

**ASHISH K TIWARI, MD**

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**CURRENT PROFESSIONAL POSITION**

Gastroenterologist

Graves Gilbert Clinic, Bowling Green, KY

**BOARD CERTIFICATIONS**

- Board-certified in Internal Medicine (2014)
- Board-certified in Gastroenterology (2017)

**SKILLS AND PROFESSIONAL INTERESTS**

- General gastroenterology
- Inherited gastrointestinal cancer syndromes
- Inflammatory bowel diseases (IBD- Crohn's and ulcerative colitis)
- Functional gastrointestinal disorders such as irritable bowel syndrome (IBS)
- Diagnostic and therapeutic colonoscopy, upper endoscopy and video capsule endoscopy

**EDUCATION**

- Medical school (2002-2008): All India Institute of Medical Sciences (AIIMS), New Delhi, India
- Internship and Internal Medicine Residency (2011-2014): Michigan State University (MSU), East Lansing, MI
- Gastroenterology fellowship (2014-2017): Boston University School of Medicine, Boston, MA

**PREVIOUS WORK EXPERIENCE**

- 2008-2011: Post-Doctoral research fellow at Northwestern University, Chicago, IL

**HONORS AND AWARDS**

- David Greenbaum, MD Emerging Leader Award presented by department of Internal Medicine at Michigan State University, East Lansing, MI
- Inducted into Alpha Omega Alpha (A<sup>Λ</sup>A) Medical Honor Society

- Outstanding Resident in Research Award presented by department of Internal Medicine at Michigan State University, East Lansing, MI
- Outstanding Clinical Resident Award, Internal Medicine Residency Program, Michigan State University, East Lansing, MI

#### PROFESSIONAL AND SOCIETY MEMBERSHIPS

- Alpha Omega Alpha (A<sup>∧</sup>A) Medical Honor Society
- American College of Gastroenterology (ACG)

#### PUBLICATIONS

##### **Book Chapters**

1. Rex D, Tiwari AK. Areas of future research. Colorectal Cancer Screening: Quality and Benchmarks. Aasma Shaukat, John L. Allen. New York: Springer, 2015. 193-201. Print.

##### **Research Articles (Peer-Reviewed Journals)**

1. Tiwari AK, Crawford SE, Radosevich A, Wali RK, Stypula Y, Kunte DP, Mutyal N, Ruderman S, Gomes A, Cornwell ML, DeLaCruz MA, Brasky J, Gibson TP, Backman V, Roy HK. (2011). Neo-angiogenesis and the premalignant micro-circulatory augmentation of early colon carcinogenesis. Cancer letters. 2011 Jul 28; 306(2): 205-13. PMID: 21493000
2. Tiwari AK, Laird-Fick HS, Wali RK, Roy HK; Surveillance for Gastrointestinal Malignancies. World J Gastroenterology. 2012 Sep 7;18(33):4507-16. PMID: 22969223
3. Tiwari AK, Roy HK. Progress against Cancer (1971-2011): How far have we come? Journal of Intern Med (JIM). 2012 April; 271(4):392-9. PMID: 21950375
4. Tiwari AK. Comment on “Urinary incontinence in young nulligravid women”. Ann Intern Med. 2013 Jan 15;158(2):138-9. PMID: 23318321
5. Tiwari AK, Bierhals A, Wang JS. An uncommon cause of post-prandial nausea and vomiting: Superior Mesenteric Syndrome-Image of the month. Gastroenterology. 2013 Jul 27. pii: S0016-5085(13)00875-5. doi: 10.1053/j.gastro.2013.06.004. PMID: 23900107
6. Tiwari AK, Roy HK, Lynch HT Lynch Syndrome in the 21st Century: Clinical Perspectives. Quarterly Journal of Meedicine (QJM). 2015 Jul 29 [Epub ahead of print]. PMID: 26224055
7. Joshi S, Tiwari AK, Mondal B, Sharma A. (2011). Oncoproteomics. Clin Chim Acta. 2011 Jan 30; 412(3-4): 217-26. PMID: 20955692
8. Gandhi SR, Tiwari AK, Kunte DP, DeLaCruz MA, Stypula Y, Gibson T, Brasky J, Backman V, Wali RK, Roy HK. Association of stem-like cells in gender-specific chemoprevention against intestinal neoplasia in MIN mouse. Oncol Rep. 2011 Nov. 26(5); 1127-32. PMID: 21769438
9. MacPhail ME, Hardacker KA, Tiwari A, Vemulapalli KC, Rex DK. Intraprocedural cleansing work during colonoscopy and achievable rates of adequate preparation in an open-access endoscopy unit. Gastrointest Endosc. 2014 Jul 3. pii: S0016-5107(14)01437-0. doi: 10.1016/j.gie.2014.05.002.

10. An I, Tiwari AK, Ameda S, Laird-Fick H. Autoimmune hepatitis: Diagnostic dilemma in the setting of suspected iron overload. Case Reports in Gastroenterology. 2013;2013:872987. doi: 10.1155/2013/872987. Epub 2013 Aug 19. PMID: 24024049
11. Laird-Fick HK, Tiwari AK, Narayanan S, Qin Y, Vodnala D, Bhutani M. Comorbid myxoma and CLL: not just a coincidence? Case Report in Oncological Medicine. 2014;2014:142746. doi: 10.1155/2014/142746. Epub 2014 Apr 29. PMID: 24868472
12. Roy HK, Koetsier J, Tiwari AK, Joshi S, Kunte DP, Ward T, Gandhi S, Wali RK. Involvement of p21 cip1/waf1 on the anti-proliferative effects of polyethylene glycol in colon carcinogenesis. Int Journal of Oncology. 2011 Feb; 38(2):529-36. PMID: 21170505
13. Damania D, Subramanian H, Tiwari AK, Stypula Y, Pradhan P, Roy HK, Backman V. Role of cytoskeleton in controlling the disorder strength of cellular nanoscale architecture. Biophys J. 2010 Aug 4;99(3):989-996; PMID: 20682278
14. Mutyal NN, Radosevich AJ, Tiwari AK, Weiss M, Stypula Y, Wali RK, Kunte DP, Shea LD, Roy HK, Backman V. Biological mechanisms underlying structural changes induced by colorectal field carcinogenesis measured with low-coherence enhanced backscattering (LEBS) spectroscopy. PLoS One. 2013 Feb;8(2): e57206. doi: 10.1371/journal.pone.0057206. Epub 2013 Feb 19. PMID: 23431406
15. Wali RK, Kunte DP, De La Cruz M, Tiwari AK, Brasky J, Weber CR, Gibson TP, Patel A, Savkovic SD, Brockstein B, Roy HK. Topical Polyethylene Glycol as a Novel Chemopreventive Agent for Oral Cancer via Targeting of Epidermal Growth Factor Response. PLoS One. 2012 June; 7(6):e38047. Epub 2012 Jun 4; PMID: 22675506
16. Yadava M, Vanaik S, Tiwari AK, Patel P, Beasley M, Laird-Fick H. Prevention of Sudden Cardiac Death in the Athlete: A Review of the Current Evidence and Recommendations. The International Journal of Sport and Society, 2013;3(2):161-168.
17. Roy HK, DelaCruz M, Wali RK, Subramaniyan P, Tiwari AK, Kunte DP, Backman V. Nano-architectural Alterations in Mucus Layer Fecal Colonocytes in Field Carcinogenesis: Potential for Screening. Cancer Prev Res (Phila). 2013 Aug 27. [Epub ahead of print]. PMID: 23983085
18. Khunger M, Kumar U, Roy HK, Tiwari AK. Dysplasia and cancer screening in 21<sup>st</sup> century. APMIS. 2014 Jun 7. doi: 10.1111/apm.12283. [Epub ahead of print] PMID: 24910362
19. Wali RK, Hensing TA, Ray DW, Dela Cruz M, Tiwari AK, Radosevich A, Jepeal L, Fernando HC, Litle VR, Charlot M, Momi N, Backman V, Roy HK. Buccal microRNA dysregulation in lung field carcinogenesis: Gender-specific implications. Int J Oncol. 2014 Jun 11. doi: 10.3892/ijo.2014.2495. [Epub ahead of print] PMID: 24919547
20. Radosevich A, Turzhitsky VM, Mutyal NN, Rogers JD, Stoyneva V, Tiwari AK, De La Cruz M, Kunte DP, Wali RK Roy HK, Backman V. Depth-resolved measurement of mucosal microvascular blood content using Low-coherence Enhanced Backscattering Spectroscopy. Biomed Opt Express. 2010 Oct 20;1(4):1196-1208; PMID: 21258541
21. Cruz MD, Ledbetter S, Chowdhury S, Tiwari AK, Momi N, Wali RK, Bliss C, Huang C, Lichtenstein D, Bhattacharya S, Varma-Wilson A, Backman V, Roy HK. Metabolic

reprogramming of the premalignant colonic mucosa is an early event in carcinogenesis. Oncotarget. 2017 Mar 28;8(13):20543-2055; PMID: 28423551

22. Soliman ML, Tiwari A, Zhao Q. Coexisting tubular adenoma with a neuroendocrine carcinoma of colon allowing early surgical intervention and implicating a shared stem cell origin. World J Gastroenterol. 2017 Feb 14;23(6):1106-1112. doi: 10.3748/wjg.v23.i6.1106. PMID: 28246485
23. Wali RK, Momi N, Dela Cruz M, Calderwood AH, Stypula-Cyrus Y, Almassalha L, Chhaparia A, Weber CR, Radosevich A, Tiwari AK, Latif B, Backman V, Roy HK. Higher Order Chromatin Modulator Cohesin SA1 Is an Early Biomarker for Colon Carcinogenesis: Race-Specific Implications. Cancer Prev Res (Phila). 2016 Nov;9(11):844-854. Epub 2016 Aug 22. PMID: 27549371

#### PRESENTATIONS AT INTERNATIONAL MEETINGS

(Only First Author Presentations mentioned)

##### **Oral presentation**

- Tiwari AK, Roy HK, Backman V et al. Partial Wave Spectroscopic Microscopy: A Novel Tool to Assess Perturbation in the Cellular Transcriptional Activity During Colon Carcinogenesis. DDW-2013, Orlando

##### **Poster Presentations**

- Tiwari AK, Roy HK, Backman V et al. Functional Characterization of SWI/SNF Chromatin Remodeling Complex Genes through Optical Interrogation of Nuclear Chromatin Nanoarchitecture (Presidential Poster of Distinction), DDW-2013, Orlando
- Tiwari AK, Roy HK et al. Progressive Loss of ARID1a (P270) Expression During Early Stages of Colorectal Carcinogenesis is a Significant Determinant of the Colonic Epithelium Phenotype; poster presentation at DDW-2013, Orlando
- Tiwari AK, Wali RK, Roy HK et al. Histopathological Features and Molecular Determinants of The Gender Paradox in Colorectal Carcinogenesis, American College of Gastroenterology (ACG) annual meeting-2012, Las Vegas
- Tiwari AK, Backman V, Roy HK et al. Nanocytomics-Based Assessment of Cellular Transcriptional Activity: A Novel Risk-Stratification Tool for Colorectal Cancer, American College of Gastroenterology (ACG) annual meeting-2012, Las Vegas
- Tiwari AK, Backman V, Roy HK et al. Nanocytomics as a Novel Modality for Determining Transcriptional Activity (Presidential Poster of Distinction), DDW-2012, San Diego
- Tiwari AK, Roy HK et al. Prolonged Exposure to Secondary Bile Acids Leads to CDX2 Mediated Downregulation of pERK Pathway and CDX2 Independent Activation of pAKT Pathway in Colon Cancer Cells, DDW-2011, Chicago
- Tiwari AK, Roy HK et al. Mutual Regulation of Expression Between MUC4 and CDX2 in Colon Cancer Cells, DDW-2011, Chicago

- Tiwari AK, Roy HK et al. Superoxide Dismutase 2 (Sod2) is Overexpressed at an Early Stage During Colorectal Carcinogenesis: A Putative Target for Celecoxib Chemoprevention, DDW-2011, Chicago
- Tiwari AK, Backman V, Roy HK et al. Imaging Nuclear Compaction With Partial Wave Spectroscopy for Detection of Early Carcinogenesis: Role of ARID1A, DDW-2011, Chicago
- Tiwari AK, Roy HK et al. The Gender Paradox in Colorectal Carcinogenesis: Modulation by CDX2 and VEGF, DDW-2011, Chicago
- Tiwari AK, Backman V, Roy HK et al. Role of Angiogenesis in the Premalignant Micro-Circulatory Augmentation in Colon Carcinogenesis. American Association for Cancer Research (AACR) 101st Annual Meeting-2010, Washington DC
- Tiwari AK, Roy HK et al. MUC4 and AKT/ $\beta$ -Catenin Mediated Control of Cell Proliferation in Early Colon Carcinogenesis (Presidential Poster of Distinction), DDW-2010, New Orleans
- Tiwari AK, Backman V, Roy HK et al. Increased Mucosal Micro-Circulation in Colonic Field Carcinogenesis is Mediated Through Neo-Vascularization: Modulation by Pro and Anti-Angiogenic Factors, DDW-2010, New Orleans
- Tiwari AK, Roy HK et al. Mechanisms of CDX2 Suppression in Colorectal Carcinogenesis: Role of Deoxycholate-MUC 4 Signaling Cascade, DDW-2010, New Orleans
- Tiwari AK, Roy HK et al. Deoxycholic Acid Dependent Regulation of CDX2 Expression Has a Role in Gender Related Issues During Colorectal Carcinogenesis, DDW-2010, New Orleans
- Tiwari AK, Roy HK et al. MUC4: A Potential Biomarker for Early Detection of Colorectal Cancer. Early Detection Research Network (EDRN) conference-2009, Bethesda

#### PRESENTATIONS AT REGIONAL/NATIONAL MEETINGS

(Only First Author Presentations mentioned)

##### **Oral presentations**

- Tiwari AK, Backman V, Roy HK et al. Partial Wave Spectroscopic Microscopy: A Novel Tool to Assess Perturbation in the Cellular Transcriptional Activity. American College of Physicians (ACP), Michigan chapter-2013, Troy, MI (*second place in basic research category*)
- Tiwari AK, Backman V, Roy HK et al. Nanocytomics: A Novel Spectroscopic Modality For Cancer Risk Stratification. American College of Physicians (ACP) Michigan Chapter Annual Scientific Meeting-2012, Traverse City, MI (*Third place in oral presentation category*)
- Tiwari AK, Backman V, Roy HK et al. Nanocytomics-based assessment of cellular transcriptional activity for cancer risk-stratification and drug-responsiveness. Mid-Michigan Regional Research Day- 2012, East Lansing, MI (*Second place in oral presentation category*)

##### **Poster Presentations**

- Tiwari AK, Backman V, Roy HK et al. Risk stratification for cancers through spectroscopic interrogation of mucosa. American College of Physicians (ACP), Michigan chapter-2012, Dearborn, MI (*First place in Evidence-Based medicine category*)

- Tiwari AK, Laird-Fick HK et al. Infective endocarditis masquerading as punctate infarcts in an afebrile patient with dizziness. Mid-Michigan Regional Research Day- 2012, East Lansing

#### PUBLISHED ABSTRACTS

1. Tiwari AK, Subramanian H, Maneval CD, Wali RK, Backman V, Roy HK. Partial Wave Spectroscopic Microscopy: A Novel Tool to Assess Perturbation in the Cellular Transcriptional Activity During Colon Carcinogenesis; *Gastroenterology*, May 2013 (Volume 144, Issue 5, Supplement 1, Page S-175)
2. Tiwari AK, Subramanian H, Maneval CD, Wali RK, Backman VK, Roy HK. Functional Characterization of SWI/SNF Chromatin Remodelling Complex Genes Through Optical Interrogation of Nuclear Chromatin Nanoarchitecture; *Gastroenterology*, May 2013 (Volume 144, Issue 5, Supplement 1, Page S-525)
3. Tiwari AK, Wali RK, Backman V, Roy HK. Progressive Loss of ARID1A (P270) Expression During Early Stages of Colorectal Carcinogenesis Is a Significant Determinant of the Colonic Epithelium Phenotype; *Gastroenterology*, May 2013 (Volume 144, Issue 5, Supplement 1, Pages S-285-S-286)
4. Tiwari AK, Subramanian H, Gibson TP, DeLaCruz M, Wali RK, Backman V, Roy HK. Nanocytomics as a novel modality for determining transcriptional activity; *Gastroenterology* 1 May 2012 (volume 142 issue 5 Page S-337 DOI: 10.1016/S0016-5085(12)61271-2)
5. Tiwari AK, Brasky J, Gibson TP, DeLaCruz MA, Kunte DP, Wali RK, Subramanian P, Roy HK. Prolonged Exposure to Secondary Bile Acids Leads to CDX2 Mediated Downregulation of pERK Pathway and CDX2 Independent Activation of pAKT Pathway in Colon Cancer Cells; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Page S-832 DOI: 10.1016/S0016-5085(11)63451-3)
6. Tiwari AK, Kunte DP, Brasky J, Gibson TP, DeLaCruz MA, Subramanian P, Wali RK, Roy HK. Mutual Regulation of Expression Between MUC4 and CDX2 in Colon Cancer Cells; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Page S-829 DOI: 10.1016/S0016-5085(11)63435-5)
7. Tiwari AK, Joshi S, Brasky J, DeLaCruz MA, Gibson TP, Kunte DP, Subramanian P, Wali RK, Roy HK. Superoxide Dismutase 2 (Sod2) is Overexpressed at an Early Stage During Colorectal Carcinogenesis: A Putative Target for Celecoxib Chemoprevention; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Page S-343 DOI: 10.1016/S0016-5085(11)61394-2)
8. Tiwari AK, Subramanian H, Kunte DP, DeLaCruz MA, Wali RK, Damania D, Stypula Y, Gibson TP, Brasky J, Subramanian P, Backman V, Roy HK. Imaging Nuclear Compaction With Partial Wave Spectroscopy for Detection of Early Carcinogenesis: Role of ARID1A; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Page S-765 DOI: 10.1016/S0016-5085(11)63175-2)
9. Tiwari AK, Wali RK, DeLaCruz MA, Kunte DP, Gibson TP, Brasky J, Subramanian P, Roy HK. The Gender Paradox in Colorectal Carcinogenesis: Modulation by CDX2 and VEGF;

Gastroenterology 1 May 2011 (volume 140 issue 5 Pages S-816-S-817 DOI: 10.1016/S0016-5085(11)63380-5)

10. Tiwari AK, Wali RK, DeLaCruz M, Roy HK. Histopathological Features and Molecular Determinants of The Gender Paradox in Colorectal Carcinogenesis; American Journal of Gastroenterology. October 2011 (volume 107 supplement 1 Pages S-786-S787)
11. Tiwari AK, Subramanian H, Backman V, Roy HK. Nanocytomics-Based Assessment of Cellular Transcriptional Activity: A Novel Risk-Stratification Tool for Colorectal Cancer; American Journal of Gastroenterology October 2011 (volume 107 supplement 1 PageS790)
12. Tiwari AK, Crawford S, Ruderman S, Stypula Y, Wali RK, Gandhi SR, DeLaCruz MA, Kunte DP, Ward TP, Backman V, Roy HK. Increased Mucosal Micro-Circulation in Colonic Field Carcinogenesis is Mediated Through Neo-Vascularization: Modulation by Pro and Anti-Angiogenic Factors; Gastroenterology 1 May 2010 (volume 138 issue 5 Page S-735 DOI: 10.1016/S0016-5085(10)63385-9)
13. Tiwari AK, Kunte DP, Wali RK, Ward TP, DeLaCruz MA, Stypula Y, Batra SK, Roy HK. MUC4 and AKT/ $\beta$ -Catenin Mediated Control of Cell Proliferation in Early Colon Carcinogenesis; Gastroenterology 1 May 2010 (volume 138 issue 5 Pages S-731-S-732 DOI: 10.1016/S0016-5085(10)63367-7)
14. Tiwari AK, Kunte DP, Ward TP, Gandhi SR, Wali RK, Batra SK, Roy HK. Mechanisms of CDX2 Suppression in Colorectal Carcinogenesis: Role of Deoxycholate-MUC 4 Signaling Cascade; Gastroenterology 1 May 2010 (volume 138 issue 5 Pages S-250-S-251 DOI: 10.1016/S0016-5085(10)61143-2)
15. Tiwari AK, Joshi S, Wali RK, Gandhi SR, DeLaCruz MA, Koetsier J, Ward TP, Stypula Y, Roy HK. Deoxycholic Acid Dependent Regulation of CDX2 Expression Has a Role in Gender Related Issues During Colorectal Carcinogenesis; Gastroenterology 1 May 2010 (volume 138 issue 5 Page S-506 DOI: 10.1016/S0016-5085(10)62337-2)
16. Brasky J, Tiwari AK, Gandhi SR, Kunte DP, Stypula Y, Wali RK, Ward TP, Roy HK. The Role of Transketolase-Like Proteins During Early Stages of Colorectal Carcinogenesis; Gastroenterology 1 May 2010 (volume 138 issue 5 Page S-508 DOI: 10.1016/S0016-5085(10)62347-5)
17. Gandhi SR, Tiwari AK, Ward TP, DeLaCruz MA, Stypula Y, Wali RK, Roy HK. The Differential Association Between Gender and Initiation Versus Progression Phases of Colon Carcinogenesis; Gastroenterology 1 May 2010 (volume 138 issue 5 Pages S-506-S-507 DOI: 10.1016/S0016-5085(10)62339-6)
18. Ward TP, Tiwari AK, Kunte DP, DeLaCruz MA, Stypula Y, Gandhi SR, Wali RK, Roy HK. Combination Chemopreventive Therapy Against Colorectal Cancer With Polyethylene Glycol and Vitamin D: Role of Vitamin D Receptor and Cellular Genetic Composition; Gastroenterology 1 May 2010 (volume 138 issue 5 Page S-352 DOI: 10.1016/S0016-5085(10)61622-8)
19. Stypula Y, Mutyal N, Turzhitsky V, Cornwell ML, Wali RK, Tiwari AK, Crawford S, Backman V, Roy HK. Biophotonic Detection of Colonic Field Carcinogenesis Spectral Slope

Represents Fundamental Alterations in Crypt Architecture; *Gastroenterology* 1 May 2010 (volume 138 issue 5 Page S-283 DOI: 10.1016/S0016-5085(10)61301-7)

20. Gandhi SR, Kunte DP, DeLaCruz MA, Tiwari AK, Ward TP, Stypula Y, Wali RK, Roy HK. Gender Predilection for Stem Cell Targeting by Celecoxib: Implications for Chemoprevention; *Gastroenterology* 1 May 2010 (volume 138 issue 5 Page S-349 DOI: 10.1016/S0016-5085(10)61606-X)
21. DeLaCruz MA, Wali RK, Kunte DP, Tiwari AK, Ward TP, Gandhi SR, Stypula Y, Roy HK. Mucus Layer Isolation of Fecal Colonocytes in Rats: A Novel Biomarker Platform for Detecting Field Carcinogenesis; *Gastroenterology* 1 May 2010 (volume 138 issue 5 Page S-288 DOI: 10.1016/S0016-5085(10)61326-1)
22. Gandhi SR, Patel AC, Ward TP, DeLaCruz MA, Tiwari AK, Roy HK, Wali RK. Targeting Epidermal Growth Factor Receptor With Polyethylene Glycol: Applications for Digestive Cancer Prevention; *Gastroenterology* 1 May 2010 (volume 138 issue 5 Pages S-348-S-349 DOI: 10.1016/S0016-5085(10)61605-8)
23. Roy HK, Damania D, Wali RK, Subramanian H, Kunte DP, DeLaCruz MA, Tiwari AK, Backman V. Partial Wave Spectroscopy Microscopic (PWS) Analysis of Fecal Colonocytes for Field Carcinogenesis Detection: A Novel Modality for Colorectal Cancer (CRC) Screening; *Gastroenterology* 1 May 2010 (volume 138 issue 5 Page S-194 DOI: 10.1016/S0016-5085(10)60879-7)
24. Koetsier J, Ward TP, Tiwari AK, Kunte DP, Gandhi SR, DeLaCruz MA, Roy HK, Wali RK. Involvement of p21Cip1/Waf1 on the Anti-Proliferative Effects of Polyethylene Glycol in Colon Carcinogenesis; *Gastroenterology* 1 May 2010 (volume 138 issue 5 Page S-80 DOI: 10.1016/S0016-5085(10)60364-2)
25. Roy HK, Mutyal N, Radosevich A, Tiwari AK, Turzhitsky V, Wali RK, Bianchi LK, Jameel M, Bogojevic A, Backman V. In Situ Rectal Low-Coherence Enhanced Backscattering Spectroscopy (Lebs) With a Fiber-Optic Probe Provides Accurate Risk Stratification for Colorectal Neoplasia; *Gastroenterology* 1 May 2010 (volume 138 issue 5 Page S-113 DOI: 10.1016/S0016-5085(10)60519-7)
26. Kunte DP, Wali RK, Stypula Y, Tiwari AK, Ward TP, DeLaCruz MA, Gandhi SR, Roy HK. MicroRNA 132 Regulation in Human Colon Carcinogenesis: Potential Role in NSAID Chemoprevention; *Gastroenterology* 1 May 2010 (volume 138 issue 5 Page S-348 DOI: 10.1016/S0016-5085(10)61602-2)
27. Roy HK, Mutyal N, Goldberg MJ, Rogers JD, Tiwari AK, Radosevich A, Wali RK, Bianchi LK, Yen EF, Jameel M, Bogojevic A, Backman V. Microvascular and Micro-Architectural Spectral Markers Having Synergistic Diagnostic Capabilities for Colon Neoplasia Risk Stratification; *Gastroenterology* 1 May 2010 (volume 138 issue 5 Page S-31 DOI: 10.1016/S0016-5085(10)60143-6)
28. Kunte DP, Wali RK, Stypula Y, Tiwari AK, DeLaCruz MA, Ward TP, Gandhi SR, Roy HK. MicroRNA Modulation is Involved in the Progression Phase of Colon Carcinogenesis in the Azoxymethane-Treated Rat Model: Implications for NSAID Chemoprevention;



Gastroenterology 1 May 2010 (volume 138 issue 5 Page S-508 DOI: 10.1016/S0016-5085(10)62345-1)

29. Kunte DP, Batra SK, Das S, Senapati S, Wali RK, Tiwari AK, Ward TP, DeLaCruz MA, Gandhi SR, Roy HK. MUC 4 Suppression is an Early Event in Colorectal Carcinogenesis (CRC): Potential Biomarker for Screening and Chemoprevention; *Gastroenterology* 1 May 2010 (volume 138 issue 5 Pages S-287-S-288 DOI: 10.1016/S0016-5085(10)61322-4)
30. Stypula Y, Damania D, Subramanian H, Joshi S, Tiwari AK, Ward TP, Kunte DP, Gandhi SR, DeLaCruz MA, Wali RK, Roy HK, Backman V. Nanoscale Alterations in Early Colon Carcinogenesis are Determined by Cytoskeletal Dysregulation in Microscopically Normal Mucosa; *Gastroenterology* 1 May 2010 (volume 138 issue 5 Page S-507 DOI: 10.1016/S0016-5085(10)62342-6)
31. Wali RK, Koetsier J, Gandhi SR, Stypula Y, Kunte DP, Tiwari AK, Roy HK. Gender Specific Efficacy of NSAIDs in Colorectal Cancer Chemoprevention May Be Secondary to Differences in the Modulation of Estrogen Receptor ER  $\alpha$  Expression; *Gastroenterology* 1 May 2010 (volume 138 issue 5 Page S-350 DOI: 10.1016/S0016-5085(10)61613-7)
32. Gibson TP, Tiwari AK, Kunte DP, Brasky J, DeLaCruz MA, Stypula Y, Wali RK, Roy HK. The Application of Metabolic Markers (GLUT1, GLUT4, TKTL1/2) to Formulate Novel Risk Stratification Strategies Against Colorectal Cancer; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Page S-185 DOI: 10.1016/S0016-5085(11)60745-2)
33. Patel AC, DeLaCruz MA, Tiwari AK, Wali RK, Kunte DP, Gibson TP, Subramanian P, Stypula Y, Roy HK. HPV Status Modulates Chemopreventive Effects of NSAIDs in Upper Digestive Cancers; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Pages S-82-S-83 DOI: 10.1016/S0016-5085(11)60335-1)
34. Kunte DP, Wali RK, DeLaCruz MA, Tiwari AK, Gibson TP, Stypula Y, Brasky J, Roy HK. Modulation of MicroRNA 34a in Early Colon Carcinogenesis: Potential Mechanism for Gender Related Initiation-Progression Discordance; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Page S-338 DOI: 10.1016/S0016-5085(11)61374-7)
35. Kunte DP, Wali RK, DeLaCruz MA, Gibson TP, Tiwari AK, Brasky J, Stypula Y, Roy HK. MicroRNAs as Novel Targets for NSAID Chemoprevention of Colon Carcinogenesis; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Page S-41 DOI: 10.1016/S0016-5085(11)60163-7)
36. Brasky J, Kunte DP, Wali RK, Tiwari AK, Gibson TP, DeLaCruz M, Stypula Y, Subramanian P, Roy HK. Impact of Gender on Colon Carcinogenesis: Modulation of Epidermal Growth Factor; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Pages S-338-S-339 DOI: 10.1016/S0016-5085(11)61375-9)
37. Stypula Y, Mutyal N, Radosevich A, Joshi S, Tiwari AK, Kunte DP, DeLaCruz MA, Roy HK, Backman V. END Binding Protein (EB1) Up-Regulation in Field Carcinogenesis: Implications for Cytoskeletal Alterations Measured by Low-Coherence Enhanced Backscattering (LEBS); *Gastroenterology* 1 May 2011 (volume 140 issue 5 Pages S-335-S-336 DOI: 10.1016/S0016-5085(11)61363-2)

38. Wali RK, Kunte DP, DeLaCruz MA, Tiwari AK, Gibson TP, Brasky J, Roy HK. DCAMKL1 Expression Predominantly Correlates With Increased Initiation and Progression of Colonic Tumorigenesis in Male Azoxymethane-Treated Rats; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Page S-343 DOI: 10.1016/S0016-5085(11)61392-9)
39. Stypula Y, Crawford S, Subramanian H, Tiwari AK, Kunte DP, Roy HK, Backman V. Understanding Biological Mechanisms of Nuclear Disorder Strength in Early Carcinogenesis; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Pages S-765-S-766 DOI: 10.1016/S0016-5085(11)63176-4)
40. DeLaCruz MA, Kunte DP, Tiwari AK, Stypula Y, Wali RK, Subramanian P, Roy HK. Progesterone Receptor Isoform Expression as Colon Carcinogenesis: A Potential Mechanism for the Impact of Gender in Colonic Neoplasms; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Page S-336 DOI: 10.1016/S0016-5085(11)61364-4)
41. DeLaCruz MA, Wali RK, Kunte DP, Tiwari AK, Gibson TP, Brasky J, Subramanian P, Stypula Y, Roy HK. Gender Based Tumor Characterization in the Carcinogen (Azoxymethane) Treated and Germ Line [APC Mutation, Polyposis in Rat (Pirc)] Models of Colorectal Carcinogenesis; *Gastroenterology* 1 May 2011 (volume 140 issue 5 Page S-128 DOI: 10.1016/S0016-5085(11)60522-2)
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#### RECENT WORKSHOPS/CONFERENCES

- 2014: Americal Society for Gastrointestinal Endoscopy (ASGE) workshop for first year gastroenterology fellow, Downers Grove, IL
- 2020: ACG IBD School of Medicine, Las Vegas

#### TEACHING EXPERIENCE

- 2009-2011: Supervised summer research students, undergraduate students and first-year graduate students in the basic research facility at NorthShore University HealthSystem (University of Chicago), IL
- 2011-ongoing: Supervised and evaluated 3<sup>rd</sup> and 4<sup>th</sup> year medical students (Michigan State University College of Human Medicine and Osteopathic Medicine) during their internal medicine in-patient rotations at Sparrow hospital
- 2012-2013: Preceptor for pulmonary, cardiac and abdominal examination curriculum for 2<sup>nd</sup> and 3<sup>rd</sup> year medical students at MSU College of Human Medicine

#### CIVIC ACTIVITIES

- 2012-2014: Volunteer at many Care Free Clinic centers in the Lansing area (Michigan)