

## CURRICULUM VITAE

May 2016

VOLKER MAI, PhD, MPH  
Associate Professor  
Department of Epidemiology  
College of Public Health and Health Professions and College of Medicine  
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Citizenship(s): USA, Germany

### Education

<b>Master of Public Health (MPH)</b>	2000
Quantitative Methods, Harvard School of Public Health	
<b>Doctor of Philosophy (PhD)</b>	1999
Dept. of Microbiology, University of Georgia	
<b>Bachelor of Sciences</b>	1992
University of Georgia, Major: Biochemistry	
<b>Medical College (part time)</b>	1986 – 1990
Ernst Moritz Arndt Univ., Greifswald, Germany	
<b>High School Diploma</b>	1985
W. Pieck OS, Neubrandenburg, GDR (East Germany)	

### Professional Experience

<b>University of Florida, Gainesville, FL</b>	
<i>Associate Professor</i>	<b>2012-</b>
Department of Epidemiology, College of Public Health and Health Professions and College of Medicine	
<i>Associate Member</i>	<b>2007-</b>
Emerging Pathogens Institute, UF Health Cancer Center	
<i>Assistant Professor</i>	2007-2012
Department of Microbiology and Cell Biology, Institute of Food and Agricultural Sciences	
<b>Moffitt Cancer Center, Tampa, FL</b>	
<i>Affiliate Member</i>	<b>2010-</b>
Infectious Cancer Epidemiology group	
<b>University of Maryland, Baltimore, MD</b>	
<i>Assistant Professor</i>	2003-2007
Dept. of Epidemiology and Preventive Medicine, School of Medicine	
<b>National Cancer Institute, Rockville, MD</b>	
<i>Postdoctoral Cancer Prevention Fellow</i>	1999- 2002
Office of Preventive Oncology	
Nutritional Epidemiology Branch in the Division of Cancer Epidemiology and Genetics Laboratory of Nutrition and Molecular Carcinogenesis	

## University of Georgia, Athens, GA

<i>Graduate student</i>	1993-1999
<i>Teaching Assistant</i>	
Introductory Microbiology	1993-1996
Computational Skills in Microbiology	1997
Graduate Student Seminar	1998
TA-Mentor	1997-1998
CURO-TA (campus wide teaching network)	1998
<i>Research Assistant</i>	1994-1998
<i>Lab volunteer</i>	1993

### Professional Affiliations

American Society for Microbiology	1994-
American Association for the Advancement of Science	1994-
American Association for Cancer Research	2001-

### Professional and Academic Honors

UF PPHP Dean's Best Paper award, Dept. of Epidemiology	2013
UF PPHP Dean's Best Paper award, Dept. of Epidemiology	2012
AACR-AFLAC Scholar-in-Training Award	2002
NCI Prevention Fellowship Research Grant (10K)	2002
Intramural Research Award NCI (75K)	2001
Cancer Prevention Fellowship Award (5 years)	1999
Outstanding Graduate Teaching Award	1997
American Society for Microbiology Travel Grant	1997
Division O ASM Travel Award	1995
Graduate Teaching Supplement	1994
Graduated BS degree Magna Cum Laude	1992
Elected Phi Beta Kappa	1992

**Languages (in addition to English) German:** native speaker **Russian:** SK II cert.

### Teaching activities

UF Grant writing	(course manager)	2013-
UF Cancer Epidemiology	(course manager)	2013-
UF Bacterial and viral pathogens	(course manager)	2009-2011
UF Journal Club (Co-course manager)		2008-2012
UMD Molecular Biology in Public Health Sciences	(course manager)	2006-2007
UMD Molecular Epidemiology	(Co-course manager)	2005-2007
UMD Cancer Epidemiology	(course manager)	2004 -2006
UGA Introductory Microbiology		1993-1996
UGA Introductory Microbiology Laboratory		1993-1996
UGA Computational Skills in Microbiology		1997
UGA Graduate Microbiology Student Seminar		1998

*Supervision/Mentoring of students (graduate/postdoctoral)*

Xiaoyu Wang	UF Postdoc
Maria Ukhanova	UF Postdoc
Chris Young	UF MD/resident fellow
Cara Frankenfeld	NCI/ (postdoc)
Sheldon Waugh	UF PhD student (thesis supervisor)
Tyler Culpepper	UF PhD student (thesis supervisor 2013)
Jin Yao	UF PhD student (thesis co-supervisor 2014)
Sheldon Waugh	UF PhD student (thesis supervisor)
Yaser Alsaifi	UF PhD student (thesis co-supervisor)
Alexander Gutalj	UF MS student (thesis supervisor 2013)
Mengxiong Wang	UF MPH (project mentor)
Nina Isakowich	UMD MD/PhD student (UMB)
Jonathan Nelson	UMD MD/PhD student (UMB)
Ying-ying Yu	UMD PhD student (UMB Epidemiology)
Lisa Gardner	UMD PhD student (UMB Epidemiology)
Brian Peters	UMD PhD student (UMB Microbiology)
Steven Techtman	UMD PhD student (UMB Life Sciences)
Quintece McCrary	UMD PhD student (UMES/Food Sciences)
Amanda Dice	UMD AAI J.H.W. Fellowship

**Journal Reviewer**

Journal of Probiotics and Health (editor)	2013-
Nature Pediatrics	2015-
Microbiome	2012-
American Journal of Gastroenterology	2010-
Applied and Environmental Microbiology	2004-
Cancer Epidemiology, Biomarkers & Prevention	2003-
Emerging Infectious Diseases	2003-
Diversity Research	2007-
Gut	2009-
International Journal of Cancer	2004-
Journal of Clinical Microbiology	2007-
Microbial Ecology	2007-
Mutation Research	2005-

**Grant reviewer (ad hoc)**

American Cancer Society IRG	2005-2007
Environmental Protection Agency	2007-2008
National Science Foundation	2010/2011
NIH, special emphasis panel "Microbial metabolites and cancer"	2010-
National Cancer Institute, Division for Cancer Epidemiology and Genetics, Intramural program review panel member	2015
NIH Nutrition and Metabolic Processes (INMP) Study Section	2015

### **Industrial Consultantships**

Intralix Inc.(Baltimore, MD) , Matsutani Inc.(Japan), Genomic Nanosystems (Rockville, MD), Micropharma (Montreal Canada).

### **Professional Service**

UF Faculty Senate member, elected		2014-
UF PPHP Faculty Council, elected		2014-
UF SOM Faculty Council, elected		2013-2014
Faculty Search Committee chair	Department of Epidemiology	2013-
Admissions Committee	Department of Epidemiology	2013-
Graduate Committee	Department of Epidemiology	2012-

### **Research Support**

#### Ongoing

NCI R21 (PI)	01/01/16-12/31/17	3.0CM
Big data approaches to link diet, microbiota and colorectal cancer Scored 7 <sup>th</sup> percentile July 2015 awaiting council review		
USDA NIFA AWARD 2015-68003-22971 (Jeon, KC PI)	01/01/15-12/31/17	1.0CM
Understanding antibiotic resistance occurrence and development of mitigation technologies in cattle <b>Role: Co-PI</b> responsible for microbiota analysis		
NIH RO1 (Karst, S PI)	04/01/15-03/31/20	0.6CM
Role of Intestinal Bacteria in Human Norovirus Infection <b>Role: Co-Investigator</b> responsible for microbiota analysis		
Bill and Melinda Gates Foundation	01/01/15-12/31/16	0.6CM
Microbiota development and NEC in preterm infants, Brazil <b>Role: PI</b> , responsible for microbiota analysis		
SunMaid America	07/31/15-06/30/16	0.6CM
Effects of adding raisins to American diet on gut microbiota composition and activities <b>Role: PI</b>		
Matsutani/ADM (PI L-Henken, <b>Mai</b> )	04/30/16-04/30/17	0.6CM
Resistant maltodextrin supplementation and the effect on fecal bifidobacteria, bowel function and dietary intake <b>Role: PI</b> (subaward)		
Illumina Mini Challenge (Prosperi, Cottler, <b>Mai</b> )	04/30/2016	
Monitoring emerging infectious disease using high throughput sequencing Role: Co-PI (responsible for sequencing)		
FACCA (Yaghjian/Egan)	08/1/2015 – 07/31/2016	
Florida Academic Cancer Center Alliance (FACCA) Gut microflora and estrogens: a new paradigm for breast cancer reduction?		

The long-term objective of this project is to contribute to our understanding of the intestinal microbiome as a determinant of plasma estrogen levels and in turn breast cancer risk  
Role: Co-I

UF Opportunity Funding (Huigens, **Mai**, Shouguang) 01/09/14-05/31/16  
Novel bromophenazine compounds to treat biofilm infections  
**Role: Multiple-PI**, responsible for microbiota analysis and animal model development

Completed

NSF ABI Development (Sun, **Mai**) 06/01/11-05/31/16  
Advanced computational algorithms for deep interrogation of microbial communities  
**Role: Dual PI** responsible for applications of bioinformatics tools

NIH 1 R01 HD059143-01. (Neu) 12/17/08-11/30/13  
Microbiota in Preterm Infants and NEC  
**Role: Co-PI** responsible for microbiota analysis

DoD AMSRD STTR phase II 06/01/11-05/31/14  
Bacteriophage-based probiotic preparation for managing Shigella infections  
**Role: PI** academic partner, with Intralytix, Inc. as industry partner

California Almond Board (**Mai, MPI**) 09/01/13-12/31/15  
Effects of almond consumption on immune function and gut microbiota composition  
**Role: Multiple-PI**, responsible for microbiota analysis

Wakunaga of America Co., Ltd.(PI L-Henken) 11/30/13 - 12/31/15  
Probiotics and allergies  
**Role: PI** (subaward)

Schwabe NA (**Mai, PI**) 02/01/14 – 12/31/15  
Clinical trial of LAB pearl viability and microbiota composition  
**Role: PI**

American Pulse Association (**Mai, PI**) 01/15/15-12/31/15  
Effects of adding chick pea to American diet on gut microbiota  
**Role: PI**

MRS GT CCE-107301 (**PI Mai**) 07/01/04 – 12/31/10  
American Cancer Society (mentored career award)  
Diet, Microflora and Colorectal Carcinogenesis in African Americans

DoD AMSRD STTR phase I 01/01/10-12/31/10  
Bacteriophage-based probiotic preparation for managing Shigella infections  
**Role: PI** academic partner, with Intralytix, Inc. as industry partner

NIH SBIR phase I 05/01/08 -04/30/09  
Effects of bacteriophage administration against Listeria monocytogenes  
**Role: PI** academic partner

Bill and Melinda Gates Foundation (PI Stine) 01/01/11-12/31/13  
Metagenomic based discoveries of new viral and eukaryotic pathogens

**Role: Co-PI** on UFL subcontract for EM based viral detection

General Mills (Langkamp-Henken) 09/01/09 – 12/31/12  
Immune modulation by adding fiber to the diet

**Role: Co-PI**

Wakunaga of America Co., Ltd.(PI L-Henken) 03/01/12 - 11/07/13  
Probiotics on immune and intestinal health in healthy older adults

**Role: PI** (subaward)

Lallemand (Dahl) 02/01/2012-12/31/13  
Evaluations of B.subtilis on GI survival

**Role: PI** (subaward)

GTC (Langkamp-Henken) 01/01/10 – 12/31/12  
Effects of galacto-oligosaccharides on immune function

**Role: Co-PI**

Bill and Melinda Gates foundation 10/30/07-12/31/10  
New technologies for detection of diarrhea pathogens in developing countries

**Role: Co-PI** subcontract

CDC contract Hirshon (PI) 10/01/04 – 09/30/07  
Diarrhea in Baltimore: Surveillance & Pathogen Detection

**Role: Co-PI**

### Pending

NIH R21 (**PI**) resubmission Fall 2015  
Molecular epidemiology of a novel *Klebsiella* strain associated with NEC

Bill and Melinda gates foundation (**PI**) submitted May 2015  
Bacteriophage to prevent proteobacteria blooms in infants

NCI R21 (**PI**) submitted June 2015  
Microbiota as a modifier of GI side effects during chemotherapy

NIH RO1 (**M-PI**, Yaghjian, **Mai**) submitted June 2015  
Effects of diet and microbiota on menarche markers

NIH R21 (**Co-PI**) submitted June 2015  
Novel bromophenazine compounds to treat biofilm infections

### Publications

Original Research:

1. M.Engle, Y.Li, F.Rainey, S.DeBlois, **V.Mai**, A.Reichert, F.Mayer, P.Messner, and J.Wiegel.  
*Thermobrachium celere* gen. nov. sp. nov., a rapidly growing thermophilic, alkalitolerant, and

- proteolytic obligate anaerobe. *International Journal of Systematic Bacteriology*. 1996; **46**:1025-1033
2. **V.Mai**, W.Lorenz and J.Wiegel. Transformation of *Thermoanaerobacterium* JW/SL-YS485 with plasmid pIKM1 conferring kanamycin resistance. *FEMS Microbiology Letters*. 1997; **148**:163-167
  3. **V.Mai**, W.Lorenz, J.Wiegel Advances in the development of a genetic system for *Thermoanaerobacterium*: Expression of genes encoding hydrolytic enzymes, development of a second shuttle vector, and integration of genes into the chromosome. *Applied and Environmental Microbiology* 2000;**66**:4817-4821
  4. **V.Mai**, J.Wiegel, W.Lorenz . Cloning and expression of a novel bifunctional xylosidase/arabinosidase from *Thermoanaerobacter ethanolicus* JW200. *Gene*. 2000; **247**:137-143
  5. **V. Mai**, A. Flood, U. Peters, J. V. Lacey Jr., C. Schairer, and A. Schatzkin. Dietary fiber and risk of colorectal cancer in the Breast Cancer Detection Demonstration Project (BCDDP) Follow-up cohort. *Cancer Causes and Control. International Journal of Epidemiology*. 2003; **32**:234-239
  6. **V. Mai**, L. Colbert, D. Berrigan, J. Lavigne, S. N. Perkins, R. Pfeiffer, E. Lanza, D.C. Haines, A. Schatzkin, S. D. Hursting. Calorie restriction and Diet Composition Modulate Spontaneous Intestinal Tumorigenesis in *Apc<sup>Min</sup>* Mice Through Different Mechanisms. *Cancer Research*. 2003; **63**:1752-1755
  7. L. Colbert, **V.Mai**, S. Perkins, D. Berrigan, J. Lavigne, H. Wimbrow, P.Srinivas, S. Hursting Exercise and intestinal polyp development in APC<sup>Min</sup> mice. *Medical Science Sport and Exercise*. 2003;**35**:1662-1669
  8. **V. Mai**, H.A. Katki, H. Harmsen, D. Gallaher, A. Schatzkin, D. J. Baer, B. Clevidence. Effects of a controlled diet and black tea drinking on the fecal microflora composition and the fecal bile acid profile of human volunteers in a double-blinded randomized feeding study. *Journal of Nutrition*. 2004;**134**:473-478
  9. **V. Mai**, J.G. Morris. Colonic Bacterial Flora: Changing Understandings in the Molecular Age. *Journal of Nutrition*. 2004;**134**:459-464
  10. **V. Mai**. Dietary Modification of Intestinal Microbiota. *Nutrition Reviews*. 2004;**62**: 235-242
  11. **V. Mai**, A. K. Kant, A. Flood, J.V. Lacey Jr., C. Schairer, and A. Schatzkin. Diet quality and subsequent cancer incidence and mortality in a prospective cohort of women. *International Journal of Epidemiology*. 2005;**34**:54-60
  12. J. Nataro, **V. Mai**, J. Johnson, W.C. Blackwelder, R. Heimer, S. Tirrell, S.E. Edberg, C.R. Braden, J.G. Morris Jr., J.M. Hirshon. Diarrheagenic *E. coli* in Baltimore and New Haven. *Clinical Infectious Diseases* 2006; **43**(4):402-7
  13. H. Trachtman, E. Christen, A. Cnaan, J. Patrick, **V. Mai**, J. Mishra, A. Jain, N. Bullington, P. Devarajan. Urinary neutrophil gelatinase-associated lipocalin in D+HUS: a novel marker of renal injury. *Pediatric Nephrology* 2006;**21**(7):989-94
  14. L. H. Colbert, **V. Mai**, J. A. Tooze, S. N. Perkins, David Berrigan, S.D. Hursting. Voluntary Wheel Running Inhibits Polyp Development in APC<sup>min</sup> Mice. *Carcinogenesis* 2006;**27**(10):2103-7
  15. N.A. Cornick, A.F. Helgerson, **V. Mai**, V. Sharma, J.M. Ritchie and D.W.K. Acheson. In vivo transduction of stx-encoding phage in ruminants. *Applied and Environmental Microbiology* 2006;**72**:5086-5088
  16. **V. Mai**, B. Greenwald, J. G. Morris, Jr., JP Raufman, O. C. Stine. Effect of bowel preparation and colonoscopy on post-procedure intestinal microbiota composition. *Gut* 2006;**55**(12):1822-3

17. **V. Mai**, C.R. Braden, J.Heckendorf, B. Pironis, J.M.Hirshon. Monitoring of stool microbiota in subjects with diarrhea indicates distortions in its composition. *Clin. Microbiol.* 2006;**44**(12):4550-2
18. J.C. Lunn, G. Kuhnle, **V. Mai**, C. Frankenfeld, D.E. Shuker, R.C. Glen, J.M. Goodman, J.R. Pollock, S.A.Bingham. The effect of haem in red and processed meat on the endogenous formation of N-nitroso compounds in the upper gastrointestinal tract. *Carcinogenesis.* 2007;**28**:685-690
19. **V. Mai**, L. H. Colbert, S. N. Perkins, A. Schatzkin, S.D. Hursting. Intestinal Microbiota: A Potential Diet-Responsive Prevention Target in ApcMin mice. *Molecular Carcinogenesis.* 2007; **46**(1):42-8
20. A. Flood, **V. Mai**, R. Pfeiffer, L. Kahle, A. T. Remaley, E. Lanza, A. Schatzkin. Elevated serum concentrations of insulin and glucose increase risk of recurrent of colorectal adenomas. *Gastroenterology* 2007;**133**(5)1423-9
21. A. Flood, **V. Mai**, R. Pfeiffer, L. Kahle, A. T. Remaley, C. J. Rosen, E. Lanza, A. Schatzkin. The Effectsof a High-Fruit and Vegetable, High-Fiber, Low-Fat Dietary Intervention on Serum Concentrations of Insulin, Glucose, IGF-I, and IGFBP-3. *European Journal Clin. Nutr.* 2008; **62**(2):186-
22. A. Flood,**V. Mai**, R. Pfeiffer, L. Kahle, C.J. Rosen, E. Lanza, A. Schatzkin. Serum concentrations of insulin-like growth factor and insulin-like growth factor binding protein 3 and recurrent colorectal adenomas. *Cancer Epidemiol Biomarkers Prev.* 2008; **17**(6):1493-8.
23. Mshvildadze, M., J. Neu, and **V. Mai**. Intestinal microbiota development in the premature neonate: establishment of a lasting commensal relationship? *Nutr Rev.* 2008; **66**:658-663.
24. Neu, J., M. Mshvildadze, and **V. Mai**. A roadmap for understanding and preventing necrotizing enterocolitis. *Curr Gastroenterol Rep.* 2008;**10**:450-457.
25. **V.Mai** and P. V. Draganov. Recent advances and remaining gaps in our knowledge of associations between gut microbiota and human health. *World J Gastroenterol* 2009 **15**:81-85.
26. Young, C., R. Sharma, M. Handfield, **V. Mai**, and J. Neu. Biomarkers for Infants at Risk for Necrotizing Enterocolitis: Clues to Prevention? *Pediatr Res.* 2009;**65**:91R-97R
27. Roesch, L. F., G. L. Lorca, G. Casella, A. Giongo, A. Naranjo, A. M. Pionzio, N. Li, **V. Mai**, C. H. Wasserfall, D. Schatz, M. A. Atkinson, J. Neu, and E. W. Triplett. Culture-independent identification of gut bacteria correlated with the onset of diabetes in a rat model. *ISME J* 2009; **3**:536-48.
28. **V.Mai**, Q.M. McCrary,R. Sinha and M.Glei. Associations between dietary habits and body mass index with gut microbiota composition and fecal water genotoxicity: an observational study in African American and Caucasian American volunteers. *Nutr. J.* 2009;**8**:49
29. Mshvildadze, M., J. Neu, J. Schuster, D. Theraque, N. Li and **V. Mai**. Intestinal Microbial Ecology in Premature Infants Assessed with Non-Culture-Based Techniques. *J. Pediatr.* 2010;**156**:20-25
30. **V. Mai**, M. Ukhanova, L.Visone, T. Abuladze,and A. Sulakvelidze. Bacteriophage Administration Reduces the Concentration of *Listeria monocytogenes* in the Gastrointestinal Tract and ItsTranslocation to Spleen and Liver in Experimentally Infected Mice. *Intern. J. Microbiol.* 2010; doi:10.1155/2010/624234



31. **V. Mai**, M. Ukhanova, D. Baer. Understanding the Extent and Sources of Variation in Gut Microbiota Studies; a Prerequisite for Establishing Associations with Disease. *Diversity* 2010, 2(8), 1085-1096; doi:10.3390/d2091085
32. Y. Sun, Cai, Y., **V. Mai**, Farmerie, W., Yu, F., Li, J., Goodison, S. Advanced computational algorithms for microbial community analysis using massive 16S rRNA sequence data. *Nucleic Acids Research*. 2010. 38 (22): e205.
33. C. Hughes, Davoodi-Semiromi, Y., Colee, JC, Culpepper, T., Dahl, W., **V. Mai**, Christman, MC. and Langkamp-Henken, B. Galactooligosaccharide supplementation reduces stress-induced gastrointestinal dysfunction and days of cold or flu: a randomized, double-blind, controlled trial in healthy university students. *AJCN*. 2011. 93(6):1305-11. doi: 10.3945
34. J.M. Hirshon, Thompson, AD., Limbago, B., McDonald, LC., Bonkosky, M., Heimer, R., Meek, J., **V. Mai**, V., C. Braden, Outpatient *C. difficile* Infection in Baltimore, MD and New Haven, CN. *Emerging Infectious Diseases*. 2011. 17:1946
35. **V. Mai**, Young CM., Ukhanova, M., Wang, X., Sun, Y., Casella, G., Theriaque, D., Li, N., Sharma, R., Hudak, M., J. Neu. Fecal Microbiota in Premature Infants Prior to Necrotizing Enterocolitis. *PLoS ONE* 2011 6(6) e20647. doi:10.1371
36. Y. Sun, Cai, Y., Wang, X. Farmerie, W., Knight, R., **V. Mai**. A Large-scale Benchmark Study of Existing Algorithms for Taxonomy-Independent Microbial Community Analysis. *Briefings in Bioinformatics*. 2012. 13:107 PM:21525143
37. M. Ukhanova, M. Culpepper, T., Baer, D., Gordon, D., Kanahori, S., Valentine, J., Neu, J., Sun, Y. Wang, X. and **V. Mai**. Gut microbiota correlates with energy gain from dietary fibre and appears to be associated with acute and chronic intestinal diseases. *Clin. Microbiol. and Infection*. 2012; 18S: 62-66
38. X. Wang, X., Cai, Y., Sun, Y., Knight, R. and **V. Mai**. Secondary structure information does not improve OTU assignment for partial 16S rRNA sequences. *ISME*. 2012. 6, 1277–1280; doi:10.1038/ismej.2011.187
39. B. Langkamp-Henken, C. Nieves, Jr., T. Culpepper #, A. Radford, S. Girard, C. Hughes, M. C. Christman, **V. Mai**, W. J. Dahl, T. Boileau, S.S. Jonnalagadda and F. Thielecke. Fecal Lactic Acid Bacteria Increased in Adolescents Randomized to whole-Grain but not Refined-Grain Foods, whereas Inflammatory Cytokine Production decreased Equally with Both Interventions. *J. Nutrition* 2012; 142:2025-32 doi:10.3945/jn.112.164996)
40. T. Culpepper and **V. Mai**. Evidence for Contributions of Gut Microbiota to Colorectal Carcinogenesis. *Curr Nutr. Rep*. 2012; doi 10.1007/s13668-012-0032-0
41. **V. Mai**, R.M. Torrazza, M. Ukhanova, X. Wang, Y. Sun, N. Li, J. Schuster, R. Sharma, M.L. Hudak, J. Neu. Distortions in Development of Intestinal Microbiota Associated with Late Onset Sepsis in Preterm Infants. *PLoS ONE* 2013; 8(1) e52876
42. X. Wang, J. Yao. Y. Sun and **V. Mai**. M-pick, a modularity-based method for OTU picking of 16S rRNA sequences. *BMC Bioinformatics*. 2013, 14:43 doi:10.1186 IF 3.0
43. V. Antharam, E. Li, A. Ishmael, A. Sharma, **V. Mai**, K. Rand, and G. Wang. Intestinal dysbiosis and depletion of butyrogenic bacteria in *Clostridium difficile* infection and nosocomial diarrhea. *Journal of Clinical Microbiology* 51(9):2884-92 IF4.1

44. R.M. Torrazza, N. Li, C. Young, F. Kobeissy, M.Chow, S.Chen, **V. Mai**, R. Sharma, M.Hudak, J. Shuster and J. Neu. Pilot Study Using Proteomics to Identify Predictive Biomarkers of Necrotizing Enterocolitis From Buccal Swabs In very low Birth Birth Weight Infants. *Neonatology* 2013;104:234-242 IF 2.6
45. B.Lindsay†, M.Pop†, M. Antonio†, A. W. Walker†, **V.Mai†**, D. Ahmed†, J.Oundo†, B. Tamboura†, S. Panchalingam, M. M. Levine, K. Kotloff, S. Li, L.Magder, J. N. Paulson, B.Liu, U. Ikumapayi, C. Ebruke, M. Dione, M.Adeyemi, R. Rance, M. D. Stares, M. Ukhanova, B. Barnes, I. Lewis, F. Ahmed, M. Taifur Alam, R.Amin, S. Siddiqui, J.B. Ochieng, E.Ouma, J.Juma, E. Mailu, R.Omore, C.E. O'Reilly, J. Hannis, S. Manalili, J. DeLeon, I.Yasuda, L. Blyn, R. Ranken, F. Li, R.Housley, D. Ecker, M. A. Hossain‡, R.F. Breiman‡, J. G. Morris‡, T. McDaniel‡, J. Parkhill‡, D. Saha‡, R. Sampath‡, O. C. Stine‡, J.P. Nataro‡. Alternative Methods of Bacterial Pathogen Detection: Culture, GoldenGate®, Universal Biosensor®, 16S rRNA-Gene Survey. *J. Clin. Microbiol.* (published online ahead of print on 24 July 2013) IF 4.1
46. **V. Mai**. Health Benefits Mediated by Probiotics - How Can we Better Establish Them? *J Prob Health* 2013, 1:3
47. R.M. Torrazza, M. Ukhanova, N. Li, , R. Sharma, M.Hudak, J. Shuster, J. Neu and **V. Mai**. Intestinal Microbial Ecology and Environmental Factors Affecting Necrotizing Enterocolitis. *PLoS ONE* 2013 doi:10.1371 IF 3.7
48. M. Ukhanova, X.Wang, D. J. Baer, J. A. Novotny, M. Fredborg, V.Mai. Effects of almond and pistachio consumption on gut microbiota composition in a randomized cross-over human feeding study *BJN* 2014; 18:1-7 (epub ahead of print) IF 3.45
49. D. Hickman, M. K. Jones, S. Zhu, E. Kirkpatrick, D. A. Ostrov, X. Wang, M. Ukhanova, Y. Sun, **V. Mai**, M.Salemi, and S. M. Karst. The Effect of Malnutrition on Norovirus Infection *mBio* 2014 *mBio* 5(2):e01032-13 IF 5.7
50. R.Sharma, D.F. Kraemer, R.M. Torrazza, **V. Mai**, J.Neu, J. Shuster, M. L. Hudak. Packed Red Blood Cell Transfusion Is Not Associated with Increased Risk of Necrotizing Enterocolitis in Premature Infants. *J. Perinatology* 2014
51. D. J. Baer, K.S. Stote, T.Henderson, D. R. Paul, K. Okuma, H.Tagami, S. Kanahori, D.T. Gordon, W.V. Rumpler, M. Ukhanova, T. Culpepper, X. Wang, **V. Mai** Metabolizable Energy Value of Resistant Maltodextrin in Diets Consumed by Adult Men Is Variable and Consistent with Other Fiber Sources and Resistant Maltodextrin Consumption Alters Fecal Microbiota Composition. *J Nutr.* 2014: (epub ahead of print)
52. A. Hanfi, T. Culpepper, **V. Mai**, A. Anand, A.L. Ford, M. Ukhanova, M. Christman, T.A. Tompkinson, W. Dahl. Evaluation of *B. Subtilis* RO179 on gastrointestinal viability and general wellness: a randomized, double-blind, placebo-controlled trial in healthy adults. *Beneficial Microbes* 2014 doi:10.3920
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61. **V.Mai**, M. Prosperi, L. Yaghjian. Moving microbiota research towards establishing causal associations that represent viable targets for effective public health interventions Annals of Epidemiology Microbiome Symposium 2016 DOI:10.1016/j.annepidem.2016.03.011
62. L. Roesch, S. Waugh, **V. Mai**, P. Dobbler, V. Pylro, I. Schwartz. Phenylketonuria and gut microbiota: a controlled study based on next-generation sequencing. PLoSOne (accepted June 16)

Books/Book Chapters:

1. **V.Mai** and J.Wiegel. Recombinant DNA applications in Thermophiles. **In:** Manual of Industrial Microbiology, 2<sup>nd</sup> edition. 1998. p. 511-519. ASM Press Washington DC
2. **V. Mai**, M. Pop, M. Schell. Metagenomic Analysis of Human Gut Microbiota. **In:**Metagenomics, R. Li (editor), 2011. Nova
3. J.Neu, C. Young and **V. Mai**. The developing intestinal microbiome: Implications for the neonate. In: Avery's Diseases of the Newborn, 9/e, Ch. 72 Gleason/Devaskar, 2012. Elsevier
4. J. Neu and **V.Mai**. The Developing Intestinal Microbiome and its Relationship to Health and Disease. In: Gastroenterology and Nutrition. Neonatology Questions and Controversies. Ch. 5 p.59-67 2nd edition. 2012. Saunders and imprint of Elsevier
5. T. Culpepper, M. Ukhanova, D. Baer, S. Kanahori, K. Okuma, H. Tagami, D. Gordon and **V. Mai**. Fecal microbiota composition is affected by resistant maltodextrin, and bifidobacteria counts correlate with energy gain. In: Dietary Fiber and Health. Ch 19. 269-278. 2012. CRC press

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1. **V. Mai**, J.G. Morris, O.C. Stine. Timing in Collection of Stool Samples. *Science* 2005;310:218
2. **V. Mai**, J.G. Morris. Need for Prospective Cohort Studies to Establish Human Gut Microbiome Contributions to Disease Risk. *JNCI* 2013. 105:1850-51

#### Presentations

1. M.Engle, J.Brill, S.DeBlois, **V.Mai**, F.Rainey and J.Wiegel (1994) Anaerobic alkali- thermophiles, a novel group of fast growing bacteria. Abstracts IUMS 7<sup>th</sup> Intern. Congress of Bact. and Appl. Microbiol. Division
2. **V.Mai** and J.Wiegel (1996) Transfer and expression of ADH and PDC from *Z.mobilis* in *Thermoanaerobacterium* JW/SL-YS485. Thermophile 96 poster abstracts
3. **V.Mai**, W.Lorenz and J.Wiegel (1996) Development of a genetic system for the Gram-type positive, thermophilic anaerobe *Thermoanaerobacterium* JW/SL-YS485. Ann. Meet. ASM abstracts #O-75
4. **V.Mai** and J.Wiegel (1997) Transfer and expression of two mannanases in *Thermoanaerobacterium* JW/SL-YS485. Southeastern Branch ASM abstracts
5. **V.Mai** and J.Wiegel (1997) Transfer and expression of heterologous genes in *Thermoanaerobacterium* JW/SL-YS485. Ann. Meet. ASM abstracts # O-45
6. **V.Mai** and J.Wiegel (1998) Cloning into Anaerobic Thermophiles Ann. Meet. SIM abstracts #P-85
7. **V.Mai** and J.Wiegel (1998) Expression of mannanases and cellulases in *Thermoanaerobacterium* JW/SL-YS485. Ann. Meet. ASM abstracts # O-63
8. **V. Mai**, A. Flood, J. V. Lacey Jr., C. Schairer, E. Lanza, , and A. Schatzkin. Dietary Fiber and CRC in the BCDDP follow-up cohort. 2001, AACR #4103
9. **V. Mai**, A. Schatzkin, and S. Hursting. Effects of calorie restriction, diet composition, and exercise in a genetic mouse model (MIN) of intestinal cancer. **(invited speaker)** 2002 FASEB
10. **V. Mai**, B. Clevidence, and A. Schatzkin. Effects of a controlled diet and black tea drinking on the fecal flora composition of human volunteers in a double-blinded randomized feeding study. 2002 American Society for Microbiology #3136
11. **V. Mai**, L. Colbert, D. Berrigan, J. Lavigne, P. Srinivas, S. N. Perkins, R. Pfeiffer, E. Lanza, A. Schatzkin, S. D. Hursting. Effects of calorie restriction and diet composition on intestinal carcinogenesis in *ApcMin* (Min) mice. 2002 AACR Frontiers in Cancer Prevention Research # B302
12. **V. Mai** Dietary modification of colonic bacteria **(invited speaker)** 2003 FASEB
13. **V. Mai**, A. Patel, H. Zeytin, J. Greiner, S. Perkins, S. Hursting. Effects of a calorie restricted diet and a low risk diet on intestinal flora composition and immune parameters in a dietary prevention study of intestinal carcinogenesis in *ApcMin* (Min) mice. 2003 American Society for Microbiology E-120
14. **V. Mai (invited speaker)** 2003 Intestinal microflora and carcinogenesis. Grand rounds. Iowa State University
15. **V. Mai (invited speaker)** L. Colbert, A. Patel, H. Zeytin, J. Greiner, S. N. Perkins, S. D. Hursting. Caloric restriction, microbial flora and immune status. 2004 AACR Colon Cancer in Murine Models and Humans.
16. **V. Mai (invited speaker)** The role of the intestinal microflora in colorectal carcinogenesis. 2004 GI Grand Rounds UMB, Baltimore, MD
17. **V. Mai (invited speaker)** The role of the intestinal microflora in colorectal carcinogenesis. 2004 Conference on statewide academic health center's cancer initiatives. Baltimore, MD
18. J.M.Hirshon, L.Harris. R. Heimer. J. Meek, **V. Mai**, C. Braden. Unexplained diarrhea sentinel surveillance. 2004 Intern. Conference on Emerging Diseases

19. A. Flood, **V. Mai**, R. Pfeiffer, L. Kahle, A. Remaley, C. Rosen, E. Lanza, A. Schatzkin. Effects of a High-Fiber, High-Fruit and Vegetable, Low-Fat Dietary Intervention on Serum Concentrations of Insulin, Glucose, IGF-I and IGFBP-3. 2004 Society for Epidemiological Research
20. **V. Mai (invited speaker)** Diet, Intestinal Microflora and Carcinogenesis. 2004 Longrifles Prostate Cancer and Inflammation. JHU, Baltimore, MD
21. L. Colbert, **V. Mai**, S. Perkins, J. Tooze, S. Hursting. Voluntary exercise decreases intestinal tumor burden in *ApcMin* (Min) mice. ACSM 2005
22. N. Cornick, A. Helgeson, J. Ritchie, K. Strauss, D. Acheson, **V. Mai**. In vivo transduction of stx-encoding phage in a ruminant model. 2005 American Society for Microbiology
23. **V. Mai**, H. Harmsen, J. Nataro, S. Gill, G.W. Welling, G. Morris, C. Stine. Comprehensive characterization of the fecal microflora of a human volunteer. 2005 American Society for Microbiology, Beneficial Microbes
24. Q. McCrary, Q. Lin, C. J. Boushey, R. Sinha, and **V. Mai**. Diet and microflora composition in African American and Caucasian American residents of the Eastern Shore of Maryland. 2005 American Institute for Cancer Research
25. Q. McCrary, Q. Lin, C. J. Boushey, R. Sinha, C. Frankenfeld and **V. Mai**. Diet mediated differences in fecal microflora composition as a potential factor contributing to the high burden of CRC in African Americans. AACR Cancer Prevention Conference 2005
26. **V. Mai (invited speaker)** The role of the intestinal microbiota in colorectal carcinogenesis. Cancer Prevention Fellowship Lecture, National Cancer Institute 2005
27. **V. Mai (invited speaker)** Intestinal microbiota and colorectal carcinogenesis. Purdue University 2006
28. L. Sansbury, A. Flood, A. Bergen, **V. Mai**, M. Cantwell, A. Schatzkin, E. Lanza. DNA repair gene polymorphisms, insulin resistance, and risk of adenomatous polyp recurrence. Keystone 2006
29. A. Flood, **V. Mai**, R. Pfeiffer, L. Kahle, A. T. Remaley, C. J. Rosen, E. Lanza, A. Schatzkin. Serum Insulin, Glucose, IGF-I, and IGFBP-3 and recurrence of colorectal adenomas. North American Congress of Epidemiology 2006
30. **V. Mai (invited speaker)** Potential contributions of the human microbiota to increased colorectal cancer risk in African Americans. Departmental Lecture. Department of Epidemiology and Preventive Medicine, Univ. of MD 2006
31. **V. Mai (invited speaker)** The potential contributions of the human microbiota to carcinogenesis. Viral Epidemiology Branch, Div. of Cancer Epidemiology and Genetics, NCI 2006
32. A. D. Winchester, D. Boucaud, C. Timmons, T. and **V. Mai**. Development of a new cell line used to screen for Upstream Stimulatory Factor (USF) modulating protein. 2006 AACR General meeting abstract #888
33. **V. Mai**, Microbiota in health and disease. Planning group on foodborne diseases. Institute of Medicine 2007 (**invited speaker**)
34. Gut microbiota and infectious diseases. ICDDR research day, Bangladesh 2007 (**invited lecture**)
35. Administration of specific bacteriophage for the prevention of foodborne disease. American Society for Microbiology Beneficial Microbes 2008
36. Gut microbiota and colorectal carcinogenesis. American Society for Preventive Ecology Annual Meeting 2009 (**invited speaker**)
37. **V. Mai**, M. Ukhanova, D. Baer, S. Kanhori, D. Gordon. Effects of RM on fecal microbiota. EB 2009
38. M. Mshvildadze, N. Li, M. Ukhanova, J. Neu, **V. Mai**. Comprehensive Pyrosequencing Based Analysis of Fecal Microbiota Composition in Preterm Infants. Pediatrics Annual Meeting 2009
39. **V. Mai**, M. Ukhanova\*, D. Baer, K. Okuma, H. Tagami, S. Kanahori, D. Gordon. Effects of RM on fecal microbiota composition. FASEB J. 2009 23:719.9

40. C. Nieves, K. Herrlinger, A. Byard\*, M. Ukhanova, V. Mai, B. Langkamp-Henken. FOS alters microbiota. FASEBJ. 2009 23:907.3
41. D. Baer, V. Mai, K. Okuma, H. Tagami, S. Kanahori, D. Gordon. W. Rumpler. Metabolizable energy value of RM. FASEB J. 2009 23:541.4
42. A. Shore, C. Nieves\*, A. Maki, M. Ukhanova, **V. Mai**, R. Cousins, B. Langkamp-Henken. Effects of zinc deficiency on colonic microbiota. FASEB J. 2010,
43. V. Mai. The growth and diversity of the (intestinal) microbiota as affected by dietary fiber. Vahouny Fiber symposium, Washington DC 2010 (**invited lecture and panelist**)
44. T.Culpepper, M. Ukhanova, **V.Mai**. Gut microbiota associated with colorectal polyp prevalence. American Society for Microbiology Annual Meeting 2010
45. V. Mai. New 16S rRNA Sequence Data Mining Tools Help Identify Gut Microbes Associated with Colorectal Polyp Prevalence. INRA Gut Microbiology, Aberdeen 2010 (**invited speaker**)
46. V. Mai. National Cancer Institute (NCI) workshop, "Human Microbiome, HIV Infection and Cancer" Bethesda, MD September 2010 (**invited speaker**)
47. V. Mai. 18th Scientific Symposium of the Lilly Foundation entitled "Microbiome: Discovering the last human body organ" Madrid, Spain 2010 ( **invited speaker**)
48. V. Mai. Metagenomic Studies of Microbiota and Human Health. 2011 EMBL Heidelberg, Germany (**invited lecture**)
49. V. Mai. Microbiota Changes Associated With Onset of Necrotizing Enterocolitis. Human Microbiome Conference, Vancouver, Canada 2011 (**selected speaker**)
50. **V.Mai**, M. Ukhanova, T. Culpepper, X. Wang, D. Baer. Human gut microbiota changes after consumption of almonds or pistachios EB 2012
51. T. Culpepper, S. Girard, W. Dahl, B. Langkamp-Henken, **V. Mai**. Effects of GOS on the gut microbiota of aged adults EB 2012
52. S. Girard, T. Culpepper, W. Dahl, **V. Mai**, B. Langkamp-Henken. GOS decrease the probability of upper respiratory tract infection EB 2012
53. B. Langkamp-Henken, S. Girard, **V. Mai**, W. Dahl. Immune Modulating Nutraceuticals and Functional Foods EB2012
54. R. Murgaz Torrazza, **V. Mai**, R. Sharma, M. Hudak, D. Schuster, J. Neu. Buccal Swab IL-1ra in Necrotizing Enterocolitis: A Predictive Marker. EB 2012
55. R. Murgaz Torrazza, **V. Mai**, M.Ukhanova, R. Sharma, M. Hudak, D. Schuster, J. Neu. Alteration in Intestinal Microbiota and NEC in Very Low Birth Weight Infants. PAS13
56. **V.Mai**, M. Ukhanova, R. Sharma, R. Murgaz Torrazza M. Hudak, D. Schuster, J. Neu. Distortions in fecal microbiota development correlate with Late Onset Sepsis (LOS) and Necrotizing Enterocolitis (NEC) in Preterm Infants. Microbiome Elsevier, Lisboa, Portugal 2013
57. T.Culpepper, V. Vedam-Mai, M. Ukhanova, X. Wang, **V. Mai**. Investigating Microbiota Contributions to Colorectal Polyp Prevalence. ASM 2013
58. **V.Mai**. Associations between gut microbiota and colorectal carcinogenesis. Moffitt Cancer Center, Infectious carcinogenesis group. 2013 (**invited lecture**)
59. **V.Mai**. Study Design, Bioinformatics and Biostatistics Challenges in Microbiota Studies. UF Genetics Institute. 2013 (**invited lecture**)
60. **V.Mai** Linking fiber intake with microbiota associated health benefits. IFT13. 2013 (**invited lecture**)
61. T. Culpepper, J.-A. Coppola, D. Lopez, A.Rohani, **V. Mai**, W.Dahl. The Effect of Calcium Supplementation on Gastrointestinal Survival of Lactobacillus ssp. Probiotics 2013
62. M. Ukhanova, **V. Mai**, M. Li, J. Woolston, C. Carter and A. Sulakvelidze. Phagebiotics: bacteriophages as new class of probiotics for managing gut microflora. Probiotics, Roma 2013

63. G. Hinkley, T. Ngo, M. Ukhanova, J. Munson, **V.Mai**, S. Roberts. Investigating the influence of oral exposure to silver nanoparticles on intestinal microbiota in non-human primates. American. Soc. of Toxicology 2014
64. G. Hinkley, T. Ngo, M. Ukhanova, J. Munson, S. Roberts, **V.Mai**. Investigating the influence of oral exposure to silver nanoparticles on intestinal microbiota in non-human primates. EPI Research Day 2014
65. A. Anand, M. Ukhanova, V. Mai, W. Dahl, A. Ford. The Effect of Pea Hull Fiber on Microbiota Composition. EPI Research Day 2014
66. T. Culpepper, S.J. Spaiser, C. Nieves, Jr., M. Ukhanova, N. Mohamad, **V. Mai**, S. S. Percival, M.C. Christman, B.Langkamp-Henken. Bifidobacterium bifidum G9-1, Bifidobacterium longum MM2, and Lactobacillus gasseri KS-13 ingestion induces a potentially beneficial shift in gut microbiota and impacts cell-mediated immunity in older adults: a randomized, double-blind, placebo-controlled, cross-over study. EB2014
67. **V.Mai**. Study Design, Bioinformatics and Biostatistics Challenges in Microbiota Studies. Soy Board of America 2014 (**invited lecture**)
68. T. Culpepper, M. Ukhanova, X. Wang, Y. Sun, **V. Mai**. Associations between diet, gut microbiota and markers of CRC risk. Metabolism and Cancer 2014
69. T. Culpepper, M. Ukhanova, L. Yaghjian, S. Sites, Y. Sun, M. Prosperi, **V. Mai**. Correlations between diet, gut microbiota and epithelial methylation pattern with CRC risk. AACR Frontiers in Cancer Prevention research 2014 DOI: 10.1158/1940-6215.PREV-14-A31
70. **V.Mai**. Challenges in linking gut microbiota to relevant health measures. Moffitt Cancer Center grand Rounds 2014 (**invited lecture**)
71. J. L. Pope, Y. Yang, X. Sun, M. Ukhanova, J. Neu, **V. Mai**, C. Jobin. A clinical isolate of Klebsiella from infants with NEC induces colonic inflammation. AGA 2015 #Su 1874
72. Linking diet and gut microbiota with mechanisms affecting colorectal carcinogenesis, a need for new 'big data' approaches. Shands Health Cancer Center 2015 (**invited lecture**)
73. Tree Nuts and the Gut: Supporting a Healthy Microbiota 12<sup>th</sup> European Nutrition Conference Berlin, Germany 2015 (**invited lecture**)
74. J.C. Dennis, T. Culpepper, C. Nieves Jr., M. Ukhanova, **V. Mai**, M. Christman, B. Langkamp-Henken. Probiotics and Health related Quality of life in individuals with seasonal allergies EB 2016 # D389
75. **V.Mai**. Contributions of Gut Microbiota to Health Benefits of Dietary Fiber EB 2016
76. **V. Mai**, S. Waugh, D.J. Simpson, F.R. Hadjimiry, M. Ukhanova. Consumption of roasted chick peas results in increased excretion of oral bacteria in feces. EB 2016 #D61