Marguerite Hatch, Ph.D.

Curriculum Vitae, 2019

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Research Areas of Interest:

- Mechanisms and control of electrolyte (Na^+, Cl^-, K^+, HCO^-_3, SO^-_4) and solute (including oxalate, urate, and short chain fatty acids) transport across intestinal epithelial membranes.
- Acid-base regulation and intracellular regulation of the Slc26a oxalate (and acid-base) anion exchangers including Slc26a1, Slc26a3, and Slc26a6.
- Angiotensin II regulation of intestinal electrolyte transport.
- Regulation of intestinal oxalate transport, oxalate metabolism, and oxalate homeostasis by the commensal bacterium *Oxalobacter sp*.
- Calcium oxalate nephrolithiasis
- Mechanisms of adaptive enteric excretion when renal function is compromised.
- Mechanisms underlying the development of kidney stone disease secondary to gastric bypass surgery for obesity.
- The contributions of adaptations in intestinal transport in resolving Metabolic Syndrome (Hypertension and Diabetes Type 2) post Roux En-Y Gastric Bypass Surgery (RYGB).
- Changes in Intestinal permeability that correlate with the onset of Type 1 Diabetes.

Educational Background -

University College Dublin, Ireland	B.Sc. (Honours) Microbiology (Major) Pharmacology (Minor).	1970-74
Trinity College Dublin, Ireland	Physiology, Ph.D. Thesis: "The Pathophysiology of Calcium Oxalate Nephrolithiasis".	1974-78
University of Arizona, Tucson, AZ	Gastroenterology Post-Doc	1978-82
Harvard Medical School, Boston	Physiology & Biophysics. Post-Doc	1982-83

Employment -

• Louisiana State University	Assistant Professor	1983-1987
• State University of New York (SUNY) at Brooklyn	Associate Professor	1987-1990
• University of California	Associate Professor	1990-2000
• University of California	Professor	02/2000
• Northwestern University	Associate Professor	2000-2001
• University of Florida	Associate Professor	2001-2011
• University of Florida	Professor	2011-present

Journal Peer-Reviewed Publications:

1. **Hatch, M.** 2019. Induction of enteric oxalate secretion by *Oxalobacter formigenes* in mice does not require the presence of either apical oxalate transport proteins Slc26a3 or Slc26a6. Urolithiasis (Submitted Dec, 2018).
2. Chamberlain, C., **Hatch, M.** and Garrett, T. 2019. Metabolomic and Lipidomic Characterization of Oxalobacter formigenes strains HC1 and OxWR by UHPLC-HRMS. Analytical and Bioanalytical Chemistry (Accepted Jan 23, 2019).
3. Whittamore J.M., Stephens, C.E., and **Hatch** M. 2019. Absence of the sulfate transporter SAT-1 (Slc26a1) has no impact on oxalate handling by mouse intestine and does not cause hyperoxaluria or hyperoxalemiaUrolithiasis. Am. J. Physiol. Jan 1:316(1):G82-G94.
4. Stephens, C.E., Whittamore, J.M. and **Hatch, M.** 2019. ^{125}Iodide as a surrogate tracer for epithelial chloride transport by the mouse large intestine *in vitro*. Exp. Physiol. (e-Print Jan, 2019).
5. Whittamore J.M., and **Hatch** M. 2018. Oxalate transport by the mouse intestine in vitro is not affected by chronic challenges to systemic acid-base homeostasis. Urolithiasis (Published online June 14, 2018).
6. **Hatch, M.,** Allison, M.J., Yu, F, and Farmerie, W. 2017. The Genome Sequence of *Oxalobacter formigenes* Strain HC-1. Genome A 5: #27.
7. **Hatch, M.,** Allison, M.J., Yu, F, and Farmerie, W. 2017. The Genome Sequence of *Oxalobacter formigenes* Strain OXCC13. Genome A 5: #28.
8. Whittamore J.M., and **Hatch M**. 2017. Loss of the Cl-/HCO3- exchanger, DRA (Slc26a3), enhances ileal sulfate absorption and alters sulfate homeostasis in a model of congenital chloride diarrhea. Am. J. Physiol. Gastrointest. Liver Physiol. Sep 1;313 (3):G166-G179.
9. Canales, B.K. and **Hatch, M**. 2017. *Oxalobacter formigenes* colonization normalizes oxalate excretion in a gastric bypass model of hyperoxaluria. (Surg Obes Relat Dis. 2017 Jul;13(7):1152-1157.
10. **Hatch, M.** 2017. Gut microbiota and oxalate homeostasis. Invited Perspective. Annals of Translational Medicine. 5 (2): 36.
11. Whittamore J.M., and **Hatch** M. 2017. The role of intestinal oxalate transport in hyperoxaluria and the formation of kidney stones in animals and man. Invited Review. Urolithiasis 45: 89-108.
12. **Hatch, M.** and Canales, B.K. 2016. The mechanistic basis of hyperoxaluria following gastric bypass in obese rats. Urolithiasis 44: 221-230.

13. Whittamore J.M., and **Hatch** M. 2015. Chronic metabolic acidosis reduces urinary oxalate excretion and promotes intestinal oxalate secretion in the rat. Urolithiasis. Nov;43(6):489-99 (Epub ahead of print 07/2015).
14. Whittamore J.M., Frost S.C., **Hatch** M. 2015. Effects of acid-base variables and the role of carbonic anhydrase on oxalate secretion by the mouse intestine in vitro. Physiol Rep. Feb 25;3(2).
15. Klimesova, K., Whittamore, J.M., and **Hatch, M**. 2015. *Bifidobacterium animalis* subsp. *lactis* decreases urinary oxalate excretion in a mouse model of Primary Hyperoxaluria. Urolithiasis. 43:107-117. e-pub October 2014.
16. **Hatch, M.** 2014. Intestinal Adaptations in Chronic Kidney Disease and the Influence of Gastric Bypass Surgery. Exp. Physiol. 99(9):1163-7.
17. Canales, B.K. and **Hatch, M.** 2014. Kidney stone incidence and metabolic urinary changes after modern bariaric surgery: Review of clinical studies, experimental studies, and preventative methods. Surg. Obes. Rel. Dis. oxalate. Surg Obes Relat Dis. 10(4):734-742
18. Freel, R.W., Whittamore, J.M., and **Hatch, M**. 2013. Transcellular oxalate and chloride absorption in the mouse intestine are mediated by the DRA anion exchanger (Slc26a3) and urinary oxalate excretion decreases in DRA knockout mice. Am. J. Physiol. Gastrointest. Liver Physiol epub 06/25/2013.
19. **Hatch, M**., and Freel, R.W. 2013. A human strain of *Oxalobacter* (HC-1) promotes enteric oxalate secretion in the small intestine of mice and reduces urinary oxalate excretion. Urolithiasis. 41(5):379-84, 2013.
20. Whittamore, J.M., Freel, R.W., and **Hatch, M**. 2013. Sulfate secretion and chloride absorption are mediated by the anion exchanger DRA (Slc26a3) in the mouse caecum. Am. J. Physiol. Gastrointest. Liver Physiol. Jul 15;305(2):G172-84.
21. Canales, BK, Ellen, J., Khan, S.R., and Hatch, M. 2013 Steatorrhea and hyperoxaluria occur after gastric bypass surgery in obese rats regardless of dietary fat or oxalate. J Urol. Sep;190(3):1102-9
22. Freel, R.W., and **Hatch, M**. 2012. Hyperoxaluric Rats Do Not Exhibit Alterations in Renal Expression Patterns of Slc26a1 (SAT1) mRNA or Protein. Urol Res. 40:647-654.
23. **Hatch, M**., Gjymishka, A., Salido, E.C., Allison, M.J., and Freel, R.W. 2011. Enteric oxalate elimination is induced and oxalate is normalized in a mouse model of Primary Hyperoxaluria following intestinal colonization with Oxalobacter. Am. J. Physiol. Gastrointest. Liver Physiol. 300: G461-G469. PMID: 21163900.
24. Li, N., **Hatch, M.,** Wasserfall, C., Douglas-Escobar, M., Atkinson, M., Schatz, D., and Neu, J. 2010. Butyrate and Type 1 Diabetes: Can We Fix the Intestinal Leak? J. Ped. Gastro. & Nutr. Liver Physiol. 297: G918-G929.
25. Freel, R.W., Morozumi, M., and **Hatch, M.** 2009. Parsing apical oxalate exchange in Caco-2BBe1 monolayers: siRNA knockdown of SLC26a6 reveals the role and properties of PAT-1. Am. J. Physiol. Gastrointest. Liver Physiol. 297: G918-G929.
26. **Hatch, M.,** and Freel, R.W. 2008. Increased colonic sodium absorption in rats with chronic renal failure is partially mediated by AT_1 receptor agonism. Am. J. Physiol. Gastrointest. Liver Physiol. 295: G348-G356.

27. **Hatch, M.,** and Freel, R.W. 2008. The roles and mechanisms of intestinal oxalate transport and oxalate homeostasis. Sem in Neph. 28 #2:143-1512.
28. Freel, R.W., Morozumi, M., and **Hatch, M**. siRNA Knockdown of SLC26A6 Reveals the Contribution and Some Properties of PAT-1 to Transepithelial Anion Transport, Particularly Oxalate, across Caco-2 Monolayers. NIH Workshop on Anion Transporters and Oxalate Homeostasis: From Genes to Diseases. Meeting Proceedings. 2008. pp 9.
29. Freel, R.W., and **Hatch, M**. 2008. Enteric oxalate secretion is not directly mediated by the human CFTR chloride channel. Urol Res. 36: 127-131.
30. **Hatch, M.,** and Freel, R.W. Physiological Interactions between *Oxalobacter* and the Transporting Mucosa. NIH Workshop on Anion Transporters and Oxalate Homeostasis: From Genes to Diseases. Meeting Proceedings. 2008. pp 17.
31. Freel, R.W., **Hatch, M**., Green, M., and Soleimani, M. 2007. Ileal oxalate absorption and urinary oxalate excretion are enhanced in slc26a6-null mice. Amer. J. Physiol. (Gastro.): 290 #4:G716-28.
32. **Hatch, M.** 2007. "Ethnic differences in relative risk of idiopathic calcium nephrolithiasis in North America" by Mente *et al*. 2007. J. Urol. 178 #5:1992-1997. *Invited Editorial Comment*.
33. **Hatch, M.,** Cornelius, J., Allison, M., Sidhu, H., Peck, A, and Freel, R.W. 2006. *Oxalobacter sp*. reduces urinary oxalate excretion by promoting enteric oxalate secretion. Kid. Int. 69 #4: 691-8.
34. Green, M., and Freel, R.W., and **Hatch, M**. 2005. Lipid peroxidation is not the underlying cause of renal injury in hyperoxaluric rats. Kid. Int. 68 #6: 2629-2638.
35. Green, M., **Hatch, M.,** and Freel, R.W. 2005. Ethylene Glycol Induces Hyperoxaluria Without Metabolic Acidosis in Rats. Am. J. Physiol. (Renal) 289 #3: F536-F543.
36. Neu, J., Reverte, C. M., Mackey, A. D., Liboni, K., Tuhacek-Tenace, L. M., **Hatch, M.,** Li, N., Caicedo, R.A., Schatz, D.A., and Atkinson, M. 2005. Changes in intestinal morphology and permeability in the biobreeding rat before the onset of type 1 diabetes. 2005. J. Pediatr. Gastroenterol. Nutr. 40 (#5): 589-95
37. Harris, A., Freel, R.W, and **Hatch, M.** 2004. Serum Oxalate in Human Beings and Rats as Determined with the Use of Ion Chromatography. J. Lab. Clin. Med. 144, 45-52.
38. **Hatch, M.,** and Freel, R.W. 2004. Intestinal Transport of an Obdurate Anion: Oxalate. Urol. Res. 33: 1-16.
39. Morozumi, M, Green, M., Freel, R.W. and **Hatch, M**. The effect of oxalate loading or acidified media on the expression of mRNA encoding candidate oxalate transporters. Proceedings of the 10th International Symposium on Urolithiasis in Hong Kong. Eds. M.D. Gohel and D.W. Au. Hong Kong. 2004. pp 178-180.
40. **Hatch, M.** and Freel, R.W. 2003. Angiotensin II Involvement in Enteric Oxalate Excretion in Rats with Chronic Renal Failure Induced by Hyperoxaluria. Urol. Res. 31: 426-432.
41. **Hatch, M.** and Freel, R.W. 2002. Renal and intestinal handling of oxalate following oxalate loading in rats. Am. J. Nephrol. 23, #1, 18-26.

42. **Hatch, M.** and Freel**,** R.W. 2001. Oxalate handling following oxalate loading in rats. Proceedings of the 9th European Symposium on Urolithiasis. Eds. Kok, D.J., Romijn, H.C., Verhagen, P., and Verkoelen, C.F. 2001. Shaker Publishing, Maastricht, The Netherlands. pp 112-116.
43. Freel, R.W., Vaziri, N.D., **Hatch, M.** 2000. Muscarinic down-regulation of cAMP-stimulated potassium secretion by rabbit distal colon. Pflug. Arch. 440:243-252.
44. **Hatch, M.** and Freel**,** R.W. Adaptive enteric oxalate excretion in chronic renal failure induced by hyperoxaluria. Proceedings of the 9th International Symposium on: Urolithiasis 2000. Eds. Rodgers, A.L., Hibbert, B.E., Hess, B., Khan, S.R., Preminger, G.M. University of Cape Town Publishing. 2000. pp 280-282.
45. **Hatch, M.**, Freel, R.W., Vaziri, N.D. 1999. AT_1 receptor up-regulation in intestine in chronic renal failure is segment specific. Pflugers Arch. 437;881-887.
46. **Hatch, M.**, Freel, R.W., Vaziri, N.D. 1999. Regulatory aspects of oxalate secretion in enteric oxalate elimination. J. Amer. Soc. Neph. 10;S324-S328.
47. **Hatch, M.**, Freel, R.W., Vaziri, N.D. 1998. Local up-regulation of angiotensin II receptors enhances potassium excretion in chronic renal failure. Am. J. Physiol. (Renal, Fluid & Elec. Physiol) 274;F275-F282.
48. **Hatch, M.**, Freel, R.W., Vaziri, N.D. 1998. Losartan antagonism of angiotensin II-induced potassium secretion across rat colon. Pflugers Arch. 436;717-724.
49. Freel, R.W., **Hatch, M.**, Vaziri, N.D. 1998. Conductive pathways for oxalate and chloride in rabbit ileal brush border membrane vesicles. Amer. J. Physiol. (Cell Physiol.) 275;C748-C757.
50. Freel, R.W., **Hatch, M.**, Vaziri, N.D. 1997. Cyclic AMP-dependent sulfate secretion by the rabbit distal colon a comparison with electrogenic chloride secretion. Am. J. Physiol. (Cell Physiol.) 273;C148-C160.
51. **Hatch, M.**, Freel, R.W., Vaziri, N.D. 1996. Effects of a specific angiotensin II receptor antagonist, losartan, on urate homeostasis and intestinal urate transport. J. Pharm. Exp. Ther. 276;187-193.
52. Vaziri, N.D., Freel, R.W., **Hatch, M.** 1995. Effect of chronic experimental renal insufficiency on urate metabolism. J. Amer. Soc. Neph. 6:1313-1317.
53. **Hatch, M.** The classification of two hyperoxaluric entities in hyperoxaluric stone-formers. In: Urolithiasis: Consensus and Controversies, eds: Rao, P.N., Kavanagh, J.P., Tiselius, H-G. 1995. pp 358-359.
54. **Hatch, M.**, and Vaziri, N.D. Diuretics and intestinal oxalate absorption. In: Urolithiasis: Consensus and Controversies, eds: Rao, P.N., Kavanagh, J.P. Tiselius. H-G. 1995. pp 347-348.
55. **Hatch, M.**, and Freel, R.W. 1995. Alterations in intestinal transport of oxalate in disease states. Scan. Microsc. 9:1121-1126.
56. **Hatch, M.**, Freel, R.W. 1995. Oxalate Transport across Intestinal and Renal epithelia. Chapter 11: Calcium Oxalates in Biological Systems. Boca Raton (S.R. Khan ed.). 1995. pp. 217- 238.
57. **Hatch, M.** and Vaziri, N.D. 1994. Do thiazides reduce intestinal oxalate absorption? An *in vitro* study using rabbit colon. Clin. Sci. 86, 353-357.
58. **Hatch, M.**, Freel, R.W., and Vaziri, N.D. 1994. Absorptive and secretory mechanisms of oxalate transport across the rabbit distal colon. Pflug. Arch. 426, 101-109.
59. **Hatch, M.** and Vaziri, N.D. 1994. Enhanced enteric excretion of urate in rats with chronic renal failure. Clin. Sci. 86, 511-516.

60. **Hatch, M.**, Freel, R.W. and Vaziri, N.D. Mechanisms for bi-directional oxalate transport across the large intestine. In: Ryall, R.L., ed. Urolithiasis 2. New York: Plenum Press. 1994. pp 13-15.
61. **Hatch, M.**, Freel, R.W., and Vaziri, N.D. 1994. Intestinal excretion of oxalate in chronic renal failure. J Amer Soc Neph. 5:1339-1343.
62. **Hatch, M.** 1993. Oxalate status in stone-formers: Two distinct hyperoxaluric entities. Urol. Res. 21, 55-59.
63. **Hatch, M.**, Freel, R.W., and Vaziri, N.D. 1993. Characteristics of oxalate and ion transport across the rabbit proximal colon. Pflug. Arch. 423, 206-212.
64. **Hatch, M.**, Schepers, A., Grunberger, I., and Godec, C.J. 1991. A retrospective analysis of the metabolic status of stoneformers. New York State J. Med. 91, 196-200.
65. **Hatch, M.** 1990. Spectrophotometric determination of oxalate in whole blood. Clin. Chim. Acta 193, 199-202.
66. **Hatch, M.** and Geaghan, J. 1989. A comparative study of the metabolism of short chain fatty acid by rat and rabbit intestinal epithelia. Comp. Biochem. Physiol., 92B, 779-786.
67. **Hatch, M.** and Freel, R.W. 1988. Electrolyte transport across the rabbit caecum: Sensitivity to transport inhibitors. Pflug. Arch. 411:333-338.
68. **Hatch, M.** 1987. Short chain fatty acid transport and their effects on ion transport by rabbit caecum. Am. J. Physiol., 253:G171-G178.
69. Ahmad, S., and **Hatch, M.** 1985. Hyperoxalemia in renal failure: Hemoperfusion and hemodialysis in primary oxalosis. Nephron, 41:235-240.
70. **Hatch, M.**, Freel, R.W., Goldner, A.M., and Earnest, D.L. 1984. Oxalate and chloride absorption by the rabbit colon: Sensitivity to metabolic and anion transport inhibitors. Gut, 25:232-237.
71. **Hatch, M.**, Freel, R.W., Goldner, A.M., and Earnest, D.L. 1983. Vanadate stimulation of electrogenic chloride secretion by the rabbit colon. Biochim. Biophys. Acta, 732:699-704.
72. Freel, R.W., **Hatch, M.**, Earnest, D.L., and Goldner, A.M. 1983. Dihydroxy bile salt-induced alterations in NaCl transport across the rabbit colon. Am. J. Physiol., 245:G808-G815.
73. Freel, R.W., **Hatch, M.**, Earnest, D.L., and Goldner, A.M. 1983. Role of tight junctional pathways in bile salt-induced increases in colonic permeability. Am. J. Physiol., 245:G816-G823.
74. **Hatch, M.**, Freel, R.W., Goldner, A.M., and Earnest, D.L. 1982. Effects of bile salts on active oxalate transport in the colon. In: The Colon and Nutrition, (H. Kasper and H. Goebell, eds.), MTP Press, Ltd. Lancaster. 1982. pp. 299-303.
75. **Hatch, M.**, Mulgrew, S., Bourke, E. and Costello, J. 1980. The effect of megadoses of ascorbic acid on serum and urinary oxalate. Eur. Urol., 6:166-169.
76. Freel, R.W., **Hatch, M.**, Earnest, D.L., and Goldner, A.M. 1980. Oxalate transport across the rat colon: A re-examination. Biochem. Biophys. Acta, 600:(3), 838-843.
77. Moriarity, M., Mulgrew, S., Mothersill, C., Malone, J., and **Hatch, M.** 1978. Some effects of administration of large doses of vitamin C in patients with skin carcinoma. Irish J. of Med. Science 47:166-170.
78. Costello, J., **Hatch, M.,** and Keogh, B. 1978. Urinary oxalate excretion during ascorbic loading. New England J. Med., 299:1469.
79. **Hatch, M.**, Bourke, E., and Costello, J. 1977. New enzymatic method for serum oxalate determination. Clinical Chemistry, 23:76-78.

80. Costello, J., **Hatch, M.,** and Bourke, E. 1976. An enzymatic method for the spectrophotometric measurement of oxalic acid. J. Lab. Clin. Med., 87:903-908.

Published Abstracts –

1. Chamberlain, CA; Leonard, CA; **Hatch, M**; Garrett, TJ. Kidney Stones and the Intestinal Microbiome: A Metabolomic Characterization of Oxalate Degrading Bacteria by UHPLC-HRMS. Poster Presentation, American Society for Mass Spectrometry (ASMS) 66th Annual Conference, June 2018, San Diego, CA. (Abstract Accepted).
2. Chamberlain, CA; Leonard, CA; **Hatch, M**; Garrett, TJ. Kidney Stones and the Intestinal Microbiome: A Metabolomic Characterization of Oxalate Degrading Bacteria by UHPLC-HRMS. Poster Presentation, 5th Annual Southeast Center for Integrated Metabolomics (SECIM) Metabolomics Symposium, April 2018, Gainesville, FL. (Abstract Accepted) 5
3. Chamberlain, CA; Leonard, CA; **Hatch, M**; Garrett, TJ. Kidney Stones and the Intestinal Microbiome: A Metabolomic Characterization of Oxalate Degrading Bacteria by UHPLC-HRMS. Oral Presentation, Research on Calculus Kinetics (R.O.C.K.) Society Annual Meeting, April 2018, Gainesville, FL. (Abstract Accepted)
4. Chamberlain, CA; Leonard, CA; **Hatch, M**; Garrett, TJ. Kidney Stones and the Intestinal Microbiome: A Metabolomic Characterization of Oxalate Degrading Bacteria by UHPLC-HRMS. Poster Presentation, University of Florida College of Medicine Celebration of Research, February 2018, Gainesville, FL.
5. **Hatch, M.** and Canales, B.K. 2016. "Do compensatory changes occur in intestinal glucose transport following gastric bypass in type 2 diabetic rats". Accepted and presented for EB2016 in San Diego, CA.
6. Canales BK, **Hatch M**. 2016 High dietary fat promotes oxalate transport in the rat colon independent of gastric bypass surgery. Journal of Urology;2016;193(4S):e885–e886.
7. Whittamore J.M., and **Hatch M**. . A cAMP dependent pathway promotes intestinal oxalate secretion". Accepted for a poster presentation at the UF College of medicine Celebration of Research. (*February 27, 2017*).
8. Whittamore J.M., and **Hatch M**. . A cAMP dependent pathway stimulates intestinal oxalate secretion". For an oral and poster presentation at EB2017 in Chicago, IL. (*April 22-26, 2017*).
9. Whittamore J.M., and **Hatch M**. . A cAMP dependent pathway regulates intestinal oxalate secretion". For an oral presentation at the ROCK (research on Calculus Kinetics) Society annual meeting in Madison, WI (*April 7-9, 2017*)
10. **Hatch, M.** and Canales, B.K. 2016. "Do compensatory changes occur in intestinal glucose transport following gastric bypass in type 2 diabetic rats". Exper. Biology. B288:321.
11. Canales, B.K. and **Hatch, M.** 2016. "High Dietary Fat Promotes Oxalate Transport in the Rat Colon Independent of Gastric Bypass Surgery". J. Urol. 193(4S):e885-e886.
12. Canales, B.K. and **Hatch, M.** 2015. "*Oxalobacter formigenes* Colonization Normalizes Oxalate Excretion in a Gastric Bypass Model of Hyperoxaluria". J. Urol.(4S):e373-e374.
13. Chastain-Gross, R. Wang, G.P., Li, E., **Hatch, M.,** and Canales, B.K. 2015. "*Oxalobacter formigenes* colonization in a hyperoxaluric rat model of gastric bypass increases beneficial gut bacteria as a keystone species". J. Urol. 193(4S):e413-e414.

14. Monsour C., Gregory, J.F., **Hatch, M.,** Khan, S.R, and Canales, B.K. 2015. "Calcium Is More Effective Than Vitamin B6 at Reducing Oxalate Excretion in a Gastric Bypass Model of Hyperoxaluria". J. Urol. 193(4S):e377.
15. Canales, B.K. and **Hatch, M**. 2015. "*Oxalobacter formigenes* Colonization Normalizes Oxalate Excretion in a Gastric Bypass Model of Hyperoxaluria". Accepted for ASN Oral Presentation (J Am Soc Nephrol 25:100A, 2014.) SA-OR086 .
16. Gross, R. Wang, G.P., Li, E., **Hatch, M**., and Canales, B.K. 2015. "*Oxalobacter formigenes* colonization in a hyperoxaluric rat model of gastric bypass increases beneficial gut bacteria as a keystone species". Accepted for AUA Moderated Poster 34-09 May 17 at the AUA in New Orleans, May 15-19, 2015.
17. Canales, BK, Monsour, C., Khan, SR., Hatch, M., Gregory, J. The effect of calcium and vitamin B6 supplementation on oxalate excretion in a gastric bypass model of hyperoxaluria. 2014: JASN 25;647A.
18. Getachew, H., Klimesova, K., Whittamore, J.M., and **Hatch, M**. 2014. "Intestinal *Bifidobacterium animalis subsp. lactis* decreases urinary oxalate excretion in a mouse model of primary Hyperoxaluria". Presented at the NIH Workshop on: "Host-Microbiota Interactions: How host physiology and disease pathophysiology are affected by the Gut Microbiota". September 9-10, 2014 in Bethesda MD.
19. Whittamore, J.M., Freel, R.W., and **Hatch, M**. Acid-base regulation of intestinal oxalate transport. Exp. Biol. 2014 in San Diego, CA.
20. Canales, B. **Hatch, M.** Hypovolemia, Not Hyperoxaluria, Causes Nephropathy Following Gastric Bypass in Obese Rats. Amer. Soc. Nephrol. #3906 (accepted) Atlanta, Nov 7-9, 2013.
21. Whittamore, J.M., Freel, R.W., and **Hatch, M**. Sulfate secretion and chloride absorption are mediated by the anion exchanger DRA (slc26a3). UF First Annual Postdoctoral Research Symposium, April, 2013.
22. **Hatch, M.**, Salido, E., Allison, M.J., Freel, R.W. *Oxalobacter formigenes* derives oxalate from mammalian endogenous sources by inducing epithelial transport pathways mediating intestinal oxalate secretion. 3rd ASM Conference on "Beneficial Microbes", October 2010, Miami, FL.
23. Moore, S**.**, **Hatch, M.,** Chadda, A., Bergeron, B., Reinhard, M., and Canales, B. Hyperoxaluria and nephropathy in obese rats following RYGB. J. Urol. 2012; 185(S4):837.
24. Canales, BK, Ellen, J, Khan, SR, **Hatch, M**.Steattorrhea and hyperoxaluria occur after gastric bypass surgery in obese rats regardless of dietary fat or oxalate. J. Urol; 184(S4):e2104.
25. Grujic, D., Salido, E.C., McGrath, M., Patel, R.J., Krushinskie, D.P., Khalaf, N.N., Jung, C., Mandapati, S., Langman, C. B., **Hatch, M**., Torres, A., Shenoy, B.C., Margolin, A.L. Hyperoxaluria regardless of cause is reduced and nephrocalcinosis prevented with crystalline oxalate degrading enzyme in animal models. 2008. Urol. Res., 36:193.
26. **Hatch, M.,** and Freel, R.W. Oxalate handling is altered in rats with metabolic acidosis. 2008. Urol. Res., 36:211.
27. **Hatch, M.,** and Freel, R.W. **2008**. Physiological Interactions between Oxalobacter and the Transporting Mucosa. NIH Workshop on Anion Transporters and Oxalate Homeostasis: From Genes to Diseases. Meeting Proceedings.
28. Freel, R.W., Morozumi, M., and **Hatch, M**. **2008.** siRNA Knockdown of SLC26A6 Reveals the Contribution and Some Properties of PAT-1 to Transepithelial Anion Transport,

Particularly Oxalate, across Caco-2 Monolayers. NIH Workshop on Anion Transporters and Oxalate Homeostasis: From Genes to Diseases. Meeting Proceedings.

29. Freel, R.W., and **Hatch, M**. Knockdown of SLC26A6 in Caco-2 Monolayers Reveals PAT-1 Symmetrically Mediates Apical Oxalate Exchange. 2008. Urol. Res., 36: 211-212.
30. **Hatch, M.** and Freel, R. W. The Impact of Disease States on Intestinal Oxalate Handling. 5th International Urological Research Forum, January 2005, Okinawa, Japan. Abstract. p 38.
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