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ACADEMIC APPOINTMENTS

2008- Assistant Professor, Department of Medicine, Section of Gastroenterology, The University of Chicago;
Assistant Biologist, Institute for Genomics & Systems Biology, Biosciences Division, Argonne National Laboratory (joint appointment)

Ph.D.-Granting Committee, Program, Institute, and Center Appointments

2008- Core Faculty, Institute for Genomics & Systems Biology
2008- Digestive Diseases Research Core Center (DDRCC)

ACADEMIC TRAINING

1991-1996 B.S., General Biology, 1996, University of Illinois at Urbana-Champaign, Champaign, IL
1996-2001 M.S., Animal Sciences, 2001, University of Illinois at Urbana-Champaign, Champaign, IL
2001-2004 Ph.D., Animal Sciences, 2004, University of Illinois at Urbana-Champaign, Champaign, IL
2004-2006 Postdoctoral fellow, Dept. of Microbiology and Molecular Genetics, Michigan State University, East Lansing, MI
2007-2008 Research fellow, Division of Infectious Diseases, The University of Michigan, Ann Arbor, MI

LICENSING AND BOARD CERTIFICATION

n/a

PROFESSIONAL SOCIETIES

Elected or invited membership:

n/a

Other:

American Society for Microbiology
American Association for the Advancement of Science

HONORS, PRIZES, AND AWARDS

2002 Travel award, 2nd Annual ASM/TIGR Microbial Genomes Meeting
2003 A.L. Neumann Outstanding Graduate Student Award, Dept. of Animal Sciences, University of Illinois at Urbana-Champaign

- 2004-2006 USDA National Research Initiative Competitive Grants Program (NRICGP), Agricultural Research Enhancement Award (AREA), Postdoctoral fellowship, Michigan State University
- 2007-2008 Ruth L. Kirschstein National Research Service Award (NRSA), Postdoctoral fellowship, The University of Michigan
- 2008-2009 New Investigator Award for 2008, Digestive Diseases Research Core Center (DDRCC) Pilot & Feasibility Program, The University of Chicago, 2008-2009

SCHOLARSHIP

Peer-reviewed publications in the primary literature, exclusive of abstracts:

1. Sghir, A., **D. Antonopoulos**, and R.I. Mackie. (1998) Design and evaluation of a *Lactobacillus* group-specific ribosomal RNA-targeted hybridization probe and its application to the study of intestinal microecology in pigs. *Systematic and Applied Microbiology*. **21**:291-6. PMID: 9704114
2. **Antonopoulos, D.A.**, R.I. Aminov, P.A. Duncan, B.A. White, and R.I. Mackie. (2003) Characterization of the gene encoding glutamate dehydrogenase (*gdhA*) from the ruminal bacterium *Ruminococcus flavefaciens* FD-1. *Archives of Microbiology*. **179**:184-190. doi:10.1007/s00203-002-0513-4. PMID: 12610723
3. **Antonopoulos, D.A.**, W.M. Russell, and B.A. White. (2004) Phylogenetic reconstruction of Gram positive organisms based on comparative sequence analysis of molecular chaperones from the ruminal organism *Ruminococcus flavefaciens* FD-1. *FEMS Microbiology Letters*. **227**:1-7. doi:10.1016/S0378-1097(03)00597-4. PMID: 14568141
4. **Antonopoulos, D.A.**, K.E. Nelson, M. Morrison, and B.A. White (2004) Strain specific genomic regions of *Ruminococcus flavefaciens* FD-1 as revealed by combinatorial random-phase genome sequencing and suppressive subtractive hybridization. *Environmental Microbiology*. **6**:335-346. doi:0.1111/j.1462-2920.2004.00576.x. PMID: 15008812
5. Galbraith, E.A., **D.A. Antonopoulos**, and B.A. White. (2004) Suppressive subtractive hybridization as a tool for the identification of genetic diversity in an environmental metagenome: the rumen as a model. *Environmental Microbiology*. **6**:928-937. doi:10.1111/j.1462-2920.2004.00575.x. PMID: 15305918
6. Jindou, S., I. Borovok, M.T. Rincon, H.J. Flint, **D.A. Antonopoulos**, M.E. Berg, B.A. White, E.A. Bayer, and R. Lamed. (2006) Conservation and divergence in cellulosome architecture between two strains of *Ruminococcus flavefaciens*. *Journal of Bacteriology*. **188**:7971-7976. doi:10.1128/JB.00973-06. PMID: 16997963
7. Chang, J.Y., **D.A. Antonopoulos**, A. Kalra, A. Tonelli, W.T. Khalife, T.M. Schmidt, and V.B. Young. (2008) Decreased diversity of the fecal microbiome in recurrent *Clostridium difficile*-associated diarrhea. *Journal of Infectious Disease*. **197**:435-438. doi:10.1086/525047. PMID: 18199029
8. Brulc, J.M., **D.A. Antonopoulos**, M.E. Berg Miller, M.K. Wilson, A.C. Yannarell, E.A. Dinsdale, R.E. Edwards, E.D. Frank, J.B. Emerson, P. Wacklin, P.M. Coutinho, B. Henrissat, K.E. Nelson, and B.A. White. (2009) Gene-centric metagenomics of the fiber-adherent bovine rumen microbiome reveals forage specific glycoside hydrolases. *Proceedings of the National Academy of Sciences of the United States of America*. **106**:1948-1953. doi:10.1073/pnas.0806191105. PMID: 19181843
9. **Antonopoulos, D.A.**, S.M. Huse, H.G. Morrison, T.M. Schmidt, M.L. Sogin, and V.B. Young. (2009) Reproducible community dynamics of the gastrointestinal microbiota following antibiotic perturbation. *Infection and Immunity*. **77**:2356-2366. doi:10.1128/IAI.01520-08. PMID: 19307217
10. Wang, Y., J.D. Hoenig, K.J. Malin, S. Qamar, E.O. Petrof, J. Sun, **D.A. Antonopoulos**, E.B. Chang, and E.C. Claud. (2009) 16S rRNA gene-based analysis of fecal microbiota from

- preterm infants with and without necrotizing enterocolitis. *The ISME Journal*. **3**:944-54. doi:10.1038/ismej.2009.37. PMID: 1936997022.
11. Garner, C.D., **D.A. Antonopoulos**, B. Wagner, G.E. Duhamel, I. Keresztes, D.A. Ross, V.B. Young, and C. Altier. (2009) Perturbation of the small intestinal microbial ecology by streptomycin alters pathology in a *Salmonella enterica* serovar Typhimurium murine model of infection. *Infection and Immunity*. **77**:2691-2702. doi:10.1128/IAI.01570-08. PMID: 19433544
 12. Berg Miller, M.E., **D.A. Antonopoulos**, M.T. Rincon, M. Band, A. Bari, T. Akraiko, A. Hernandez, J. Thimmapuram, B. Henrissat, P.M. Coutinho, I. Borovok, S. Jindou, R. Lamed, H.J. Flint, E.A. Bayer, and B.A. White. (2009) Diversity and strain specificity of plant cell wall degrading enzymes revealed by the draft genome of *Ruminococcus flavefaciens* FD-1. *Public Library of Science One*. **4**(8):e6650. doi:10.1371/journal.pone.0006650. PMID: 19680555.
 13. Angly, F.E., D. Willner, A. Prieto-Davó, R.A. Edwards, R. Schmieder, R. Vega-Thurber, **D.A. Antonopoulos**, K. Barott, M.T. Cottrell, C. Desnues, E.A. Dinsdale, M. Furlan, M. Haynes, M.R. Henn, Y. Hu, D.L. Kirchman, T. McDole, J.D. McPherson, F. Meyer, R.M. Miller, E. Mundt, R.K. Naviaux, B. Rodriguez-Mueller, R. Stevens, L. Wegley, L. Zhang, B. Zhu, and F. Rohwer. (2009) The GAAS metagenomic tool and its estimations of viral and microbial average genome size in four major biomes. *PLoS Computational Biology*. **5**(12):e1000593. doi:10.1371/journal.pcbi.1000593. PMID: 20011103.
 14. Glass, E.M., J. Wilkening, A. Wilke, **D. Antonopoulos**, and F. Meyer. (2010) Using the Metagenomics RAST server (MG-RAST) for analyzing shotgun metagenomes. *Cold Spring Harbor Protocols*. **2010**(1):pdb.pro5368. doi:10.1101/pdb.prot5368. PMID: 20150127.
 15. Lemke, S., S.E. Busch, **D.A. Antonopoulos**, F. Meyer, M.H. Domanus, and U. Schmidt-Ott. (2010) Maternal activation of gap genes in the hover fly *Episyrphus*. *Development*. **137**(10):1709-19. doi:10.1242/dev.046649. PMID: 20430746.
 16. Pfister, C.A, F. Meyer, and **D.A. Antonopoulos**. (2010) Metagenomic profiling of a microbial assemblage associated with the California mussel: a node in networks of carbon and nitrogen cycling. *PLoS One*. **5**(5):e10518. doi:10.1371/journal.pone.0010518. PMID: 20463896.
 17. Rincon, M.T., B. Dassa, H.J. Flint, A.J. Travis, S. Jindou, I. Borovok, R. Lamed, E.A. Bayer, B. Henrissat, P.M. Coutinho, **D.A. Antonopoulos**, M.E. Berg Miller, and B.A. White. (2010) Abundance and diversity of dockerin-containing proteins in the fiber-degrading rumen bacterium, *Ruminococcus flavefaciens* FD-1. *PLoS One*. **5**(8):e12476. doi:10.1371/journal.pone.0012476. PMID: 20814577.
 18. Hu, S., Y. Wang, L. Lichtenstein, Y. Tao, M. Musch, B. Jabri, **D. Antonopoulos**, E. Claud, and E. Chang. (2010) Regional differences in colonic mucosa-associated microbiota determine the physiological expression of host heat shock proteins. *American Journal of Physiology - Gastrointestinal and Liver Physiology*. **299**(6):G1266-75. doi:10.1152/ajpgi.00357.2010. PMID: 20864653.
 19. Wang, Y., **D.A. Antonopoulos**, X. Zhu, L. Harrell, I. Hanan, J.C. Alverdy, F. Meyer, M. Musch, V.B. Young, E.B. Chang. (2010) Laser capture microdissection and metagenomic analysis of intact mucosa-associated microbial communities of human colon. *Applied Microbiology and Biotechnology*. **88**(6):1333-42. doi:10.1007/s00253-010-2921-8. PMID: 20931185.
 20. Wang, Y., S. Devkota, M.W. Musch, B. Jabri, C. Nagler, **D.A. Antonopoulos**, A. Chervonsky, and E.B. Chang. (2010) Regional mucosa-associated microbiota determine physiological expression of TLR2 and TLR4 in murine colon. *PLoS One*. **5**(10):e13607. doi:10.1371/journal.pone.0013607. PMID: 21042588.

21. Dong, Q., J.M. Brulc, A. Iovieno, B. Bates, A. Garoutte, D. Miller, K. Revanna, X. Gao, **D.A. Antonopoulos**, V.Z. Slepak, and V.I. Shestopalov. (2011) Diversity and prevalence of bacteria at healthy human conjunctiva. *Investigative Ophthalmology and Vision Sciences*. Epub ahead of print. PMID: 21571682.
22. Lemke, S., **D.A. Antonopoulos**, F. Meyer, M.H. Domanus, and U. Schmidt-Ott. (2011) BMP signaling components in embryonic transcriptome of the hover fly *Episyrphus balteatus* (Syrphidae). *BMC Genomics*. **12**:278. doi:10.1186/1471-2164-12-278.
23. Kwon, M.J., E.J. O'Loughlin, **D.A. Antonopoulos**, and K.T. Finneran. (2011) Geochemical and microbiological processes contributing to the transformation of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in contaminated aquifer material. *Chemosphere*. [Epub ahead of print] doi:10.1016/j.chemosphere.2011.05.027.
24. Harrell, L., Y. Wang, **D. Antonopoulos**, V. Young, L. Lichtenstein, S. Hanauer, and E. Chang. (2012) Standard colonic lavage alters the natural state of mucosal-associated microbiota in the human colon. *PLoS One*. **7**(2):e32545. PMID: 22389708
25. Schneider JA, Vadivelu S, Liao C, Kandukuri SR, Trikamji BV, Chang E, **Antonopoulos D**, Prasad S, Lakshmi V. (2012) Increased Likelihood of Bacterial Pathogens in the Coronal Sulcus and Urethra of Uncircumcised Men in a Diverse Group of HIV Infected and Uninfected Patients in India. *J Glob Infect Dis*. 2012 Jan;4(1):6-9. PMID: 22529620
26. Devkota, S., Y. Wang, M. Musch, V. Leone, **D. Antonopoulos**, B. Jabri, and E.B. Chang. (2012) Dietary fat-induced taurocholic acid production promotes pathobiont and colitis in IL-10^{-/-} mice. *Nature*. **487**(7405):104-108. PMID: 22722865

Meeting reports and reviews:

1. Gilbert, J.A., F. Meyer, **D. Antonopoulos**, P. Balaji, C.T. Brown, N. Desai, D. Field, W. Feng, D. Huson, J. Jansson, R. Knight, J. Knight, E. Kolker, K. Konstantinidis, J. Kostka, N. Kyrpides, R. Mackelprang, A. McHardy, C. Quince, J. Raes, A. Sczyrba, A. Shade, and R. Stevens. (2010) Meeting report: the terabase metagenomics workshop and the vision of an Earth microbiome project. *Standards in Genomic Sciences*. **3**(3): 243-248. doi:10.4056/sigs.1433550. PMID: 21304727.
2. O'Brien, S.L., E.M. Glass, J.M. Brulc, J.A. Gilbert, **D.A. Antonopoulos**, and F. Meyer. (2011) Meeting Report: The 2nd Annual Argonne Soils Workshop, Argonne National Laboratory, Chicago Illinois, USA, October 6-8, 2010. *Standards in Genomic Sciences*. **5**(2):198-202. PMID: 22180822
3. Desai, N., **D. Antonopoulos**, J.A. Gilbert, E.M. Glass, F. Meyer. (2012) From genomics to metagenomics. *Current Opinion in Biotechnology*. Jan 5. [Epub ahead of print] PMID: 22227326

Abstracts:

1. Sghir, A., **D.A. Antonopoulos**, and R.I. Mackie (1997) "Use of 16S rRNA probe specific for *Lactobacillus*." *ASM General Meeting 1997*, Miami, FL, May 4-8.
2. **Antonopoulos, D.A.**, R.I. Aminov, B.A. White, and R.I. Mackie. (1998) "Sequencing and cloning of a family I glutamate dehydrogenase from *Ruminococcus flavefaciens* FD-1." *Rumen Function 1998*, Chicago, IL, October 19-23.
3. **Antonopoulos, D.A.**, R.I. Aminov, B.A. White, and R.I. Mackie. (1999) "Sequencing of ammonia assimilation enzymes from the ruminal organism *Ruminococcus flavefaciens* FD-1." *ASM General Meeting 1999*, Chicago, IL, May 30-June 3, K-24, p.405.
4. **Antonopoulos, D.A.**, and B.A. White (1999) "Sequencing of molecular chaperones from the ruminal organism *Ruminococcus flavefaciens* FD-1." *ASM General Meeting 1999*, Chicago, IL, May 30-June 3, H-52, p.339.
5. **Antonopoulos, D.A.**, and B.A. White (2000) "PCR screening of the rumen microbial meta-genome for *luxS* sequence homologues." *Rumen Function 2000*, Chicago, IL, October 19-23.

6. **Antonopoulos, D.A.**, and B.A. White (2001) "Functional integration of metabolic pathways in *Ruminococcus flavefaciens* FD-1." *Agricultural Microbial Genome 2*, San Diego, CA, January 17-19.
7. **Antonopoulos, D.A.**, and B.A. White. (2002) "Use of PCR-based subtractive hybridization to identify genes unique between strains of the cellulolytic organism *Ruminococcus flavefaciens*." *2nd Annual ASM/TIGR Microbial Genomes Meeting*, Las Vegas, NV, January 19-23.
8. **Antonopoulos, D.A.**, and B.A. White. (2002) "Identification of functional gene subsets from the cellulolytic organism *Ruminococcus flavefaciens* using a comparative genomics approach." *RRI-INRA 2002 Beyond Antimicrobials – the Future of Gut Microbiology*, Aberdeen, Scotland, June 10-13.
9. Morrison, M, K. Nelson, I. Cann, C. Forsberg, R.I. Mackie, J.B. Russell, B.A. White, D.B. Wilson, **D. Antonopoulos**, V. Parisi, C. Reveneau, S. Mulligan, K. Tran, H. Carty, H. Khouri, W. Nelson, S. Daugherty, and C. Fraser. (2003) "The *Ruminococcus albus* strain 8 genome sequencing project." *3rd Annual ASM/TIGR Microbial Genomes Meeting*, New Orleans, LA, January 19-23.
10. **Antonopoulos, D.A.**, and B.A. White. (2003) "Comparative genomics of a bifunctional cellulase sequence at the strain, species, and genus level in ruminal microorganisms." *2003 Conference on Gastrointestinal Function*, Chicago, IL, March 10-13.
11. Galbraith, E.A., **D.A. Antonopoulos**, and B.A. White. (2003) "A novel genomic approach for comparing complex microbial communities." *2003 Conference on Gastrointestinal Function*, Chicago, IL, March 10-13.
12. Scopel, K., **D.A. Antonopoulos**, and B.A. White. (2003) "DNA sequence analysis of the TetW gene from *Ruminococcus flavefaciens* JM1." *2003 Conference on Gastrointestinal Function*, Chicago, IL, March 10-13.
13. Galbraith, E.A., **D.A. Antonopoulos**, and B.A. White. (2003) "Suppressive subtractive hybridization analysis of metagenomic community DNA." *ASM General Meeting 2003*, Washington, DC, May 18-22.
14. **Antonopoulos, D.A.**, and B.A. White (2003) "Analysis of scaffoldins in the ruminal cellulolytic *Ruminococcus flavefaciens* FD-1." *Gordon Research Conference on Cellulases and Cellulosomes 2003*, Andover, NH, July 27-August 1.
15. Morrison, M., K.E. Nelson, **D.A. Antonopoulos**, B. Cheng, E. Devillard, D.E. Goodheart, H-S. Jun, V. Parisi, J-S. Park, S.M. Qi, C. Reveneau, I.K.O. Cann, S. Daugherty, C.W. Forsberg, I. Hance, R.I. Mackie, W.C. Nelson, J.B. Russell, B.A. White, and D.B. Wilson. (2003) "Functional and comparative genomics of cellulolytic bacteria." *MIE Bioforum 2003 Biotechnology of Lignocellulose Degradation and Biomass Utilization*, Ise-Shima, Japan, November 10-14.
16. **Antonopoulos, D.A.**, E.A. Bayer, and B.A. White (2003) "Identification of cellulase components from a random-phase genome sequence of *Ruminococcus flavefaciens* FD-1." *MIE Bioforum 2003 Biotechnology of Lignocellulose Degradation and Biomass Utilization*, Ise-Shima, Japan, November 10-14.
17. Galbraith, E.A., **D.A. Antonopoulos**, and B.A. White (2004) "Diversity in the rumen metagenome revealed by suppressive subtractive hybridization." *Society for General Microbiology, 155th Meeting*, Trinity College, Dublin, Ireland, September 6-9.
18. Berg, M.E., **D.A. Antonopoulos**, M. Morrison, K.E. Nelson, and B.A. White (2005) "Novel 2lycosyl hydrolase architecture from the *Ruminococcus flavefaciens* FD-1 genome." *2005 Conference on Gastrointestinal Function*, Chicago, IL, April 11-13.
19. **Antonopoulos, D.A.**, K. Huizinga, and T.M. Schmidt (2006) "Linking the structure and function of denitrifying communities in soil: what group of denitrifying bacteria is responsible for the rapid reduction of nitrate to nitrogen?" *Ecological Research in Agricultural Landscapes: The 2006 KBS LTER Symposium and Poster Forum*, East Lansing, MI, May 9.

20. Rincon, M., I. Borovok, M.E. Berg, **D.A. Antonopoulos**, R. Kim, L. Liu, J. Thimmapuram, S. Jindou, R. Lamed, H.J. Flint, E.A. Bayer, and B.A. White (2006) "Novel structural and catalytic elements in the *Ruminococcus flavefaciens* cellulosome revealed by genome analysis." *RRI-INRA 2006 Gut Microbiology 2006: 5th Biennial Meeting*, Aberdeen, Scotland, June 21-23.
21. Jindou, S., I. Borovok, M.T. Rincon, H.J. Flint, M.E. Berg, **D.A. Antonopoulos**, B.A. White, E.A. Bayer, and R. Lamed (2006) "Strain-specific architecture in cellulosome assembly in *Ruminococcus flavefaciens*." *RRI-INRA 2006 Gut Microbiology 2006: 5th Biennial Meeting*, Aberdeen, Scotland, June 21-23.
22. Berg, M.E., **D.A. Antonopoulos**, M. Rincon, M. Band, A. Bari, T. Akraiko, A. Hernandez, R. Kim, L. Liu, J. Thimmapuram, I. Borovok, S. Jindou, R. Lamed, H.J. Flint, E.A. Bayer, and B.A. White (2006) "Microarray gene expression profiling of *Ruminococcus flavefaciens* FD-1 grown on cellobiose or cellulose." *RRI-INRA 2006 Gut Microbiology 2006: 5th Biennial Meeting*, Aberdeen, Scotland, June 21-23.
23. Brulc, J.M., **D.A. Antonopoulos**, M.E. Berg, M.K. Wilson, R.E. Edwards, E.D. Frank, J. B. Emerson, K.E. Nelson, and B.A. White (2007) "Comparative metagenomics of the rumen microbiome by random sampling pyrosequencing." *2007 Conference on Gastrointestinal Function*, Chicago, IL, April 17-18.
24. **Antonopoulos, D.A.**, J.Y. Chang, A. Kalra, A. Tonelli, W.T. Khalife, T.M. Schmidt, and V.B. Young (2007) "Recurrent *Clostridium difficile*-associated diarrhea: evidence of decreased microbial diversity of the gut microbiome." *Center for Microbial Pathogenesis Research Forum*, East Lansing, MI, March 26.
25. **Antonopoulos, D.A.**, J.S. Pratt, T.M. Schmidt, and V.B. Young (2007) "Antibiotics and microbial ecology of the murine gastrointestinal tract." *Center for Microbial Pathogenesis Research Forum*, East Lansing, MI, March 26.
26. Young, V.B., **D.A. Antonopoulos**, T.M. Schmidt, J.S. Pratt, A. Blum, and J. Weinstock (2007) "*Heligmosomoides polygyrus* alters the bacterial microbiota of the murine GI tract." *Digestive Disease Week 2007*, Washington, DC, May 19-24.
27. Garner, C.D., **D.A. Antonopoulos**, D.A. Ross, V.B. Young, and C. Altier (2008) "Characterization of the ileal environment in normal and streptomycin-treated mice." *ASM General Meeting 2008*, Boston, MA, June 1-5.
28. **Antonopoulos, D.A.**, C. Holmes, S. Huse, H. Morrison, T.M. Schmidt, M. Sogin, and V.B. Young (2008) "Short-term antibiotic treatment alters the long-term diversity of the mouse microbiome." *ASM General Meeting 2008*, Boston, MA, June 1-5.
29. **Antonopoulos, D.A.**, A. Ammar, M.H. Domanus, R. Edwards, J. Jastrow, K. Kemner, R.M. Miller, K.A. Skinner-Nemec, R. Stevens, J. Wilkening, Y. Zhang, and F. Meyer (2008) "Metagenomic-based analysis of carbon management in diverse soils." *Metagenomics 2008*, San Diego, CA, November 3-7.
30. **Antonopoulos, D.A.**, A. Ammar, M. Boyanov, D. Deyvault, M.H. Domanus, C. Giometti, P. Long, F. Meyer, E.J. O'Loughlin, D. Sholto-Douglas, K. Skinner-Nemec, K.H. Williams, and K.M. Kemner (2009) "Microbial community analysis of iron-rich mineral suspensions inoculated with sediments from an UMTRA site." *ASM General Meeting 2009*, Philadelphia, PA, May 17-21.
31. Meyer, F., **D. Antonopoulos**, A. Wilke, and J. Wilkening (2009) "Updates to the MG-RAST community resource." *17th Annual International Conference on Intelligent Systems for Molecular Biology (ISMB) & 8th European Conference on Computational Biology (ECCB)*, Stockholm, Sweden, June 27 – July 2.
32. Wang, Y., **D. Antonopoulos**, X. Zhu, L. Lichtenstein, K. Drabik, J.C. Alverdy, F. Meyer, V. Young, and E.B. Chang (2009) "Metagenomic analysis of intact mucosa-associated microbial communities of the human colon." *Digestive Disease Week 2009*, Chicago, IL, May 30 – June 4.

33. Brezo, J., M. Domanus, **D. Antonopoulos**, and S. Das (2009) "The application of next generation sequencing technology for the diagnostics and study of mental retardation." *ASHG 59th Annual Meeting*, Honolulu, HI, October 20-24.
34. Kwon, M.J., E.J. O'Loughlin, **D.A. Antonopoulos**, K.A. Skinner-Nemec, and K.T. Finneran (2009) "Abiotic and biological degradation of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in aquifer sediment." *2009 Geological Society of America Annual Meeting*, Portland, OR, October 18-21.
35. M. Kwon, **D. Antonopoulos**, B.S. Bates, M. Boyanov, J. Brulc, M. Egholm, A. Garoutte, C. Giometti, T. Harkins, K. Kemner, P. Long, T. Marsh, M. McCormick, F. Meyer, J. Osterberger, R. Sanford, B.B. Simen, K. Skinner, J. Wilkening, K. Williams, D. Sholto-Douglas, and E. O'Loughlin. (2010) "Microbial community and biogeochemical dynamics under sulfate- and iron-reducing conditions." *DOE-SBR 5th Annual PI Meeting*, Washington, DC, March 29-31.
36. Devkota, S., Y. Wang, **D. Antonopoulos**, and E. Chang (2010) "Diets high in saturated fat increase intestinal inflammation associated with IBD via alterations in the microbiota." *Experimental Biology 2010*, Anaheim, CA, April 24-28.
37. Kwon, M. J., **D. Antonopoulos**, M. Boyanov, J. Brulc, P. Long, B. Mishra, K. Williams, K. Skinner, K. Kemner, and E. O'Loughlin. (2010) "Electron Donor Effects on Iron(III) and Sulfate Reduction and Microbial Community Development." *Challenges in Environmental Molecular Microbiology Workshop*, Argonne, IL, April 26-27.
38. Shestopalov, V.I., **D.A. Antonopoulos**, D. Miller, A. Iovieno, J.M. Brulc, B. Bates, A. Garoutte, M. Domanus, D.V. Ivanov, and V. Slepak (2010) "Analysis of bacterial community at the human conjunctiva." *ARVO 2010 Annual Meeting*, Fort Lauderdale, FL, May 2-6.
39. Wang, Y., S. Devkota, **D. Antonopoulos**, K. Drabik, M.W. Musch, and E.B. Chang (2010) "Regional differences of mucosa-associated microbiota are essential for longitudinal expression of TLR2 and TLR4 in murine colon." *Digestive Disease Week 2010*, Chicago, IL, May 3-7.
40. Stancukas, M., C. Evans, Y. Wang, S. Devkota, K. Drabik, **D. Antonopoulos**, E.B. Chang, K.J. LePard, and M.J. Ciancio (2010) "Voluntary exercise alters enteric microbiota but not intestinal transit." *Digestive Disease Week 2010*, Chicago, IL, May 3-7.
41. **Antonopoulos, D.A.**, B.S. Bates, M.I. Boyanov, J.M. Brulc, M. Egholm, A. Garoutte, T. Harkins, M. Kwon, P. Long, F. Meyer, E.J. O'Loughlin, J. Osterberger, B.B. Simen, K.A. Skinner, J. Wilkening, K.H. Williams, and K.M. Kemner (2010) "The evolution of microbial communities within iron-rich mineral suspensions inoculated with sediments from an UMTRA site." *ASM General Meeting 2010*, San Diego, CA, May 23-27.
42. Penton, C.R., V. Young, **D. Antonopoulos**, L. Harrell, E.B. Chang, Q. Wang, J. Cole, and J. Tiedje. (2010) "Temporal changes of bacterial butyrate functional gene communities in ulcerative colitis patients: a role for the gut microbiome in health and disease." *13th International Symposium on Microbial Ecology*, Seattle, WA, August 22-27.
43. O'Loughlin, E.J., J.M. Brulc, **D.A. Antonopoulos**, and K.M. Kemner. (2010) "Electron shuttle effects on microbial community development under iron- and sulfate-reducing conditions." *13th International Symposium on Microbial Ecology*, Seattle, WA, August 22-27.
44. M.J. Kwon, **D.A. Antonopoulos**, M. Boyanov, J.M. Brulc, P. Long, B. Mishra, K. Skinner, K.M. Kemner, and E.J. O'Loughlin. (2010) "Electron donor dependent iron and sulfate reduction and microbial community development." *13th International Symposium on Microbial Ecology*, Seattle, WA, August 22-27.
45. Glass, E., D. Bartels, M. D'Souza, J.M. Brulc, K. Keegan, T. Paczian, A. Wilke, J. Wilkening, M.I. Boyanov, M.J. Kwon, E.J. O'Loughlin, K.A. Skinner, M. Domanus, P. Long, K.H. Williams, **D.A. Antonopoulos**, K.M. Kemner, and F. Meyer. (2010) "Metagenome analysis and microbial genome reconstructions from an UMTRA site sediment." *13th*

- International Symposium on Microbial Ecology*, Seattle, WA, August 22-27.
46. Brulc, J.M., K.P. Keegan, Y. Wang, D. Bartels, M. D'Souza, E. Glass, T. Paczian, A. Wilke, J. Wilkening, V.B. Young, L. Harrell, **D.A. Antonopoulos**, E.B. Chang, and F. Meyer. (2010) "Metagenomic assessment of microbial community reestablishment following gastrointestinal tract resectioning." *13th International Symposium on Microbial Ecology*, Seattle, WA, August 22-27.
 47. **Antonopoulos, D.A.**, M. Boyanov, J. Brulc, C. Giometti, E. Johnston, M. Kwon, P. Long, T. Marsh, M. McCormick, F. Meyer, R. Sanford, K. Skinner, K. Williams, D. Sholto-Douglas, E. O'Loughlin, and K. Kemner. (2011) "Microbial community development under sulfate- and iron-reducing conditions based on electron donor and electron shuttle amendment." *DOE-SBR 6th Annual PI Meeting 2011*, Washington, DC, April 26-28.
 48. Vital, M., C.R. Penton, V. Young, **D.A. Antonopoulos**, M. Sogin, H. Morrison, L. Harrell, E.B. Chang, Q. Wang, J. Cole, and J. Tiedje. (2011) "Temporal changes of bacterial butyrate functional gene communities in ulcerative colitis patients: a role for the gut microbiome in health and disease." *ASM General Meeting 2011*, New Orleans, LA, May 21-24.
 49. DePaolo, R.W., J. Brulc, S. Khakpour, B.J. Qin, W. Wang, J. Stencel, **D.A. Antonopoulos**, and B. Jabri. (2011) "TLR1 contributes to barrier function and Th17 cell priming during gastrointestinal Yersinia infection." *ASM General Meeting 2011*, New Orleans, LA, May 21-24.
 50. **Antonopoulos, D.A.**, S.L. O'Brien, K.P. Keegan, A. Ammar, B.S. Bates, J.M. Brulc, J.G. Caporaso, M. Domanus, M. D'Souza, R. Edwards, T. Eshoo, R.E. Gallery, A. Garoutte, E.M. Glass, J.D. Jastrow, R.H. Kao, K.M. Kemner, R. Knight, K.A. Skinner, R. Stevens, A. Wilke, J.R. Wilkening, R.M. Miller, and F. Meyer. (2011) "North American soil metagenomes cluster by ecosystem type and edaphic factors." *ASM General Meeting 2011*, New Orleans, LA, May 21-24.
 51. **Antonopoulos, D.A.**, J.M. Brulc, K.P. Keegan, D. Bartels, M. D'Souza, E. Glass, T. Paczian, Y. Wang, A. Wilke, J. Wilkening, V.B. Young, L. Harrell, E.B. Chang, and F. Meyer. (2011) "Microbial community reestablishment following gastrointestinal tract resectioning: shotgun metagenomics of the gut microbiome." *ASM General Meeting 2011*, New Orleans, LA, May 21-24.
 52. Stefka, A.T., T. Patton, M. Burrows, Y. Wang, **D.A. Antonopoulos**, E. Chang, and C.R. Nagler. (2011) "The commensal microbiota regulates susceptibility to allergic responses to food." *International Congress of Mucosal Immunology*, Paris, France, July 5-9.
 53. **Antonopoulos, D.A.** (2011) "North American soil metagenomes cluster by ecosystem type and edaphic factors." *2011 ESA Annual Meeting*, Austin, TX, August 7-12, 2011.
 54. **Antonopoulos, D.A.**, M. Boyanov, J. Brulc, C. Giometti, E. Johnston, M. Kwon, P. Long, T. Marsh, M. McCormick, F. Meyer, R. Sanford, K. Skinner, K. Williams, D. Sholto-Douglas, E. O'Loughlin, and K. Kemner. "Temporal monitoring of microbial community dynamics under iron- and sulfate-reducing conditions via 'now-generation' DNA sequencing-enabled molecular environmental microbiology." *DOE-SBR 7th Annual PI Meeting*, Washington, DC, April 30-May 2.
 55. Feehley, T.J., A. Stefka, P. Tripathi, **D. Antonopoulos**, E. Chang, B. Theriault, C. Nagler. (2012) "Commensal bacteria regulate Treg abundance in a gnotobiotic model of food allergy." *99th Annual Meeting of the American Association of Immunologists*, Boston, MA, May 4-8 2012.
 56. Tripathi, P., A. Stefka, T. Feehley, T. Patton, E. B. Chang, **D. Antonopoulos**, Z. Pei, C. Nagler. (2012) "Antibiotic induced alterations in the commensal microbiome reduce CD4+Foxp3+ Tregs in the colonic lamina propria and increase allergic responses to food." *99th Annual Meeting of the American Association of Immunologists*, Boston, MA, May 4-8, 2012.

57. Devkota, S., Y. Wang, M. Musch, V. Leone, **D. Antonopoulos**, B. Jabri, and E.B. Chang. (2012) "Dietary fat-induced taurocholic acid production promotes pathobiont and colitis in IL-10-/- mice." *Digestive Disease Week 2012*, San Diego, May 20-22, 2012.
58. O'Brien, S.L., S.M. Owens, J.G. Caporaso, J. Hampton-Marcell, J.D. Jastrow, E.R. Johnston, **D.A. Antonopoulos**, J.A. Gilbert, and F. Meyer. (2012) "Spatial structure of soil microbial communities from centimeter to ecosystem." *2012 ESA Annual Meeting*, Portland, OR, August 5-10, 2012.

Book chapters:

1. Morrison, M., K.E. Nelson, **D. Antonopoulos**, B. Cheng, E. Devillard, D.E. Goodheart, H.-S. Jun, V. Parisi, J.-S. Park, S.M. Qi, C. Reveneau, I.K.O. Cann, S. Daugherty, C.W. Forsberg, I. Hance, R.I. Mackie, W.C. Nelson, J.B. Russell, B.A. White, and D.B. Wilson. (2004) "New and emerging approaches to improve herbivore nutrition: rumen microbiology in the genomics era." *In: Proceedings of the Sixth International Symposium on the Nutrition of Herbivores*. (Eds. L. t'Mannetje, L. Ramirez-Aviles, C. Sandoval-Castro, and J.C. Ku-Vera). Universidad Autonoma de Yucatan. pp. 309-320.
2. Morrison, M., K.E. Nelson, **D.A. Antonopoulos**, B. Cheng, E. Devillard, D.E. Goodheart, H-S. Jun, V. Parisi, J-S. Park, S.M. Qi, C. Reveneau, I.K.O. Cann, S. Daugherty, C.W. Forsberg, I. Hance, R.I. Mackie, W.C. Nelson, J.B. Russell, B.A. White, D.B. Wilson. (2004) "Functional and comparative genomics of cellulolytic bacteria." *In: Biotechnology of Lignocellulose Degradation and Biomass Utilization*. (Eds. K. Shimada, S. Hoshino, K. Ohmiya, K. Sakka, Y. Kobayashi, and S. Karita). Uni Publishers Co., LTD. Tokyo, Japan.
3. **Antonopoulos, D.A.**, E.A. Bayer, and B.A. White. (2004) "Identification of cellulase components from a random-phase genome sequence of *Ruminococcus flavefaciens* FD-1." *In: Biotechnology of Lignocellulose Degradation and Biomass Utilization*. (Eds. K. Shimada, S. Hoshino, K. Ohmiya, K. Sakka, Y. Kobayashi, and S. Karita). Uni Publishers Co., LTD. Tokyo, Japan.
4. Galbraith, E.A., **D.A. Antonopoulos**, and B.A. White. (2008) "Suppressive subtractive hybridization as a tool for the identification of genetic diversity in an environmental metagenome." *In: Methods in Molecular Biology. Environmental Genomics*. (Ed. C. Martin). Humana Press. Totowa, New Jersey. PMID: 18642606
5. **Antonopoulos, D.A.**, and T.M. Schmidt. (2008) "Sequence-based characterization of microbes and microbial communities." *In: Prospects and Applications for Plant-Associated Microbes. A Laboratory Manual, Part A: Bacteria*. (Eds. S. Sorvari and A.M. Pirttilä). BioBien Innovations. Piikkiö, Finland.
6. **Antonopoulos, D.A.**, J.M. Brulc, A. Yannarell, and B.A. White. (2009) "Molecular methods to study complex microbial communities." *In: Food Borne Microbes: Shaping the Host Ecosystem*. (Eds. L-A Jaykus, H.H. Wang, and L.S. Schlesinger). ASM Press. Washington, DC.
7. **Antonopoulos, D.A.**, E.M. Glass, and F. Meyer. (2011) "Analyzing metagenomic data: inferring microbial community function with MG-RAST." *In: Metagenomics and its applications in agriculture, biomedicine, and environmental studies*. (Ed. R.W. Li). Nova Science Publishers. Hauppauge, NY.
8. Galbraith, E.A., **D.A. Antonopoulos**, K.E. Nelson, and B.A. White. (2011) "Suppressive subtractive hybridization reveals extensive horizontal transfer in the rumen metagenome." *In: Handbook of Molecular Microbial Ecology I: Metagenomics and Complementary Approaches*. (Ed. F.J. de Bruijn). Wiley/Blackwell.
9. O'Loughlin, E.J., M.I. Boyanov, **D.A. Antonopoulos**, and K. Kemner. (2011) "Redox processes affecting the speciation of technetium, uranium, neptunium, and plutonium in aquatic and terrestrial environments." *In: Aquatic Redox Chemistry*. (Ed. P. Tratnyek). ACS Books.

Other works that are publically available (websites, interviews, publications in the popular press, testimony, computer programs, protocols, reagents, inventions, patents not listed above, etc.)

- 2010 Interview for WBBM News Radio Chicago on NASA reporting novel arsenic-based lifeform
- 2011 Interview for Biotechniques “BGI joins Earth Microbiome Project” (<http://www.biotechniques.com/news/BGI-joins-Earth-Microbiome-Project/biotechniques-314489.html>)
- 2012 Interview for The University of Chicago “Bacterial frontier could yield future cures” (http://www.uchicago.edu/features/20120305_bacterial_frontiers_could_yield_future_cures/)

Works in review, in preparation, etc. not yet publically available [list ONLY if available for BSD review]

1. **Antonopoulos, D.A.**, S.L. O'Brien, K.P. Keegan, A. Ammar, B.S. Bates, J.M. Brulc, J.G. Caporaso, M. Domanus, M. D'Souza, R. Edwards, T. Eshoo, R.E. Gallery, A. Garoutte, C.S. Giometti, E.M. Glass, J.D. Jastrow, R.H. Kao, K.M. Kemner, R. Knight, K.A. Skinner, R. Stevens, A. Wilke, J.R. Wilkening, R.M. Miller, and F. Meyer. (2012) North American soil metagenomes cluster by biome and edaphic factors. In preparation.
2. Kwon, M.J., M.I. Boyanov, **D.A. Antonopoulos**, J.M. Brulc, K. Kemner, and E.J. O'Loughlin. (2012) Effects of sulfate reduction on Fe(III) (hydr)oxide reduction and microbial community development. In preparation.
3. Stefka, A.T., P. Tripathi, T. Feehley, K. McCoy, L. Yang, C.W. Nossa, Z. Pei, B. Theriault, **D. Antonopoulos**, E.B. Chang, and C.R. Nagler. (2012) Bacteria-induced Tregs protect against systemic allergic responses to food. In preparation.

FUNDING

Past:

1. USDA/CSREES 2004-35107-15023. PI: Antonopoulos, DA. Title: Impact of changing land use on microbial community genetic diversity in soil: a novel application of suppressive subtractive hybridization.” Total direct costs: \$110,000. Annual salary recovery or effort: 12 CM. Project period: 9/01/04-8/31/06.
2. NIH/NHGRI R01HG004906. PI: Schmidt, TM. Role: Co-Investigator of Subcontract (Chang [PI]). Title: “Cultivation of Phylogenetically Diverse Microaerophilic Bacteria from the Human Microbiome.” Total direct costs: \$45,303. Annual salary recovery or effort: 1.8 CM. Project period: 9/23/08-7/31/11.
3. NIH/NHGRI R21 HG004858. PI: Chang, EB. (“Biology and Pathobiology of GI Epithelial Cells; Digestive Disease Research Core Center”). Role: Co-Investigator. Title: “Development of Novel Technologies for Study of Human Colonic Mucosal-associated Microbes.” Total direct costs: \$125,000. Annual salary recovery or effort: 3.0 CM. Project period: 10/01/08-9/30/10.
4. NIH/NIDDK P30 DK42086. PI: Chang, EB. Role: PI on Digestive Disease Research Core Center Pilot and Feasibility Grant/New Investigator Award. Title: “Metatranscriptomic analysis of the active human microbiome: a systems-based approach to studying complex microbial communities.” Total direct costs: \$704,000. Annual salary recovery or effort: 3.6 CM. Project period: 12/1/08-11/30/09.

Current:

1. DOD W81XWH-08-GWIRP-IIRA. PI: Lin, H. Role: Co-Investigator. Title: “Small Intestine Microbial Community in Gulf War Illness.” Total direct costs: \$76,993. Annual salary recovery or effort: 1.2 CM. Project period: 08/01/10-07/31/13

2. NIH 1UH3DK083993-01. PI: Young, VB. Role: Investigator of Subcontract (Meyer [PI]). Title: "The Role of the Gut Microbiota in Ulcerative Colitis." Total direct costs: \$326,662. Annual salary recovery or effort: 0.6 CM. Project period: 06/24/09-07/31/13.
3. NIH 1R01HG005826-01. PI: Ismagilov, R. Role: Co-Investigator. Title: "Confining Single Cells to Enhance and Target Cultivation of Human Microbiome." Total direct costs: \$77,000. Annual salary recovery or effort: 0.5 CM. Project period: 08/01/11-07/31/13.

Pending:

1. NIH R01 DK097268. PI: Chang, EB. Role: Investigator. Title: "Dietary fat effects on gut microbes, host immune state and experimental colitis." Total direct costs: \$316,798. Annual salary recovery or effort: 1.2 CM. Project period: 12/01/12-11/30/17.

INVITED SPEAKING

- 2002 Invited speaker, "Comparative genomics of *Ruminococcus flavefaciens* using subtractive hybridization." *First Interim Meeting for the North American Consortium for Genomics of Fibrolytic Ruminant Bacteria*, TIGR, Baltimore, MD, March 10-13.
- 2009 Invited speaker, "MG-RAST: a web-based tool for the analysis of metagenomic data sets." *Association of Biomolecular Resource Facilities 2009 Meeting*, Memphis, TN, February 7-10.
- 2009 Invited speaker, "Soil microbial metagenomes track with ecosystem type: uncovering soil metabolic clusters." *First Annual Argonne Soils Workshop*, Argonne, IL, October 25-26.
- 2009 Invited speaker, "Uncovering soil metabolic clusters: application of second-generation DNA sequencing technology to environmental metagenomics." *1st Annual Chicago Center for Systems Biology (CCSB) Retreat, University of Chicago*, Chicago, IL, November 30, 2009.
- 2010 Invited speaker, "Microbial communities and ecosystem function: challenges of making white boxes out of black boxes." *Challenges in Environmental Microbiology Workshop*, Argonne, IL, April 26-27.
- 2011 Invited speaker, "Making maps: getting to know a microbial community." *USDA, National Animal Disease Center seminar*, Ames, IA, June 29.
- 2011 Invited speaker, "North American Soil Metagenomes Cluster by Ecosystem Type and Edaphic Factors". *2011 International Workshop on Subsurface Biogeochemistry*, KIST Gangneung Institute, Korea, October 21, 2011.
- 2012 Invited speaker, "Metagenomic-derived insights of microbial communities between soil biomes". *Association of Biomolecular Resource Facilities 2012 Meeting*, Orlando, FL, March 17-20.
- 2012 Invited speaker, "Nuts and bolts of DNA sequencing approaches and bioinformatics tools", in Workshop on "Answering Ecological Questions with Metagenomic Sequencing", *2012 ESA Annual Meeting*, Portland, OR, August 5-10.

INVITED, ELECTED, OR APPOINTED EXTRAMURAL SERVICE

- 2005-2007 Course coordinator and lecturer, Microbial Diversity Summer Course, Marine Biological Laboratory, Woods Hole, MA.
- 2008- Director, Enteric Microbiology Component, Digestive Diseases Research Core Center (DDRCC), The University of Chicago.
- 2009 Co-Lead, Systems and Computational Biology Strategic Initiative, Laboratory-Directed Research and Development Program, Argonne National Laboratory, Argonne, IL.

- 2009 Organizing Committee, First Annual Argonne Soils Workshop, Argonne National Laboratory, Argonne, IL.
- 2010 Grant Panel, US Department of Energy, "Role of microbial communities in carbon cycling".
- 2010 Co-Lead, Climate and Biogeosphere Interactions Strategic Initiative, Laboratory-Directed Research and Development Program, Argonne National Laboratory, Argonne, IL.
- 2010 Organizing Committee and Session Chair, Second Annual Argonne Soils Workshop, Argonne National Laboratory, Argonne, IL.
- 2011 Organizing Committee and Session Chair, Third Annual Argonne Soil Metagenomics Workshop, Bloomingdale, IL.
- 2012 Organizing Committee and Session Chair, Fourth Annual Argonne Soil Metagenomics Meeting, Bloomingdale, IL.
- Various Manuscript reviewer for Applied and Environmental Microbiology, BMC Microbiology, Environmental Microbiology, FEMS Microbiology Letters, mBio, Proceedings of the National Academy of Sciences, USA, The ISME Journal: Multidisciplinary Journal of Microbial Ecology

TEACHING

For Graduate programs (Ph.D.):

- 2009 Guest lecturer, Bana Jabri (Jan 13, 2009)
- 2011 Guest lecturer, IMMU 35500, Selected Topics in Immunology: Mucosal Immunology, Cathryn Nagler (May 13, 2011)

Other:

- 2009 Guest lecturer, Graduate course, Intestinal Bacteria in Health and Disease, Northwestern University, Downers Grove, IL Mae Ciancio (July 1, 2009)
- 2010 Guest lecturer, Graduate course, Intestinal Bacteria in Health and Disease, Northwestern University, Downers Grove, IL Mae Ciancio (July 28, 2010)
- 2011 Guest lecturer, Microbial Metagenomics Summer Course, Michigan State University, East Lansing, IL Thomas Schmidt
- 2011 Guest lecturer, Graduate course, Intestinal Bacteria in Health and Disease, Northwestern University, Downers Grove, IL Mae Ciancio (July 20, 2011)
- 2012 Guest lecturer, Microbial Metagenomics Summer Course, Michigan State University, East Lansing, IL Thomas Schmidt

Research trainees:

Medical (M.D.)

- 2009- Advisory committee member for Sushila Dalal, M.D., Department of Medicine, University of Chicago, Chicago, IL.

Graduate (Ph.D.)

- 2008-2012 Ph.D. Committee member for Suzanne Devkota, Committee on Molecular Metabolism and Nutrition, University of Chicago, Chicago, IL. Graduated 2012. Postdoctoral fellow at Harvard Medical School.
- 2009-2012 Ph.D. Committee member for Rebecca Dikow, Committee on Evolutionary Biology, University of Chicago, Chicago, IL. Graduated 2012.

Postdoctoral

- 2008-2011 Yunwei Wang, PhD (UofC). Presently Research Associate (Assistant Professor), Department of Medicine, University of Chicago, Chicago, IL.

- 2009-2010 Jennifer M. Brulc, PhD (Argonne). Presently Senior Scientist, The Bell Institute of Health & Nutrition, at General Mills, Inc., Minneapolis, MN.
- 2010-present Sarah L. O'Brien, PhD (Argonne). Postdoctoral fellow at Argonne National Laboratory, Argonne, IL.
- 2011- Vanessa Leone, PhD (UofC). Postdoctoral scholar at the University of Chicago, Chicago, IL.
- Other
2010 Ece Mutlu, M.D., Associate Professor of Medicine, Rush University Medical Center. Sabbatical visitor at Argonne National Laboratory, Argonne, IL.

SERVICE

University of Chicago

Leadership:

- 2008- Director, Enteric Microbiology Component, Digestive Diseases Research Core Center (DDRCC)

Extramural (not indicated above)

Leadership roles:

- 2009 Organizer, Introductory Training for Data Software Analysis Tools for the Genome Sequencer FLX / 454 System, sponsored by the Institute for Genomics and Systems Biology and Roche Applied Science, June 11, 2009
- 2010 Organizer, Microbial Ecology and Sequence Analysis Tutorial, January 7-8, 2010
- 2010-2011 Member, Ad Hoc Committee on the Environmental Sciences for the University of Chicago and Argonne National Laboratory, June 2010-July 2011