice**
- 1988-1993 **MEDICAL RESIDENCY**
Department of Pediatrics,
Asaf Harofeh Medical Center, Beer-Yaakov, Israel
- 1987-1988 **MEDICAL INTERNSHIP**
The Edith Wolfson Medical Center, Holon, Israel

MEDICAL BOARD CERTIFICATION

- 1993-present Israeli Medical Board Certification in Pediatric medicine (#13199)
- 1987-present Israeli Medical Board Certification in General medicine (#21589)

HONORS AND AWARDS

- 1998 American Physician Fellowship Program for Medicine in Israel,
Fellowship.
- 1998 Israeli Medical Association Scholarship.
- 1985 Technion-Israel Institute of Technology, Faculty of Medicine.
- 1985 Ru Scholarship for scholastic achievements.
- 1981/1982, 1982/1983, 1985/1986 Technion-Israel Institute of Technology,
Faculty of Medicine, Dean's List of Honors for scholastic
achievements.

MEMBERSHIPS (Past & Present)

2011-present	Associate Member, UNC Center for Gastrointestinal Biology and Disease
2010-present	UNC-Chapel Hill Nutrition Obesity Research Center (NORC)
2010-present	Carolina Global Breastfeeding Institute (CGBI) 2010-present
2010	American Public Health Association (APHA)
2010	A.S.P.E.N – American Society for Parenteral and Enteral Nutrition
2005	International Society for Pharmacoepidemiology (ISPE)
2000-2016	American College of Healthcare Executives (ACHE)
2000	American Telemedicine Association (ATA)
1998	<i>Executive Committee</i> , Israel Society for Adolescent Medicine
1997	Israel Society for Adolescent Medicine
1996-1998	American Society for Adolescent Medicine (SAM)
1993	Israeli Association of Ambulatory Pediatrics
1987-present	Israeli Medical Association

PUBLICATIONS

BOOKS AND CHAPTERS (***) Visiting scholar or a clinical Fellow)

1. **Ringel-Kulka T**, Ringel Y. Evaluation of chronic abdominal pain. In: Thomas A, editor. *British Medical Journal Best Practice / ePOCRATES*. BMJ. <https://bestpractice.bmj.com/topics/en-us/767>. Last updated: 2/2020. (Updated:2018, 2017, 2016, 2014, 2012, 2011, 2010, 2009; First published 2008).
2. Jensen ET, ***Bertelsen RJ, **Ringel-Kulka T**. The microbiota of the gastrointestinal tract in infancy. In: *The microbiota in gastrointestinal pathophysiology: Implications for human health, prebiotics, probiotics and dysbiosis*. Floch M. lead editor, Elsevier 2016.
3. ***Frantz DJ, **Ringel-Kulka T**. Obesity and eating disorders. In: DiBaise JK, editor. *Gastroenterology and hepatology board review*. 3rd ed. New York (NY): McGraw-Hill Medical Publishing, Inc; 2012. p. 343-52.
4. Carroll MI, **Ringel-Kulka T**, Ringel Y. Quantification and identification of probiotic organisms in humans. In: Floch MH, Kim AS, editors. *Probiotics: A clinical guide*. New Jersey: SLACK Incorporated; 2010. p.59-69.
5. Cohen D, Drossman DA, **Ringel-Kulka T**. Obesity and eating disorders. In: DiBaise, JK, editor. *Gastroenterology and hepatology, pearls of wisdom*. Boston (MA): Boston Medical Publishing, Inc. 2000. p. 147-54.

ORIGINAL PEER REVIEWD PUBLICATIONS (*mentoring Master/PhD/Medical students)

In preparation:

1. **Ringel-Kulka T**, Chou CJ, Bruce S, Henry H, Lauber CL, Betrisey B, Ringel Y. Bacteria Modified Bile Acids - A Possible Mechanism For Symptoms Severity In Patients With Irritable Bowel Syndrome.

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2. Vindenes HK, **Ringel-Kulka T**, Peddada S, Kaul A, Real FG, Svanes C, Bertelsen RJ. Exposure to antibacterial chemicals and oral microbiome in the RHINESSA study. 30 pages.
3. Triebner K, Vindenes HK, Dadvand P, Real FG, Hustad S, **Ringel-Kulka T**, Svanes c, Bertelsen RJ. Ethylparaben is associated with elevated female sex hormones in Norwegian adults. 13 pages.

Submitted:

1. Bertelsen RJ, Barrionuevo AMP, Lie SA, Real FG, **Ringel-Kulka T**, Åstrøm AN, Svanes C. Association of oral bacteria with oral hygiene habits and periodontal health. Revision to be submitted to Journal of Clinical Periodontology in Feb 2021.
2. *Basnet R, Simmons J, Laux J, Peterson A, **Ringel-Kulka T**. Trends of Medication Violations in Child Care Settings in North Carolina, 2012- 2016. Submitted to AJPH.
3. Vindenes HK, Svanes C, Lygre SHL, **Ringel-Kulka T**, Real FG, Bertelsen RJ. Exposure to environmental phenols and parabens and overweight and atopy in the Norwegian RHINESSA study. Revisions submitted to Environmental Health.

Published original publications (#equal contribution):

1. Eijsbouts C et al. and the Bellygenes initiative banner authorship. Genetic analysis of 53,400 people with irritable bowel syndrome highlights shared pathways with neuroaffective traits. Accepted with minor revisions to Nature Genetics (IF=27.6)
<Data for analysis contributed by many groups around the world with many co-authors. Ours is part of the Bellygenes initiative banner authorship and the authors names and affiliations are included in the supplementary appendix to the manuscript>
2. Khodakivskyi PV, Lauber CL, Yevtodiyenko A, Bazhin AA, Bruce S, **Ringel-Kulka T**, Ringel Y, Bétrisey B, Torres J, Hu J, Chou CJ, Goun EA. Noninvasive imaging and quantification of bile salt hydrolase activity: from bacteria to humans. Sci Adv. 2021;7(6):eaaz9857. doi: 10.1126/sciadv.aaz9857. (Print Feb 2021). (IF=13)
3. Hod K, Ringel Y, van Tilburg M, **Ringel-Kulka T**. Bloating in irritable bowel syndrome is associated with symptoms severity, psychological factors and comorbidities. Dig Dis Sci. 2019 May;64(5):1288-1295. doi: 10.1007/s10620-018-5352-5. Epub 2018 Dec 18.
4. *Liberty AL, *Wouk K, Chetwynd E, **Ringel-Kulka T**. A geospatial analysis of the impact of the Baby-Friendly Hospital Initiative on breastfeeding initiation in North Carolina. J Hum Lact. 2019;35(1):114-126.
5. Maharshak N, Ringel Y, Katibian D, Lundqvist A, Sartor RB, Carroll IM, **Ringel-Kulka T**. Luminal and mucosa-associated intestinal microbiota in patients with diarrhea predominant irritable bowel syndrome. Dig Dis and Sci. 2018;63(7):1890-1899.
6. Zifman E, Banai H, Shamir R, **Ringel-Kulka T**, Zevit N. Practice differences in the diagnosis and management of adult and pediatric Eosinophilic Esophagitis. J Pediatr Gastroenterol Nutr. 2018;67(1):34-39.

7. **Ringel-Kulka T**, McRorie J, Ringel Y. Multi-center, double-blind, randomized, placebo-controlled, parallel-group study to evaluate the benefit of the probiotic *Bifidobacterium infantis* 35624 in non-patients with symptoms of abdominal discomfort and bloating. *Am J Gastroenterol*. 2017 Jan;112(1):145-151.
8. Bertelsen RJ, Jensen ET, **Ringel-Kulka T**. Use of probiotics and prebiotics in infant feeding. *Best Pract Res Clin Gastroenterol*. 2016 Feb;30(1):39-48. (Invited review).
9. **Cheng J#, **Ringel-Kulka T#**, Heikamp-de Jong I, Ringel Y, Carroll IM, de Vos WM, Salojärvi J, Satokari R. Discordant temporal development of bacterial phyla and the emergence of core in the fecal microbiota of young children. *ISME J*. 2016 April;10(4):1002-14. Epub 2015 Oct 2.
10. **Ringel-Kulka T**, Benson AK, Carroll IM, Kim J, Legge RM, Ringel Y. Molecular characterization of the intestinal microbiota in patients with and without abdominal bloating. *Am J Physiol Gastrointest Liver Physiol*. 2016 Mar 15;310(6):G417-26. Epub 2015 Dec 23.
11. *Hod K, **Ringel-Kulka T**, Martin CF, Maharshak N, Ringel Y. High sensitive C-reactive protein as a marker for inflammation in irritable bowel syndrome. *J Clin Gastroenterol*. 2016 Mar;50(3):227-32. doi: 10.1097/MCG.0000000000000327.
12. Ringel Y, **Ringel-Kulka T**. The intestinal microbiota and irritable bowel syndrome. *J Clin Gastroenterol*. 2015 Nov-Dec;49 Suppl 1:S56-9. (Invited review).
13. **Ringel-Kulka T#**, ***Choi CH#, Tamas D, ***Kim A, Maier D, Scott K, Galanko JA, Ringel Y. Altered colonic bacterial fermentation as a potential pathophysiological factor in irritable bowel syndrome. *Am J Gastroenterol*. 2015 Sep;110(9):1339-46. DOI: 10.1038/ajg.2015.220. Epub 2015 Aug 25.
14. **Ringel-Kulka T**, Kotch JB, *Jensen ET, Savage E, Weber DJ. Randomized, double-blind, placebo-controlled study of synbiotic yogurt effect on the health of children. *J Pediatr*. 2015 Jun;166(6):1475-81. DOI: 10.1016/j.jpeds.2015.02.038. Epub 2015 Apr 1.
15. Zhao N, Chen J, Carroll IM, **Ringel-Kulka T**, Epstein MP, Ringel Y, Li H, Wu MC. Testing in microbiome-profiling studies with MiRKAT, the Microbiome Regression-Based Kernel Association Test. *Am J Hum Genet*. 2015 May 7;96(5):797-807. DOI: 10.1016/j.ajhg.2015.04.003.
16. Ringel Y, Maharshak N, **Ringel-Kulka T**, Wolber EA, Sartor RB, Carroll IM. High throughput sequencing reveals distinct microbial populations within the mucosal and luminal niches in healthy individuals. *Gut Microbes*. 2015 6(3):173-81. DOI: 10.1080/19490976.2015.1044711.
17. *Huang JY, Wang KY, **Ringel-Kulka T**. Predictors of life satisfaction among Asian American adolescents – analysis of Add Health data. *Springerplus*. 2015 May;6(4):216. DOI: 10.1186/s40064-015-1008-5. eCollection 2015.
18. **Ringel-Kulka T**, *Goldsmith JR, Carroll IM, Barros SP, Palsson O, Jobin C, Ringel Y. *Lactobacillus Acidophilus* NCFM affects colonic mucosal opioid receptors expression in patients with functional abdominal pain – a randomized clinical study. *Aliment Pharmacol Ther*. 2014 Jul;40(2):200-7. DOI: 10.1111/apt.12800. [Epub ahead of print].
19. Annaházi A, Ferrier L, Bézirard V, Leveque M, Eutamene H, Ait-Belgnaoui A, Coëffier M, Ducrotté P, Róka R, Inczefi O, Gecse K, Rosztóczy A, Molnar T, **Ringel-Kulka T**,

- Ringel Y, Piche T, Theodorou V, Wittmann T, Bueno L. Luminal cysteine-proteases degrade colonic tight junction structure and are responsible for abdominal pain in constipation-predominant IBS. *Am J Gastroenterol*. 2013 Aug;108(8):1322-31. DOI: 10.1038/ajg.2013.152. Epub 2013 May 28.
20. *Jensen ET, Kappelman MD, Kim HP, **Ringel-Kulka T**, Dellon ES. Early life exposures as risk factors for pediatric eosinophilic esophagitis. *J Pediatr Gastroenterol Nutr*. 2013 57(1):67-71.
 21. **Ringel-Kulka T**, Cheng J, Ringel Y, Salojärvi J, Carroll IM, Palva A, de Vos WM, Satokari R. Intestinal microbiota in healthy U.S. young children and adults – A high throughput microarray analysis. *PLoS ONE*. 2013 23;8(5):e64315. DOI: 10.1371/journal.pone.0064315. Print 2013.
 22. Carroll IM, **Ringel-Kulka T**, Ferrier L, Wu MC, Siddle JP, Bueno L, Ringel Y. Fecal protease activity is associated with compositional alterations in the intestinal microbiota. *PLoS ONE*. 2013 Oct 17;8(10):e78017. DOI: 10.1371/journal.pone.0078017. eCollection 2013.
 23. **Ringel-Kulka T**. Evidence-base for probiotic products for the pediatric population. *J Pediatr Gastroenterol Nutr*. 2012 May;54(5):578-9. (Invited review).
 24. **Ringel-Kulka T**. Targeting the intestinal microbiota in the pediatric population – a clinical perspective. *Nutr Clin Pract*. 2012 Apr;27(2):226-34. Epub 2012 Mar 8. (Invited review).
 25. Carroll IM, **Ringel-Kulka T**, Siddle JP, Ringel Y. Alterations in composition and diversity of the intestinal microbiota in patients with diarrhea-predominant irritable bowel syndrome. *Neurogastroenterol Motility*. 2012 Jun;24(6):521-30, e248. DOI: 10.1111/j.1365-2982.2012.01891.x. Epub 2012 Feb 20.
 26. Carroll IM, **Ringel-Kulka T**, Siddle J, Klaenhammer TR, Ringel Y. Characterization of the fecal microbiota using high-throughput sequencing reveals a stable microbial community during storage. *PLoS ONE*. 2012 7(10):e46953. DOI: 10.1371/journal.pone.0046953. Epub 2012 Oct 5.
 27. Ringel Y, **Ringel-Kulka T**. The rational and clinical effectiveness of probiotics in irritable bowel syndrome. *J Clin Gastroenterol*. 2011 Nov;45:S145–8. doi: 10.1097/MCG.0b013e31822d32d3. (Invited review).
 28. Carroll IM, **Ringel-Kulka T**, Keku TO, Chang YH, Packey CD, Sartor RB, Ringel Y. Molecular analysis of the luminal-and mucosal-associated intestinal microbiota in diarrhea-predominant irritable bowel syndrome. *Am J Physiol Gastrointest Liver Physiol*. 2011 Nov 301(5):G799–807. DOI: 10.1152/ajpgi.00154.2011. Epub 2011 Jul 7.
 29. [**Ringel-]Kulka TR**, *Jensen ET, McLaurin S, Woods E, Bowling M, Kotch J, Labbok M, *Dardess P, Baker S. Community based participatory research of breastfeeding disparities in African American women. *Infant Child Adolesc Nutr*. 2011 3(4):233-9. DOI:10.1177/1941406411413918.
 30. **Ringel-Kulka T**, Palsson OS, Maier D, Carroll I, Galanko JA, Leyer G, Ringel Y. Probiotic bacteria *Lactobacillus acidophilus* NCFM and *Bifidobacterium lactis* Bi-07 versus placebo for the symptoms of bloating in patients with functional bowel disorders: a double-blind study. *J Clin Gastroenterol*. 2011 Jul;45(6):518-25. DOI: 10.1097/MCG.0b013e31820ca4d6.

31. Reid G, Gaudier E, Guarner F, Huffnagle GB, Macklaim J, Munoz AM, Martini M, **Ringel-Kulka T**, Sartor B, Unal RR, Verbeke K, Walter J. Responders and non-responders to probiotic interventions: How can we improve the odds? *Gut Microbes*. 2010 May-Jun;1(3):200-4. DOI: 10.4161/gmic.1.3.12013.
32. West SL, *D'Aloisio AA, **Ringel-Kulka T**, Waller AE, Clayton Bordley W. Population-based drug-related anaphylaxis in children and adolescents captured by South Carolina Emergency Room Hospital Discharge Database (SCERHDD) (2000-2002). *Pharmacoepidemiol Drug Saf*. 2007 Dec;16(12):1255-67.
33. **Ringel-Kulka T**, Ringel Y. Probiotics in irritable bowel syndrome: Has the time arrived? *Gastroenterology*. 2007 Feb; 132(2):813-6; discussion 816.
34. Shpilberg O, Peretz H, Zivelin A, Yatuv R, Chetrit A, **Kulka T**, Stern C, Weiss E, Seligsohn U. One of the two common mutations causing factor XI deficiency in Ashkenazi Jews (type II) is also prevalent in Iraqi Jews, who represent the ancient gene pool of Jews. *Blood*. 1995 15:85(2):429-32.
35. Siegman-Igra Y, **Kulka T**, Schwartz B, Konforti N. Polymicrobial and monomicrobial bacteremic urinary tract infection. *J Hosp Infect*. 1994 28:49-56.
36. Siegman-Igra Y, **Kulka T**, Schwartz B, Konforti N. The significance of polymicrobial growth in urine: contamination or true infection. *Scand J Infect Dis*. 1993 25:85-91.)

NON-REFERRED PUBLICATIONS and TECHNICAL REPORTS

1. **Ringel-Kulka T**, Simmons J. Recommendations for Revised Administration of Medication Training Requirements. Submitted to The North Carolina Child Care Commission on April 2018. 5 pages.
2. **Ringel-Kulka T**, Simmons J, Reardon J, Stenersen T and the North Carolina Child Care Health Consultants Association (NC CCHCA). Written Comments to the Proposed Temporary Rulemaking by the Child Care Commission. Submitted to The North Carolina Child Care Commission on May 2017. 6 pages.

EDITORIALS and COMMENTARIES

1. ***Choi CH, **Ringel-Kulka T**, Ringel Y. Response to Valeur et al. and Farmer et al. *Am J Gastroenterol*. 2016 Jan;111(1):147-8.
2. **Ringel-Kulka T**. Probiotics consumption by pregnant and lactating mothers. *Breastfeeding Exclusive*. <http://breastfeeding.sph.unc.edu/files/2013/10/BFE-Volume-4-Issue-1.pdf>. (Invited review).

ABSTRACTS

Published:

1. Ringel Y, Chou CJ, Bruce S, Henry H, Lauber CL, Betrisey B, Goun E, **Ringel-Kulka T**. Reduced Bacteria-derived Bile Salt Hydrolase Enzymatic Activity - A Possible Mechanism For Symptoms Severity In Patients With Irritable Bowel Syndrome. *Gastroenterol* 2019;Suppl 1 156(6):S-235.

2. Chou CJ, **Ringel-Kulka T**, Bruce S, Henry H, Lauber CL, Betrisey B, Ringel Y. Bacteria Modified Bile Acids - A Possible Mechanism For Symptoms Severity In Patients With Irritable Bowel Syndrome. *UEGJ*. 2018;6(8S):A14(OP031).
3. Zheng T, D'Amato M[^]. A multi-center GWAS of IBS in 3,255 patients from tertiary centers and 28,937 population controls: results from the bellygenes initiative. *Neurogastroenterology and Motility* 2018;30(1) e13422. DOI: 10.1111/nmo.13422. (^on behalf of a large multi-national group of investigators).
4. Bertelsen RJ, **Ringel-Kulka T**, Peddada KA, Real FG, Svanes C. Exposure to antibacterial chemicals and changes in oral microbiome are associated with lung function among women but not men. *American Journal of Respiratory and Critical Care Medicine*. 2017 195;A7595.
5. Belmont J, Heitkemper M, **Ringel-Kulka T**, Chumpitazi BP, Shulman RJ. Childhood and adult irritable bowel syndrome (IBS) is associated with polymorphisms in carbohydrate digestion/absorption-related (DAR) genes. *Gastroenterol*. 2017;152(5):S808.
6. Ringel Y, Palsson OS, **Ringel-Kulka T**, Whitehead WE. Visceral hypersensitivity is an important etiological factor in the presence and severity of abdominal bloating symptoms in patients with irritable bowel syndrome (IBS). *Gastroenterol*. 2015 148(4):Suppl 1 S-194. DOI: [http://dx.doi.org/10.1016/S0016-5085\(15\)30646-6](http://dx.doi.org/10.1016/S0016-5085(15)30646-6).
7. Ringel Y, Salojärvi J, **Ringel-Kulka T**, Carroll IM, De Vos WM. Associations of abdominal pain and visceral hypersensitivity with intestinal microbiota in patients with irritable bowel syndrome. *Gastroenterol*. 2015 148(4):Suppl 1 S-131-32. DOI: 10.1016/S0016-5085(15)30455-8.
8. Choi CH, **Ringel-Kulka T**, Tamas DJ, Kim A, Scott K, Ringel Y. Altered colonic bacterial fermentation is a steadfast pathophysiological factor in irritable bowel syndrome. *Gastroenterol*. 2014 146(5): Suppl 1 S-8. DOI: 10.1016/S0016-5085(14)60028-7.
9. *Hod K, **Ringel-Kulka T**, Van Tilburg MA, Ringel Y. Abdominal bloating in patients with irritable bowel syndrome: Characterization of clinical symptoms, psychological factors and associated comorbidities. *Gastroenterol*. 2014 146(5):Suppl 1 S-532. DOI: [http://dx.doi.org/10.1016/S0016-5085\(14\)61925-9](http://dx.doi.org/10.1016/S0016-5085(14)61925-9).
10. *Hod K, **Ringel-Kulka T**, Martin CF, Maharshak N, Ringel Y. High sensitive C - reactive protein as a marker for inflammation in irritable bowel syndrome. *Gastroenterol*. 2014 146(5):Suppl 1 S-531. DOI: [http://dx.doi.org/10.1016/S0016-5085\(14\)61924-7](http://dx.doi.org/10.1016/S0016-5085(14)61924-7).
11. Maharshak N, Carroll IM, **Ringel-Kulka T**, Wolber EA, Sartor RB, Ringel Y. High throughput sequencing of the intestinal mucosa versus luminal microbiota in humans. *Gastroenterol*. 2014 146(5):Suppl 1 S-837. DOI: [http://dx.doi.org/10.1016/S0016-5085\(14\)63041-9](http://dx.doi.org/10.1016/S0016-5085(14)63041-9).
12. **Ringel-Kulka T**, Keku T, Jia W, Tamas D, McCoy A, Qiu Y, Xie G, Ringel Y. Fecal metabolomic profile in patients with food hypersensitivity and health controls. *J Parenter Enteral Nutr*. 2014 38(1):137 (Abstract of Distinction). DOI: 10.1177/0148607113516083.
13. Tamas D, **Ringel-Kulka T**, Palsson OS, Maier D, Scott K, Ringel Y. The role of intestinal transit and fermentation in the pathogenesis of abdominal bloating in patients with irritable bowel syndrome. *J Neurogastroenterol Motil*. 2013;25:SI22-22.

14. **Ringel-Kulka T**, Thurlow K, van Tilburg M, Palsson O, Ramsden C, Ringel Y. Food-specific IgG4 antibody titers in subjects with food hypersensitivity. *Gastroenterol.* 2013 144(5):S-928.
15. Ringel Y, Benson AK, Carroll IM, Kim J, Legge R, **Ringel-Kulka T**. Molecular characterization of the intestinal microbiota focusing on subgroups of patients with irritable bowel syndrome. *Gastroenterology* 2013 144(5):S-926.
16. Ringel Y, Benson AK, Carroll IM, Kim J, Legge R, **Ringel-Kulka T**. Molecular characterization of the intestinal microbiota in patients with and without abdominal bloating. *Gastroenterol.* 2013 144(5):S-87-88.
17. Thurlow K, van Tilburg M, Palsson O, Ramsden C, Ringel Y, **Ringel-Kulka T**. The role of psychological factors in the clinical manifestation of eating associated symptoms. *Psychosom Med.* 2013 75:01.
18. Thurlow K, **Ringel-Kulka T**, van Tilburg M, Palsson O, Ringel Y. The role of psychological factors in the clinical manifestations of food hypersensitivity. *Am J Gastroenterol.* 2012 107:S695-S718.
19. **Ringel-Kulka T**, Scott K, Siddle JP, Maier DM, Galanko JA, Ringel Y. Short chain fatty acids and intestinal transit in patients with irritable bowel syndrome and healthy controls. *Gastroenterol.* 2012 142(5):S177.
20. **Ringel-Kulka T**, Thurlow K, Siddle JP, Palsson OS, Ringel Y. Over and under reporting of abdominal pain and quality-of-life in patient and non-patients with functional bowel symptoms. *Gastroenterol.* 2012 142(5):S822.
21. Carroll IM, **Ringel-Kulka T**, Bueno L, Ferrier L, Wu M, Siddle JP, Ringel Y. Fecal serine protease activity in patients with IBS is associated with specific alterations in the intestinal microbiota. *Gastroenterol.* 2012 142(5):S98.
22. Ringel Y, **Ringel-Kulka T**, Ferrier L, Siddle JP, Palsson OS, Bueno L. Fecal cysteine protease activity in patients with irritable bowel syndrome – clinical and physiological aspects. *Gastroenterol.* 2012 142(5):S833.
23. Ferrier L, Annahazi A, Bezirard V, Leveque M, Eutamene H, Roka R, Inczeffi O, Gecse K, Rosztoczy A, Molnar T, Ringel Y, **Ringel-Kulka T**, Piche T, Wittmann T, Theodorou V, Bueno L. Abdominal pain and fecal cysteine-protease levels in constipation-predominant irritable bowel syndrome: a multicenter analysis. *Gastroenterol.* 2012 142(5):S826-7.
24. Annahazi A, Bézirard V, Ferrier L, Levêque M, Eutamene H, Roka R, Inczeffi O, Gecse K, Rosztoczy A, Molnar T, Ringel Y, **Ringel-Kulka T**, Piche T, Theodorou V, Wittmann T, Bueno L. Corrélation entre le score de douleur viscérale et le niveau de cystéine-protéase fécaledans le SII à prédominance constipation (SII-C). *Gastroenterol Clin Biol.* 2012.
25. Ringel Y, **Ringel-Kulka T**, McKean L, Ramsey D, Gibb R, McRorie J. Probiotic *Bifidobacterium longum* subsp. *infantis* 35624 in a non-patient population with a history of abdominal discomfort and bloating. *Am J Gastroenterol.* 2011 106:S503.
26. Siddle J, **Ringel-Kulka T**, Ringel Y. Over and under reporting of abdominal pain in subjects with functional bowel symptoms. *Am J Gastroenterol.* 2011 106:S514.
27. Ringel Y, Goldsmith JR, Carroll IM, Siddle JP, Jobin C, Barros SP, **Ringel-Kulka T**. The probiotic bacteria *Lactobacillus acidophilus* NCFM® (L-NCFM) and *Bifidobacterium lactis*

- Bi-07 (B-LBi07) increase expression of intestinal Opioid Receptors - first evidence in humans. *Gastroenterol.* 2011 140(5):S847.
28. Carroll IM, **Ringel-Kulka T**, Keku TO, Chang YH, Packeyl CD, Neil1 S, Williamson D, Sartor RB, Ringel Y. Molecular characterization of the fecal and colonic mucosal-associated microbiota in diarrhea-predominant irritable bowel syndrome patients. *Gastroenterol.* 2011 140(5):S373.
 29. **Ringel-Kulka T**, Siddle J, Maier D, Galanko J, Semler JR, Ringel Y. Intestinal fermentation assessed by intraluminal pH in subjects with abdominal bloating. *Gastroenterol.* 2011 140(5):S709.
 30. **Ringel-Kulka T**, Maier DM, Palsson OS, Ringel Y. Characterization and comparison of patients versus non-patients with functional bowel symptoms in the general population. *Gastroenterology.* 2010 138(5):S384.
 31. **Ringel-Kulka T**, Maier DM, DeMaria N, Galanko J, Jackson J, Fedor-Hammonds L, Ringel Y. Alterations in intestinal transit in subgroups of patients with functional bowel disorders and health controls – a wireless motility capsule study. *Gastroenterol.* 2010 138(5) Suppl 1:S626.
 32. Ringel Y, Gelfond D, Galanko A, Maier D, O’Hara T, Semler JR, Borowitz D, **Ringel-Kulka T**. Alterations in intestinal transit in subgroups of patients with functional bowel disorders and healthy controls - a wireless motility capsule study. *Am J Gastroenterol.* 2010 105:S498.
 33. Carroll I, Keku T, **Ringel-Kulka T**, Sartor RB, Ringel Y. Molecular characterization of the fecal and mucosal-associated intestinal microbiota in patients with diarrhea-predominant IBS and health subjects. *Gastroenterol.* 2010 138(5) Suppl 1:S624.
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 35. **Ringel-Kulka T**, Kotch J, McBee M, Savage E, Weber, D. Yogurt containing probiotic Bifidobacterium lactis Bb12 and inulin significantly reduces days of fever and improves quality of life in children attending child care centers. *J Pediatr Gastroenterol Nutr.* 2009 49 Suppl 1:E41-E42.
 36. **Ringel-Kulka T**, Palsson OS, Galenko J, Maier DM, Ringer Y. Clinical and physiological effects of yogurt drink containing the probiotic bacteria Bifidobacterium lactis Bb12 and prebiotic inulin in subjects with functional bowel symptoms. *Gastroenterol.* 2009 136(5) Suppl 1:A166.
 37. *Bobzien B, **Ringel-Kulka T**, Covington M, Palsson OS, Ringel Y. Long term gastrointestinal symptoms following acute enteric viral infections. *Neurogastroenterol Motil.* 2008 20 Suppl 2:137.
 38. **Ringel-Kulka T**, Palsson OS, Maier D, Ringel Y. Yogurt containing the probiotic bacteria Bifidobacterium lactis Bb12 and prebiotic inulin significantly improves colonic transit time in subjects with functional bowel symptoms. *Am J Gastroenterol.* 2008 Sep;103 Suppl 1:S1-553.
 39. **Ringel-Kulka T**, Palsson OS, Maier D, Ringel Y. The effect of daily consumption of probiotic bacteria Bifidobacterium lactis Bb12 and prebiotic inulin on colonic transit time

in subjects with functional bowel symptoms. *Neurogastroenterol Motil.* 2008;20 Suppl 2:94.

40. **Ringel-Kulka T**, *Dayton RL. Probiotic products in the pediatric population – available products vs clinical evidence. *Am J Gastroenterol.* 2008 103 Suppl 1:S1:553.
41. Ringel Y, Palsson OS, Leyer G, Causey S, Yeskel SE, Faber SM, **Ringel-Kulka T**. Probiotic bacteria *Lactobacillus acidophilus* NCFM and *Bifidobacterium lactis* Bi-07 improve symptoms of bloating in patients with functional bowel disorders (FBD). *Gastroenterol.* 2008 134(4) Suppl 1:A549.
42. *D'Aloisio AA, **Ringel-Kulka T**, Waller AE, West SL, Bordley WC. Use of an emergency department discharge database for drug-induced anaphylaxis surveillance among pediatric patients. *Pharmacoepidemiol Drug Saf.* 2005 14 Suppl 2:S200.
43. **Ringel-Kulka T**, Ford CA, Coyne-Beasley T, Adimora AA, Resnick MD. Forgone health care among North Carolina students. *J Adolesc Health.* 2002.

OTHER REFEREED ABSTRACTS

1. Bertelsen RJ, **Ringel-Kulka T**, Peddada KA, Real FG, Svanes C. Exposure to antibacterial chemicals and changes in oral microbiome are associated with lung function among women but not men. American Thoracic Society 2017 International Conference, Washington, DC. May 19-24, 2017.
2. Bertelsen RJ, **Ringel-Kulka T**, Roach J, Pérez A, Azcarate-Peril AM, Real FG, Svanes C. Bacterial load from saliva and gingival samples and associations with oral health. International Society for Environmental Epidemiology, Rome, Italy. September 1-4, 2016.
3. Cheng J, **Ringel-Kulka T**, Heikamp-de Jong I, Ringel Y, Carroll IM, de Vos WM, Salojärvi J, Satokari R. Discordant development of major intestinal bacterial phyla in young children. The New York Academy of Sciences, New York, NY. October 15, 2015.
4. **Ringel-Kulka T**, Cheng J, Ringel Y, Salojärvi J, Carroll IM, Palva A, de Vos WM, Satokari R. The intestinal microbiota in healthy USA children is not established until after toddlerhood – an opportunity for probiotics/prebiotics intervention. The New York Academy of Sciences. June 2013.
5. Cameron B, Labbok M, Scheckter R, Petersen A, **Ringel-Kulka T**, Kotch J. Ten steps for breastfeeding-friendly child care: A new tool for improving breastfeeding support in child care centers. Abstract and presentation, APHA Annual Meeting, Washington, DC. November 1, 2011.
6. Cameron B, Labbok M, Scheckter R, Petersen A, **Ringel-Kulka T**, Kotch J. Breastfeeding-friendly child care in Wake County: Operational research to improve breastfeeding support in child care centers. Abstract and presentation, APHA Annual Meeting, Washington, DC. November 2, 2011.
7. Carroll IM, **Ringel-Kulka T**, Keku TO, Chang YH, Sartor RB, **Ringel Y**. Mucosal-associated and luminal microbiota in patients with diarrhea-predominant irritable bowel syndrome. Presented at the Sackler Colloquium on ‘Microbes and Health’, National Academy of Sciences. November 2010.
8. Labbok M, Cameron B, Petersen A, Turay K, **Ringel-Kulka T**, Kotch J. Poster Abstract, 228421, Can childcare workers impact breastfeeding rates? An operational research study,

- 5019.0, Obesity prevention: breastfeeding and beyond, APHA Annual Meeting, Denver, CO. November 10, 2010.
9. **Ringel-Kulka T**, Palsson OS, Galanko J, Maier D, Ringel Y. Daily consumption of Bifidobacterium lactis - Bb-12, Streptococcus thermophilus, Lactobacillus bulgaricus and Inulin accelerate colonic transit and improve well being in subjects with functional bowel symptoms. Presented at the Sackler Colloquium on 'Microbes and Health', National Academy of Sciences, November 2010.
 10. **Ringel-Kulka T**, Kotch J, McBee M, Savage E, Weber, D. Daily synbiotic yogurt drink significantly reduces days of fever and improves quality of life in children attending child care centers. The Jerusalem International Conference on Integrative Medicine, Jerusalem, Israel. October 19, 2010.
 11. Labbok M, Taylor E, Colgan B, Nickel N, Cameron B, Pollet H, **Ringel-Kulka T**, Jensen E. Addressing disparities in breastfeeding through a comprehensive statewide approach. 15th Annual International Meeting of the Academy of Breastfeeding Medicine, San Francisco, CA. October 27-30, 2010.
 12. Jackson JP, Palsson O, Fedor-Hammonds L, Maier D, DeMaria NH, **Ringel-Kulka T**. Prevalence and characteristics of probiotic use in subjects with functional GI symptoms. The New York Academy of Science (NYAS) Probiotics: From bench to market, New York, NY. June 11, 2010.
 13. **Ringel-Kulka T**, McLaurin S, *Jensen E, Woods E, Kotch J, Labbok M, Baker S, *Dardess P. Community-based participatory research (CBPR) approach to understanding and addressing disparities in breastfeeding for African American Women: Focus group results. Association of Maternal and Child Health Programs (AMCHP), National Harbor, MD. March 8, 2010.
 14. **Ringel-Kulka T**, McLaurin S, *Jensen E, Woods E, Kotch J, Labbok M, Baker S, *Dardess P. Community-based participatory research (CBPR) approach to understanding and addressing disparities in breastfeeding for African American women: Key informant interview results. University of North Carolina Minority Health Conference, Chapel Hill, NC. February 26, 2010.
 15. **Ringel-Kulka T**, *Jensen E, McLaurin S, Woods E, Baker S. Breastfeeding Education and Support Team (BEST) Alliance. Forming an alliance to support breastfeeding among African Americans in Durham County, NC. NCR/APTR Conference Bridges Translational Medicine to Community Engagement, Bethesda, MD. May 14-15, 2009.

PRESENTATIONS AND LECTURES

ORAL PRESENTATION OF ORIGINAL RESEARCH (Peer reviewed presentations)

1. Reduced Bacteria-derived Bile Salt Hydrolase Enzymatic Activity - A Possible Mechanism For Symptoms Severity In Patients With Irritable Bowel Syndrome. Digestive Disease Week (DDW) Annual Meeting of the American Gastroenterology Association (AGA). San Diego, California. 21 May 2019.
2. Bacteria Modified Bile Acids - A Possible Mechanism For Symptoms Severity In Patients With Irritable Bowel Syndrome. 26th United European Gastroenterology (UEG) Week Annual Meeting. Vienna, Austria. 22 October 2018.

3. A multi-center GWAS of IBS in 3,255 patients from tertiary centers and 28,937 population controls: results from the bellygenes initiative. 3rd Meeting of the Federation of Neurogastroenterology and Motility (FNM). Amsterdam, The Netherlands. 29 Aug-1 september 2018 (on behalf of a large multi-national group of investigators).
4. Associations of clinical symptoms and bowel characteristics with intestinal microbiota in patients with irritable bowel syndrome. American College of Gastroenterology (ACG). Honolulu, HI. October 19, 2015.
5. Discordant development of major intestinal bacterial phyla in young children. The New York Academy of Sciences. Advances in Human Microbiome Science, New York, NY. October 15, 2015.
6. Associations of abdominal pain and visceral hypersensitivity with intestinal microbiota in patients with irritable bowel syndrome. Digestive Disease Week, Washington, DC. May 18, 2015.
7. Visceral hypersensitivity is an important etiological factor in the presence and severity of abdominal bloating symptoms in patients with irritable bowel syndrome (IBS). Digestive Disease Week, Washington, DC. May 19, 2015.
8. Altered colonic bacterial fermentation is a steadfast pathophysiological factor in irritable bowel syndrome. Digestive Disease Week, Chicago, IL. May 2-6, 2014.
9. Fecal metabolomic profile in patients with food hypersensitivity and health controls. ASPEN Clinical Nutrition Week, Savannah, GA. January 19-21, 2014.
10. Carolina child care ten steps: Creating breastfeeding-supportive child care. American Public Health Association, San Francisco, CA. October 31, 2012.
11. Short chain fatty acids and intestinal transit in patients with irritable bowel syndrome and healthy controls. Digestive Diseases Week, San Diego, CA. May 22, 2012.
12. Fecal serine protease activity in patients with IBS is associated with specific alterations in the intestinal microbiota. Digestive Diseases Week, San Diego, CA. May 20, 2012.
13. Probiotic *Bifidobacterium longum* subsp. *infantis* 35624 in a non-patient population with a history of abdominal discomfort and bloating. American College of Gastroenterology, National Harbor, MD. November 2, 2011.
14. The African American experience and breastfeeding disparities - A Community-Based Participatory Research (CBPR) project of the BEST for Babies Alliance. American Public Health Association annual meeting, Denver, CO. November 7, 2010.
15. Durham's BEST for Babies Alliance: Addressing breastfeeding disparities among African American women. Triangle Breastfeeding Association Conference, Raleigh, NC. May 2010.
16. Clinical and physiological effects of yogurt drink containing the probiotic bacteria *Bifidobacterium lactis* Bb12 and prebiotic inulin in subjects with functional bowel symptoms. American Gastroenterology Association (AGA) Annual meeting, Digestive Diseases Week, Chicago, IL. June 2009.
17. Creating a partnership to promote breastfeeding in the African American community. Statistics, Greensboro, NC. March 2009.

18. Use of an emergency department discharge database for drug-induced anaphylaxis surveillance among pediatric patients. International Society for Pharmaceutical Engineering (ISPE) (Oral presentation).
19. Forgone health care among North Carolina students. Society for Adolescent Medicine 2002 Annual Meeting, Boston, MA. March 2002. (Oral presentations/Poster Presentation).

INVITED PRESENTATIONS and PANELS

1. **Ringel-Kulka T.** Investigation of the Human Microbiome. BRuSH kick-off meeting and seminar. Bergen, Norway. 14 March 2019.
2. **Ringel-Kulka T.** Pre- and pro-biotics use for common GI symptoms in generally healthy children and adolescents. International Scientific Association for Probiotics and Prebiotics, (ISAPP). Turku, Finland. June 8, 2016.
3. **Ringel-Kulka T.** Gut microbiota in early life – a window of opportunity for interventions. The 10th Annual Meeting of the International Society of Nutrigenetics/Nutrigenomics (ISNN), Tel Aviv, Israel. May 24, 2016.
4. **Ringel-Kulka T.** Establishment of gut microbiota and changes over time. European Helicobacter and Microbiota Study Group (EHMSG) – EHMSG XXVIIIth International Workshop on Helicobacter & Microbiota in Inflammation & Cancer, Nicosia, Cyprus. September 26, 2015.
5. **Ringel-Kulka T.** Probiotics use in the pediatric population - Scientific evidence and clinical practice. Pediatric Grand Rounds lecture, Moses Cone Hospital, Greensboro, NC. December 5, 2012.
6. **Ringel-Kulka T.** Targeting the intestinal microbiota in the pediatric population - clinical perspectives. American Society for Parenteral and Enteral Nutrition (A.S.P.E.N), Clinical Nutrition Week (CNW 2011), Vancouver, Canada. January 31, 2011.
7. **Ringel-Kulka T.** Intestinal microbiota characterization and manipulation in children. International Scientific Association for Probiotics and Prebiotics (ISAPP) Annual Meeting, Barcelona, Spain. August 29-31, 2010.
8. **Ringel-Kulka T.** Intestinal microbiota and children's health - Update on research at UNC. International Scientific Association for Probiotics and Prebiotics (ISAPP) Annual Meeting, London, Canada. November 9-11, 2008.
9. **Ringel-Kulka T.** Intestinal microbiota and children's health. Sixth meeting of the International Scientific Association for Probiotics and Prebiotics, London, Ontario, Canada. November 9-11, 2008.
10. **Ringel-Kulka T.** Probiotic use for promoting health in children. Scientific review of probiotics in adults and children, Wyeth Consumer Health, Madison, NJ. August 26, 2008.

OTHER PRESENTATIONS

1. **Ringel-Kulka T.** Welcome. Building Bridges to Healthy Child Care Conference. The North Carolina Child Care Health Consultants Association 2018 Annual Conference. Friday Center. Chapel Hill. North Carolina. April 11, 2018.

2. **Ringel-Kulka T.** Building a Better Baby: Approaches to Studying Feeding During Early Life and Health Effects. Nutrition Spring 2018 Mini-Symposium Panel Discussion. UNC Chapel Hill, Chapel Hill, North Carolina. April 3, 2018.
3. **Ringel-Kulka T.** Welcome. Reaching for the Stars: Healthy Child Care to Infinity and beyond! The North Carolina Child Care Health Consultants Association 2018 Annual Conference. Friday Center. Chapel Hill. North Carolina. March 8, 2017.
4. **Ringel-Kulka T.** The intestinal microbiota in children. Salix Pharmaceuticals Medical Affairs Perceptorship, University of North Carolina at Chapel Hill, Chapel Hill, NC. June 14, 2012.
5. **Ringel-Kulka T.** The human intestinal microbiota. UNC-Salix Educational Seminar, Chapel Hill, NC. September 2010.
6. **Ringel-Kulka T.** The intestinal microbiota and public health and community participation research of breastfeeding disparities in African Americans. Lunch with the Dean, Chapel Hill, NC. September 14, 2009.
7. **Ringel-Kulka T.** The intestinal microbiota-possible target for intervention to promote children's health. Department of Maternal and Child Seminar, Gillings School of Global Public Health, Chapel Hill, NC. May 13, 2009.

TEACHING ACTIVITIES

COURSES TAUGHT in Maternal and Child Health (MCH)

Spring 2019	MCH 702 Foundations in MCH (teaching) (37 students)
Spring 2018	MCH 702 Foundations in MCH (teaching) (39 students)
Spring 2017	MCH 702 Foundations in MCH (teaching) (49 students)
Spring 2016	MCH 702 Foundations in MCH (teaching) (39 students)
Spring 2015	MCH 702 Foundations in MCH (teaching) (38 students)
Spring 2014	MCH 702 Foundations in MCH (teaching) (49 students)
Summer 2013	MCH 702 Foundations in MCH online (co teaching) (9 students)
Spring 2013	MCH 702 Foundations in MCH (co teaching) (46 students)
Fall 2012	MHCH 740-032 Doctoral Seminar (co teaching) (6 students)
Summer 2012	MCH 702 Foundations in MCH online (co teaching) (8 students)
Spring 2012	MHCH 802 Doctoral Seminar (7 Students)
Summer 2011	MCH 702 Foundations in MCH online (co teaching) (9 students)
Spring 2011	MHCH 802 Doctoral Seminar (5 students)
Spring 2010	MHCH 802 Doctoral Seminar Course (4 students)

LECTURES IN OTHER MCH COURSES

09/2016	MCH 801 Doctoral Seminar The Relevance of the Microbiota for Maternal and Child Health
11/2014	MCH 801 Doctoral Seminar Community Based Participatory Research

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03/2014	MCH 702 Foundations in MCH Well child care guidelines and services
11/2013	MCH 801 Doctoral Seminar The Intestinal Microbiota and Child Health
06/2013	MCH 702 Online (Summer) Well child care critical thinking
01/2013	MHCH 702 Foundations in MCH Well child care critical thinking
06/2012	MCH 702 Online (Summer) Well child care critical thinking
06/2011	MCH 702 Online (Summer) Well child care critical thinking
02/2011	MHCH 702 Foundations in MCH Well child care critical thinking
05/2010	MCH 702 Online (Summer) Well child care critical thinking
02/2010	MHCH 702 Foundations in MCH Well child care critical thinking
02/2009	MHCH 702 Foundations in MCH Well child care critical thinking

Doctoral Curriculum/Dissertation Committee

Provision of and barriers to reproductive health and family planning among women of reproductive age in opioid use disorder treatment in North Carolina. **Stacey Klaman**, (PhD 2019).

Early child care and weight outcomes among low-income African-Americans.

Sherika Hill, PhD (2010-2013, graduated May 2013).

Research Advisor of PhD Students (outside the department)

Jing Cheng, Faculty of Veterinary Medicine and Faculty of Medicine, University of Helsinki. PhD, Advisor on research as part of the PhD requirements, (Advisor: Reetta Satokari), 2014-2016.

Research Advisor and/or Reader for Master's Paper of MCH Students

Current Advisees:

1st year

Imani Lene Clark (MPH)

2021	Melissa Clepper-Faith, A Systematic Review of the Mediating or Moderating Effects of Mindfulness or Self-Compassion on the Relationship Between Adverse Childhood Experiences and Adult Health
2021	Madison Van Epps, Suggestions for the Future of Practice, Policy, and Research Regarding the Impact of Social Media Consumption on the Body-Related Esteem of Adolescent Girls in the United States

- 2021 Fatima Massaquoi, Attachment Outcomes in Young Children Adopted Internationally
- 2020 Kaitlyn Squanda, What are the characteristics of people who report Childhood Sexual abuse in the childhood and sexual trauma (CSA) survey?
- 2020 Narayan Chetry, Involvement of men in family planning in low- and middle income countries.
- 2020 Munguntsetseg Khuyag-Ochir, Maternal history of childhood maltreatment and breastfeeding outcomes: A review of recent literature.
- 2019 Michelle Matusinski, Maternal and Infant Feeding Practices and Subsequent Food Allergy Development in the Child: A Comprehensive Review of Recent Literature.
- 2019 Colleen Boyle, Association Between Knowledge of Access to Contraceptive Methods and Knowledge of STI prevention among University Students in Chachapoyas, Peru.
- 2018 Iman Saleh, Maternal Pre-Pregnancy Body Mass Index and Maternal Morbidity in the United States: New data from the Birth Certificate, 2015.
- 2018 Jenny Anand, Program Monitoring & Evaluation Plan for the University of North Carolina Hospital Emergency Department's Sexual Assault Nurse Examiner (SANE) Program.
- 2017 Jessica Beliveau. Cost-Effectiveness of Care Coordination Support on Burden of Caregiving for Families of Children with Special Health Care Needs.
- 2017 Caitlin Nelligan. Adolescents' presence in Brazil: A review of demographic, sexual and reproductive health trends to guide recommendations for the future.
- 2017 Rajneet Buttar. Intimate partner violence among South Asians in the United States: A critical review.
- 2016 Abigail Liberty. Breastfeeding initiation in North Carolina – the impact of the baby friendly hospital initiative.
- 2016 Wisnu Triaggono. Relationships between institutional delivery and neonatal mortality in Indonesia: A secondary data analysis of the 2012 Indonesia demographic and health survey.
- 2016 Natalie Bent. Conetoe Family Life Center "Change the children by education and opportunity = change for the family." Monitoring and Evaluation Plan.
- 2015 Leila del Santo. Is household decision-making power associated with use of modern contraceptive methods among Jordanian women.
- 2015 Phoebe Wescott. The impact of child maltreatment on juvenile delinquency.
- 2015 Kristina Warton. The impact of the patient-centered medical home model on maternal and child health outcomes in a community health center setting in North Carolina.
- 2014 Amy Korbe. Secondary migration to rural meat processing communities in the United States and the implications for refugee health.
- 2014 Rose Feinberg. Five-year trends in pediatric healthcare-associated infections: A review of data from an academic research hospital.
- 2012 Jui-Yen Huang. What are the predictors of life satisfaction among Asian American adolescents?
- 2012 Alison Starling. Knowledge, attitudes and practices relating to within the UNC-Chapel Hill campus.
- 2011 Kathryn Salisbury. Therapeutic management of pre-eclampsia and in Nigeria.
- 2010 Elizabeth Jensen. Participation in the supplemental nutrition program for women, infants and children (WIC) and breastfeeding: national, regional, and state level analyses.

- 2009 Laura Glish. Do online communities of practice contribute to closing the access to knowledge gap in public health in developing countries?
- 2009 Regina Rutledge. Adolescent pregnancy trends and the deficiencies of traditionally dichotomous measures of rurality.
- 2009 Pamela Dardess. Developing an intervention to increase breastfeeding among African Americans in Durham County, NC: Results from focus groups to determine community needs.
- 2008 Carey Serafin. Suicidal ideation among foreign born and US born adolescents living in the US.
- 2008 Shilpa Rajagopal. Can body mass index (BMI) detect whether a child is overfat?

Faculty Mentor for Competitive Student Fellowships and Award

- 2021: Imani Clark John and Sallie Shuping Russell award
- 2019: Munguntsetseg Khuyag-Ochir
The Katherine Ann Wildman Memorial Scholarship in Maternal and Child Health
- 2019: Kaitlyn Squanda The Earl and Gladys Siegal Student Support Fund in MCH
- 2019: Coleen Boyle Delta Omega Service Recognition
- 2018: Leila Dal Santo Delta Omega Alumni Inductee
- 2018: Jenny Anand The Melinda Kellner brock scholarship in MCH
- 2018: Jenny Anand Maternal and Child Interdisciplinary Leadership Fellow
- 2018: Bukola Adeoye-Oba The Edem Effiong Memorial Scholarship for Student Travel.
- 2017: Jessica Beliveau Jimmie Lee Rhyne Scholarship
- 2017: Jenny Anand Melinda Kellner Brock award
- 2016: Jing Cheng* Chinese Scholarship Council. The 2015 National Award for Outstanding Self-financed Chinese Student Study Abroad.
*PhD student at the University of Helsinki, Finland. A collaborative study (Finland mentor Reetta Satokari, UNC mentor Tamar Ringel-Kulka)
- 2016: Caitlin Nelligan SPH Graduate School Annual Fund Scholar Award
- 2016: Rajneet Buttar SPH Graduate School Annual Fund Scholar Award
- 2015: Wisnu Triaggono Impact in Practice Award
- 2014: Leila Dal Santo The Earl and Gladys Siegal Student Support Fund in MCH
- 2014: Rose Feinberg Dr. Jesse Satia Scholarship
- 2014: Amy Korbe Fred and Pearle McCall Scholarship
- 2013: Amy Korbe Jimmie Lee Rhyne Scholarship
- 2011: Alison Starling Maternal and Child Health Bureau Leadership Traineeship, Foreign Language Area Studies (FLAS)
- 2008: Carey Serafin UNC MCH Leadership Fellowship 2008
- 2008: Regina Rutledge Graduate Student Internship Program Award, UNC MCH Leadership Fellow
- 2011: Elizabeth Jensen Delta Omega, University Merit Award
- 2010: Elizabeth Jensen Reproductive, Perinatal Pediatric Epidemiology Training Grant; Graduate School Merit Award
- 2009: Elizabeth Jensen Carolina Breastfeeding Institute Scholarship;
- 2009: Elizabeth Jensen Delta Omega inductee;
- 2009: Elizabeth Jensen University Research Day presenter;
- 2009: Elizabeth Jensen UNC MCH Leadership Fellows;

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2009: Elizabeth Jensen MCH Student Fellow, APHA
2008: Robyn Dayton Maternal and Child Health Bureau Leadership Traineeship
2006: Brian Bobzian Effects of Enteric Viral Infections on Long Term GI and Non-GI Syndromes

Visiting scholar:

August 2013-July 2014. Ari Kim, OB&GYN from South Korea (resulted in one publication).

CONTRACTS AND GRANTS

Resubmitting:

Co-PIs Norway: Ingrid Vaksdal Brattabø & Karin Goplerud Berge
PI UNC: Tamar Ringel-Kulka
Title: Children At Risk and Oral Health
Agency: Research Council of Norway
(HELSEVEL; Application number ES643452)
Total funding: **\$2,279,000** (UNC subcontract \$103,000)
Role: PI (UNC-CH)

Pending:

July 2021-June 2022* **Principal Investigator: Tamar Ringel-Kulka**
(*Renew annually) Title: Promoting Healthy & Safe Environment for Young Children
Agency: NC Division of Child Development and Early Education (NC DCDEE)
Total funding: **\$1,160,374**
Role: PI

Ongoing (funded):

June 2021-May 2022* **Principal Investigator: Tamar Ringel-Kulka**
(*Renew annually) Title: NC Child Care Healthy & Safety Resource Center
Agency: DHHS, NC Division of Public Health
Total funding: **\$125,000**
Role: PI

Sept 2018-Aug 2021 **Principal Investigator: Tamar Ringel-Kulka**
Title: Enhancing Infant and Toddler Experiences Initiative. Implementation of Regional Child Care Health Consultant Services in Economically Distressed Counties.
Agency: NC Division of Child Development and Early Education (NC DCDEE)/ RFA # 002-DCDEE-2018
Total funding: **\$950,000**
(a three year project, state contract renewed annually **\$331,641**/this year)
Role: PI

July 2020-June 2021* **Principal Investigator: Tamar Ringel-Kulka**
(*Renew annually) Title: Promoting Healthy & Safe Environment for Young Children
Agency: NC Division of Child Development and Early Education (NC DCDEE)
Total funding: **\$752,347**
Role: PI

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Completed:

- June 2020-May 2021* **Principal Investigator: Tamar Ringel-Kulka**
(*Renew annually)
Title: NC Child Care Healthy & Safety Resource Center
Agency: DHHS, NC Division of Public Health
Total funding: **\$125,000**
Role: PI
- July 2019-June 2020* **Principal Investigator: Tamar Ringel-Kulka**
Title: Health & Safety Resource Center
Agency: NC Division of Child Development and Early Education (NC DCDEE)
Total funding: **\$539,678**
Role: PI
- June 2019-May 2020* **Principal Investigator: Tamar Ringel-Kulka**
Title: Healthy Child Care
Agency: DHHS, NC Division of Public Health
Total funding: **\$125,000**
(Ongoing NC State contract renewed yearly for years)
Role: PI
- Nov 2014-Dec 2020 **Principal Investigator: Tamar Ringel-Kulka**
Title: Biomarkers and Pathophysiological Mechanisms of Irritable Bowel Syndrome (IBS): NIHS-UNC Collaborative Discovery Research.
Agency: Nestle Institute of Health Sciences (NIHS)
Total funding: **\$388,274**
Role: PI
- Sept 2018-Sept 2019 PI Norway: Randi Bertelsen, **PI UNC: Tamar Ringel-Kulka**
Title: Oral Microbiome, Endotoxin and Lung Health; The 'United Airways' concept extended
Agency: Research Council of Norway
(BetterHealth; Application number ES592393, Project number 273838.)
Total funding: **\$1,800,000** (UNC subcontract \$47,120.40)
Role: PI (UNC-CH)
- July 2015-Aug 2019 PI Norway: Randi Bertelsen, **PI UNC: Tamar Ringel-Kulka**
Title: Exposure to Antibacterial Compounds: The Microbiome and Allergic Diseases.
Agency: Research Council of Norway - FRIMEDBIO
Total funding: **\$937,800** (UNC subcontract \$175,762)
Role: PI (UNC-CH)
- July 2018-June 2019 **Principal Investigator: Tamar Ringel-Kulka**
Title: Health & Safety Resource Center
Agency: NC Division of Child Development and Early Education (NC DCDEE)
Total funding: **\$496,231**
Role: PI
- June 2018-May 2019 **Principal Investigator: Tamar Ringel-Kulka**
Title: Healthy Child Care
Agency: DHHS, NC Division of Public Health

- Total funding: **\$125,000**
Dates of funding: 06/01/17-5/31/18
(Ongoing NC State contract renewed yearly for years)
Role: PI
- April 2015-Dec 2018 **Principal Investigator: Tamar Ringel-Kulka**
Title: Effects of Probiotic Bacteria Lactobacillus Acidophilus NCFM Alone and in Combination with Bifidobacterium Lactis -LBi07 on the Luminal and Mucosal Microbiota.
Agency: Danisco
Total funding: **\$66,852**
Role: PI
- July 2017-June 2018 **Principal Investigator: Tamar Ringel-Kulka**
Title: Health & Safety Resource Center
Agency: NC Division of Child Development and Early Education (NCDCDEE)
Total funding: **\$350,921**
(Ongoing NC State contract renewed yearly for years)
Role: PI
- June 2017-May 2018 **Principal Investigator: Tamar Ringel-Kulka**
Title: Healthy Child Care
Agency: **DHHS**, NC Division of Public Health
Total funding: **\$125,000**
(Ongoing NC State contract renewed yearly for years)
Role: PI
- March 2014-May 2018 **Principal Investigator: Tamar Ringel-Kulka**
Title: The Development and Validation of a Blood Test to Identify IBS: DEFINE (Diagnosis, Evaluation, of Functional and IBS Networks).
Agency: Prometheus Laboratories Inc.
Total funding: **\$141,561**
Role: PI
- Aug 2014-July 2017 PI Baylor: Robert Shulman, PI UNC: Tamar Ringel-Kulka
Title: Genetic Analysis of Carbohydrate Maldigestion in Irritable Bowel Syndrome.
Agency: NIH NIDDK R21
Total funding: **\$275,000** (UNC-CH \$37,576)
Role: PI (UNC-CH)
- July 2015-June 2017 **Principal Investigator: Tamar Ringel-Kulka**
Title: Promoting Healthy and Safe Environments for Young Children (Health and Safety Bulletins); ITS-SIDS, EPR and MA Train-the-trainer courses, TA for the early care and education community, and website.
Agency: NC Division of Child Development and Early Education (NCDCDEE)
Total funding: **\$205,690**
Role: PI
- June 2016-May2017 **Principal Investigator: Tamar Ringel-Kulka**
Title: Healthy Child Care
Agency: **DHHS**, NC Division of Public Health

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Total funding: **\$125,000**

Role: PI

Feb 2017-May 2017 **Principal Investigator: Tamar Ringel-Kulka**

Title: Overview Trainings

Agency: Child Care Services Association

Total funding: **\$3,127**

Role: PI

Nov 2012-Dec 2016

PI: Tamar Ringel-Kulka (Previous PI: Jonathan Kotch)

Title: Building Statewide Capacity and Effectiveness for Child Care Health Consultants

Agency: NC SmartStart

Total funding: **\$1,273,049**

Role: PI

May 2009-May 2014

Principal Investigator: Yehuda Ringel

Title: Physiological Effects of Yogurt Containing *Bifidobacterium lactis* (Bb12) in Subjects with Non-Diarrhea Functional Gastrointestinal Symptoms.

Agency: General Mills, Inc.

Total funding: **\$343,494**

Role: Co-PI

May 2010-May2013

Principal Investigator: Tamar Ringel-Kulka

Title: A Multicenter, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group Study to Evaluate the Benefits of a Probiotic (*Bifidobacterium infantis* 35624) in Healthy Subjects with a History of Abdominal Discomfort and Bloating.

Agency: Procter & Gamble

Total funding: **\$236,600**

Role: PI

Feb 2010-July 2012

Principal Investigator: Alison Stuebe

Title: Determining the Role of the Human Milk Microbiome in Breastfeeding Associated Pain.

Agency: NC Translational and Clinical Science Institute (NC TraCS)

Total funding: **\$10,000**

Role: Co-Investigator

Sept 2009-Sept 2010

Principal Investigator: Tamar Ringel-Kulka

Title: ARRA grant: Recovery Act-Administrative Supplement Grant. Community Participation Research of Breastfeeding Disparities in African American Women.

Agency: NIH NICHD (3R21HD057815-02S1)

Total funding: **\$39,832**

Role: PI

Apr 2009-July 2012

Principal Investigator: Yehuda Ringel

Title: Physiological Effects of Probiotic Bacteria Lactobacillus Acidophilus NCFM Alone Versus a Combination with Bifidobacterium Lactids -LBi07 in Patients with Mild to Moderate Abdominal Pain/Discomfort and Bloating.

Agency: Danisco Inc.

Total funding: **\$125,063**

Role: Co-PI

Ringel-Kulka, T

- Jan 2009-Dec 2011 Principal Investigator: Miriam Labbok
Title: Breastfeeding Support in Wake County with a Focus on Child Care: Decreasing Obesity, Increasing Health.
Agency: John Rex Endowment
Total funding: **\$315,783**
Role: Co-PI
- Apr 2008-March 2011 **Principal Investigator: Tamar Ringel-Kulka**
Title: Community Participatory Research of Breastfeeding Disparities in African American Women.
Agency: National Institute of Child Health & Human Development (NICHD) of NIH, R21
Total funding: **\$372,133**
Role: PI
- May 2008-Nov 2010 **Principal Investigator: Tamar Ringel-Kulka**
Title: The Role of Serine Srotease Activity in the Pathogenesis of Allergy in Children.
Agency: UNC-Chapel Hill University Research Council.
Total funding: **\$4,820**
Role: PI
- July 2007-Dec 2008 **Principal Investigator: Tamar Ringel-Kulka**
Title: The Relationship between Bacteroidetes and Firmicutes Bacterial Divisions and Changes in Body Mass Index in Children Aged One to Four.
Agency: Center for Excellence in Children's Nutrition (CECN) Small Research Grants Program, UNC Department of Nutrition
Total funding: **\$49,997**
Role: PI
- May 2006-Apr 2012 **Principal Investigator: Tamar Ringel-Kulka**
Title: The Effect of Daily Consumption of Yogurt Containing Bifidobacterium Lactis (BB-12) on Children's Health and Day Care Absenteeism.
Agency: General Mills Operations, Inc.
Total finding: **\$549,442**
Role: PI
- May 2006-May 2009 Principal Investigators: Yehuda Ringel
Title: Clinical and Physiological Effects of Yogurt Drink Containing Bifidobacterium Lactis (BB12) in Subjects with Functional Gastrointestinal Symptoms.
Agency: General Mills Operations, Inc.
Total funding: **\$385,684**
Role: PI

PROFESSIONAL SERVICE

Appointment to Scientific and Advisory Committees:

- 2020-present North Carolina Perinatal Oral Health Improvement Plan Committee
2018- Dec 2018 Masters' Program Committee- Develop directions and objectives for masters' program section
2017-present MCH Awards Committee
2014-present Testing in comprehensive MCH PhD exams
2010-present Testing in comprehensive MCH exams
2013-2018 Interview incoming MPH students

2016	Teaching review Catherine Sullivan MHCH 766 Clinical Support for Breastfeeding
2014	Review grant for Gillings Innovation Laboratories (GILs)
2010-2016	Research Council - UNC Gillings School of Global Public Health
2010-2016	Conflict of Interest Committee - UNC Gillings School of Global Public Health
2012-2013	Data Safety Monitoring Board (DSMB) to IND # 13691- Georgetown University
2009-2010	Data Safety Monitoring Board (DSMB) NCCAM funded RCT – The PHASE study: probiotics in healthy adults to determine safety and efficacy, conducted by Georgetown University
2008-2009	Data Safety Monitoring Board (DSMB) USDA funded RCT study to investigate the potential of probiotics in Yogurt II (SIPPY II): A randomized, placebo-controlled trial conducted by Georgetown University

Grant Reviewer Activities (national and international):

2016	Croatian Science Foundation (HRZZ) (equivalent to USA NIH) – Croatia
2015	Canadian Multiple Sclerosis Society – (microbiome and MS grant review)
2014-2015	Croatian Science Foundation (HRZZ) (equivalent to USA NIH) – Croatia
2013	NIH/NIHDM T37 Minority Health International Research Training
2012	NIH/NIHDM RO1 Special Emphasis Panel (SEP)
2012	NIH/NIHDM R24 Special Emphasis Panel (SEP)
2012	Health Research Board (HRB) (equivalent to USA NIH) – Ireland

Other Professional Activities

2016, 2015, 2012, 2011	International Scientific Association for Probiotics and Prebiotics (ISAPP) - per invitation only (Academic Expert) 22 nd International Conference on Pharmacoepidemiology & Therapeutic Risk, ICPE-Abstract Reviewer
2006	

Consultant for

2015, 2016	IM HealthScience LLC, Key Experts Pannel
2012	Schwabe North America, Research consult
2012	ReNew, Research consult
2009, 2010	Procter & Gamble, Research design and development
2009	Sigma-Tau Pharmaceuticals, Expert panel
2009	Ganeden Biotech, Expert panel

Reviewer (past & present)

2018	3Biotech
2017-2018	Journal of Racial and Ethnic Health Disparities
2017	Complementary Therapies in Medicine
2017	Journal of Pediatric Infectious Diseases
2017-2018	Nutrients
2017	Global Health Action
2016, 2017, 2018	PLoS ONE
2013, 2016, 2017	Maternal and Child Health Journal
2013-2016	Journal of Medicinal Foods

Ringel-Kulka, T

2016	Paediatrics and International Child Health
2016	Bioinformatics and Biology Insights
2016	World Journal of Pediatrics
2016	The Nutrition Journal
2015	BMC Pediatrics
2015	Progress in Community Health Partnerships: Research, Education, and Action
2014-15, 2017-18	Journal of Pediatric Gastroenterology and Nutrition (JPGN)
2014	Alimentary Pharmaceutical and Therapeutics
2014	American Journal of Gastroenterology
2014	Wiley Life Science Books (Wiley Blackwell Book Proposal Review)
2012	Nutrition in Clinical Practice
2012	BMC Microbiology
2012	Journal of Pediatrics
	World Journal of Gastroenterology
	Infant, Child, & Adolescent Nutrition

Editorial Board

2019-present	PLOS ONE, Academic Editor
2017-present	EC Paediatrics
2015-present	Gastroenterology Research and Practice

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