CURRICULUM VITAE

February 2022

VOLKER MAI, PhD, MPH

Associate Professor

Department of Epidemiology

College of Public Health and Health Professions and College of Medicine

Emerging Pathogens Institute

2055 Mowry Rd.

Univ. of Florida, Gainesville, FL USA

[vmai@ufl.edu](mailto:vmai@epi.umaryland.edu)

Citizenship(s): USA, Germany

**Education**

**Master of Public Health (MPH)** 2000

Quantitative Methods, Harvard School of Public Health

**Doctor of Philosophy (PhD)** 1999

Dept. of Microbiology, University of Georgia

**Bachelor of Sciences** 1992

# University of Georgia, Major: Biochemistry

**Medical College (part time)** 1986 – 1990 Ernst Moritz Arndt Univ., Greifswald, Germany

**High School Diploma** 1985

W. Pieck OS, Neubrandenburg, GDR (East Germany)

## Professional Experience

## University of Florida, Gainesville, FL

## *Associate Professor* (with tenure since 2016) 2012-Department of Epidemiology, College of Public Health and Health Professions and

College of Medicine

***Associate Member* 2007-**

Emerging Pathogens Institute, UF Health Cancer Center

## *Assistant Professor* 2007-2012 Department of Microbiology and Cell Biology, Institute of Food and Agricultural Sciences

**Moffitt Cancer Center, Tampa, FL**

***Affiliate Member* 2010-**

Infectious Cancer Epidemiology group

## University of Maryland, Baltimore, MD

## *Assistant Professor* 2003-2007

## Dept. of Epidemiology and Preventive Medicine, School of Medicine

## National Cancer Institute, Rockville, MD

## *Postdoctoral Cancer Prevention Fellow* 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

## *Graduate student* 1993-1999

*Teaching Assistant*

Introductory Microbiology 1993-1996 Computational Skills in Microbiology 1997

Graduate Student Seminar 1998

TA-Mentor 1997-1998

CURO-TA (campus wide teaching network) 1998

*Research Assistant* 1994-1998

*Lab volunteer*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 COM term professor 2016-2017 2017-2019

Illumina “Mini” worldwide challenge First prize winner (with Drs. Prosperi and Cottler) 2016

UF PHHP Dean’s Best Paper award,Dept. of Epidemiology 2014

UF PHHP Dean’s Best Paper award,Dept. of Epidemiology 2013

UF PHHP 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 PreventionFellowship 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

ElectedPhi 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 (research mentor 2014-17)

Tyler Culpepper UF PhD student (thesis supervisor 2013)

Jin Yao UF PhD student (thesis co-supervisor 2014)

Emily Klann UF PhD student (research mentor 2018-)

Yaser Alsahafi UF PhD student (thesis co-supervisor)

Alexander Gutalj UF MS student (thesis supervisor 2013)

Akemi Wijayabahu UF MS student (thesis supervisor 2017), PhD advisor 2019-

Upuli Dissanayake UF MS student (thesis supervisor 2019), PhD advisor 2019-

Mengxiong Wang UF MPH (project mentor)

Nicholas Kowalkowski UF MPH (mentor)

Jaquelyn Nagy UF MPH (mentor)

Kallen Shaw UF MPH (mentor)

Rachael Shaw UF MPH (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 2015

Genetics, Intramural program review panel member

NIH Nutrition and Metabolic Processes (INMP) Study Section 2015

NIH conflicting applications study section 2016

NIH ZRG1 AARR 2016

NIH, ZRG1 EMNR (50) special emphasis panel 2017

ZRG1 IDM-R (02) 2017

NIH CRFS 2017

**Industrial Consultantships**

Intralytix Inc.(Baltimore, MD) , Matsutani Inc.(Japan), Genomic Nanosystems (Rockville, MD), Micropharma (Montreal Cananda).

**Professional Service**

UF PHHP Faculty Council, president elect 2016

UF Faculty Senate member, elected 2014-

UF PHHP 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 7th percentile July 2015

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

**Role:** **Co-PI** 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

**Role: Co-Investigator** responsible for microbiota analysis

NIH RO1 (Morris, G PI) 01/01/17-12/31/21 1.2CM

Cholera persistence, transmission, and clinical illness in Haiti

**Role: Co-Investigator** responsible for microbiota analysis

Pepsico (**PI** subcontract, B. Langkamp-Henken) 07/31/17-06/30/18 0.3CM

The effect of citrus beverages on gastrointestinal function in healthy adults; a randomized, double-blind, controlled clinical trial"

**Role: PI (subcontract)** responsible for microbiota analysis

UF bridge funding 05/31/17-04/30/18

Urinary estrogens and gut microbiome composition in healthy postmenopausal women

**Role: Co-PI** responsible for microbiota analysis

Completed

Bill and Melinda Gates Foundation 01/01/15-12/31/16

Microbiota development and NEC in preterm infants, Brazil

**Role: PI**, responsible for microbiota analysis

Matsutani/ADM (PI L-Henken, **Mai**) 04/30/16-04/30/17

Resistant maltodextrin supplementation and the effect on fecal bifidobacteria,

bowel function and dietary intake

**Role: PI** (subaward)

Illumina Mini Challenge (Prosperi, Cottler, **Mai**) 04/30/2016

Monitoring emerging infectious disease using high throughput sequencing

Role: Co-PI (responsible for sequencing)

FACCA (Yaghjyan/Egan) 08/1/2015 – 12/31/2016

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

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

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

SunMaid America 07/31/15-06/30/16

Effects of adding raisins to American diet on gut microbiota composition and activities

**Role: PI**

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**

MRSGT 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-oligosacharides 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 (**M-PI,** Yaghjyan, **Mai**) submitted June 2017

Associations between breast microbiota and tissue genome methylation

NIH R21 (**M-PI,** Vedam-Mai, **Mai**) submitted February 2017

The role of gut microbiota in early PD development

NIH R01 (**Co-PI**) resubmission Fall 2017

Novel bromophenazine compounds to treat biofilm infections

CDC UO1 Center for infectious disease surveillance (**Co-I**) submitted Fall 2016

DoD (**Co-PI**, PI V, Vedam-Mai) submitted Fall 2016

The role of gut microbiota in early PD development

DHS (Prosperi, Mai) submitted Fall 2016

How to Tackle Emerging Vector-Borne Epidemics using Ecological Microbiomics

Viva5 Corporation contract (**PI**) submitted Fall 2016

Survival of Bacillus spores during GI transit

**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

1. **V.Mai**, J.Wiegel, W.Lorenz . Cloning and expression of a novel bifunctional xylosidase/arabinosidase from *Thermoanaerobacter ethanolicus* JW200. Gene. 2000; **247**:137-143
2. **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
3. **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 *ApcMin* Mice Through Different Mechanisms. Cancer Research. 2003; **63**:1752-1755
4. L. Colbert, **V.Mai,** S. Perkins, D. Berrigan, J. Lavigne, H. Wimbrow, P.Srinivas, S. Hursting Exercise and intestinal polyp development in APCMin mice. Medical Science Sport and Exercise. 2003;**35**:1662-1669
5. **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
6. **V. Mai**, J.G. Morris. Colonic Bacterial Flora: Changing Understandings in the Molecular Age. Journal of Nutrition. 2004;**134**:459-464
7. **V. Mai**. Dietary Modification of Intestinal Microbiota. Nutrition Reviews. 2004;**62**: 235-242
8. **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
9. 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
10. H. Trachtman, E. Christen, A. Cnaan, J. Patrick, **V. Mai**, J. Mishra, A. Jain, N. Bullington, P. Devarajan. Urinary neutrophil gelatinase-associated lipocalcin in D+HUS: a novel marker of renal injury. Pediatric Nephrology 2006;21(7):989-94
11. L. H. Colbert, **V. Mai**, J. A. Tooze, S. N. Perkins, David Berrigan, S.D. Hursting. Voluntary Wheel Running Inhibits Polyp Development in APCmin Mice. Carcinogenesis 2006;**27**(10):2103-7
12. 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
13. **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
14. **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
15. 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
16. **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
17. 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
18. 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-
19. 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.
20. 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.
21. Neu, J., M. Mshvildadze, and **V. Mai**. A roadmap for understanding and preventing necrotizing enterocolitis. Curr Gastroenterol Rep. 2008.**10**:450-457.
22. **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.
23. 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
24. 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.
25. **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
26. 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
27. **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
28. **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 ananlysis 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 inAdolescents Randomized to whole-Grain but not Refined-Grain Foods, whereas Inflammatory Cytokine Production decreased Equally with Both Interventions. J. Nutrition 2012; 142:2025-32 doi10.3945/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. Neuand **V. Mai**. Intestinal Microbial Ecology and Environmental Factors Affecting Necrotizing Enterocolitis. PLosONE 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

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38. V. Mai. Metagenomic Studies of Microbiota and Human Health. 2011 EMBL Heidelberg, Germany (**invited lecture**)
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61. 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
62. Linking diet and gut microbiota with mechanisms affecting colorectal carcinogenesis, a need for new 'big data' approaches. Shands Health Cancer Center 2015 **(invited lecture)**
63. Tree Nuts and the Gut: Supporting a Healthy Microbiota 12th European Nutrition Conference Berlin, Germany 2015 **(invited lecture)**
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