

**I. BIOGRAPHICAL DATA**

Name Nigel T Brockton  
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Present rank Associate Professor (*Adjunct*)  
Departments Department of Oncology and Department of Community Health Sciences  
Faculty Cumming School of Medicine  
Institution University of Calgary

**II. ACADEMIC RECORD**

Final Degree: PhD  
Date completed: 2003  
Specialty: Genetic Epidemiology  
Institution/City/Country: University of Aberdeen, Aberdeen, United Kingdom

**i. Undergraduate**

1994 BSc, (Hons.) Applied Marine Biology (Upper Second Class), Heriot-Watt University, Edinburgh, United Kingdom

**ii. Special professional**

2007 Post-Doctoral Fellow, University of Dundee, Division of Maternal and Child Health Sciences, Dundee, United Kingdom

**iii. Graduate and Post-Doctoral**

2003 PhD, Genetic Epidemiology, University of Aberdeen, Aberdeen, United Kingdom

**III. AWARDS AND DISTINCTIONS**

2009 - 2011 Recruitment & Retention Salary Award, Alberta Cancer Research Institute  
2008 - 2009 Recruitment & Retention Salary Award, Alberta Cancer Research Institute  
2006 Establishment Grant, Alberta Cancer Foundation

**IV. ACADEMIC APPOINTMENTS**

2017 - present	Adjunct Associate Professor, Department of Community Health Sciences, The University of Calgary, Calgary, Alberta, Canada
2014 - present	Adjunct Associate Professor, Department of Oncology, The University of Calgary, Calgary, Alberta, Canada
2009 - present	Associate Member, Calgary Institute of Public Health, Calgary, Alberta, Canada
2008 - 2014	Adjunct Assistant Professor, Department of Oncology, The University of Calgary, Calgary, Alberta, Canada
2008 - present	Full Member, Arnie Charbonneau Cancer Institute, Calgary, Alberta, Canada
2007 - present	Research Scientist, Cancer Epidemiology and Prevention Research, CancerControl Alberta, Alberta Health Services, Calgary, Alberta, Canada
2002 - 2007	Post-Doctoral Fellow, Division of Maternal and Child Health Sciences, University of Dundee, Dundee, Scotland, United Kingdom
2001 - 2002	Research Assistant, Department of Obstetrics & Gynaecology, University of Dundee, Dundee, Scotland, United Kingdom
1999 - 2000	Student Research Assistant, Child Health, University of Aberdeen, Aberdeen, Scotland, United Kingdom
1997 - 1998	Part-Time Technician, Oncology, University of Aberdeen, Aberdeen, Scotland, United Kingdom

**V. EDUCATIONAL ACTIVITIES**

**i. Undergraduate**

2016 - 2017	Amit Manocha. MDSC 528 (Independent Studies in Medical Science Course) Supervisor (September 2016-April 2017)
2016 (May – Aug)	Summer Student Nicholas Massaro (BSc Kinesiology); PURE and Markin award recipient (Markin award declined)
2011 - present	Population Health, Healthy Populations Small Group Teaching, Preceptor, University of Calgary, Calgary, Alberta, Canada
2011 - present	CMMB/MDSC 561 Cancer Biology; Cancer Metastasis, Lecture, The University of Calgary, Calgary, Alberta, Canada
2003 - 2007	“Liver Glucose Metabolism”, Module taught to 3rd year undergraduate Medical Students, University of Dundee, School of Medicine, Dundee, Scotland, United Kingdom

**ii. Graduate**

2007 - 2014	MDSC647.01 Introduction to Epidemiology; Molecular epidemiology tutorial, Lecture, University of Calgary
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**iii. Postgraduate**

***Supervision***

2010 - 2013	Pinaki Bose, PhD, Supervisor, University of Calgary, Calgary, Alberta, Canada
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***Committee Membership & Examination***

2017 – present	Monica Ghebrial (O’Brien Institute Summer Studentship), Supervisor
2016 – present	Britten Adams (2nd year Biomedical Sciences), Mentor
2016 – present	Mehul Kumar (2nd year Biomedical Sciences), Mentor
2016 – present	Hiulan Yau (1st year Biomedical Sciences), Mentor
2015 – present	Amit Manocha (3rd Year Biomedical Sciences), Mentor
2015 – 2016	Alexander Mathews (2nd Year Biomedical Sciences), Mentor
2014 – present	Alex Wang, PhD. Cell Biology And Anatomy, Supervisory Committee
2014 – 2016	Wejdan Matook, MSc. Cell Biology and Anatomy, Supervisory Committee
2013 – 2015	Amy Hobbs, MSc Community Health Sciences, Mentor & supervisory Committee
2016	Andrew Tran (High School student), Summer Career Discovery Program mentor

**iv. Continuing medical education**

2015/10/07	New Insights: Breast Cancer & Bone Metastases, Department of Oncology Grand Rounds, Tom Baker Cancer Centre
2012/01/18	The Colorectal Cancer, Lifestyle & Environment in Alberta Research (CLEAR) Study, Gastrointestinal Research Group (GIRG) Seminars and Business Meetings, Calgary, Alberta, Canada
2010/03/18	Comprehensive Breast Cancer Rapid Ascertainment: Codename: CoBRA. Annual Breast Surgeons’ Dinner, University of Calgary, Calgary, Alberta, Canada
2009/11/30	Implementing Comprehensive Ascertainment of Breast Cancer Patients in Southern Alberta, Women’s Health Outpatient Programs, Foothills Hospital, Calgary, Alberta, Canada
2009/11/06	Implementing Comprehensive Ascertainment of Breast Cancer Patients in Southern Alberta, Surgery & Pathology Rounds, Rocky View General Hospital, Calgary, Alberta, Canada
2009/10/06	Comprehensive Breast Cancer Rapid Ascertainment for Patients in Southern Alberta: Codename: CoBRA, Pathology Department Dinner, Calgary, Alberta, Canada
2009/05/06	Head & Neck Cancer - Collaborate and Conquer, Oncology Grand Rounds, Department of Oncology, University of Calgary, Calgary, Alberta, Canada
2009/03/13	Breast Cancer to Bone (B2B) Metastasis Research Program: Rationale, Structure & Implementation, Breast Tumor Group Educational Rounds: Tom Baker Cancer Centre, Calgary, Alberta, Canada
2009/02/25	Research Round-up, Population Health Research Rounds: Tom Baker Cancer Centre, Calgary, Alberta, Canada
2008/05/07	Home from ‘ome: The B2B multidisciplinary (and multi-’omic) approach to Breast Cancer “homing” to the bone; The Breast Cancer to Bone (B2B) Metastasis Research Program, Oncology Grand Rounds, Department of Oncology, University of Calgary, Calgary, Alberta, Canada

**v. Community Education**

- 2016/08/05 Enbridge Ride to Conquer Cancer Camp Address – Progress, Impact and Support – How The Ride Changes the Lives of Albertans Facing Cancer Overnight Camp, Okotoks, Alberta, Canada.
- 2015/09/26 Lemons and Lemonade: Hope, Frustration and Progress. The Cancer Journey Living Library, Central Library, Calgary, Alberta
- 2014/09/26 How things have changed - Advances in Cancer Research. Le Roi Daniels Elementary School Terry Fox Assembly Calgary, Alberta
- 2014/09/08 How things have changed - Advances in Cancer Research. Westmount Elementary School Terry Fox Assembly, Calgary, Alberta
- 2009/11/20 Breast Cancer Research: Better Together: The B2B Metastases Research Program and partnership with the CBCF Tumor Bank, CIHR Café Scientifique, Lethbridge, Alberta, Canada
- 2009/09 Ride to Conquer Cancer – Ambassador Event – Researcher Perspective. Tom Baker Cancer Centre, Calgary, Alberta, Canada.
- 2009/07 Weekend to End Breast Cancer – Researcher Perspective / Dollars at work. Overnight Camp, Currie Barracks, Calgary, Alberta, Canada.
- 2009/04 Ride to Conquer Cancer – Ride Orientation – Researcher Perspective. Glenbow Museum, Calgary, Alberta, Canada. Apr 16, 2009
- 2009/03 Ride to Conquer Cancer – Ride Orientation – Researcher Perspective. Plaza Cinema, Calgary, Alberta, Canada.

**VI. ADMINISTRATIVE RESPONSIBILITIES**

**i. Departmental**

- 2010 - 2013 Scientific Lead, Biorepository and Biospecimen Processing Unit
- 2010 - 2011 Coordinator, Population Health Research Journal Club
- 2007 - 2010 Coordinator, Molecular Epidemiology Journal Club
- 2008 - 2009 Coordinator, “Research Coffee” - Discussion Group

**ii. University**

- 2009 – present Member, O’Brien Institute for Public Health
- 2008 - present Member, Arnie Charbonneau Cancer Institute
- 2007 - present Alternate, Arnie Charbonneau Cancer Institute Infrastructure committee

**VII. PROFESSIONAL ACTIVITIES**

**i. Membership in professional and learned societies.**

- 2013 - present International Society for Biological and Environmental Repositories
- 2009 - present American Association for Cancer Research
- 2009 - present American Association for Cancer Research – Molecular Epidemiology Group
- 2010 - present American Association for Cancer Research – Tumor Microenvironment Group

2007 - present	Canadian Society for Epidemiology and Biostatistics
1998 - present	HuGENet (Human Genetic Epidemiology Network)
2001 - 2005	Biochemical Society

**ii. Professional service**

***Grant panels***

2017 – Present	Cancer Research Society Grant Review Panel (Panel E)
2016 – present	World Cancer Research Fund (WCRF) Grant Review
2015 – present	Alberta Cancer Foundation Training Award Review Committee
2012 - present	Arnie Charbonneau Cancer Institute (Internal Peer-Review)
2010 - present	Calgary Laboratory Services Research Funding Competition
2010 - present	Calgary Institute for Population & Public Health (Internal Peer-Review)
2009 - present	Tom Baker Cancer Centre - Application for In-House Studies
2009 - present	Breast Cancer Society of Canada (Calgary) Review Panel
2008 - 2010	CBCRA IDEA Grants Standing Review Panel

***Journal Reviews***

2016 – present	Breast Cancer: Targets and Therapy
2016 – present	eCancermedalscience
2015 – present	Biotechnic & Histochemistry
2015 – present	Medical Principles & Practice
2015 – present	Journal of Experimental & Clinical Cancer Research
2015 – present	BMC Cancer
2014 – present	Biomarker Insights
2014 – present	Seminars in Cancer Biology
2013 – present	Cell Communication and Signaling
2013 – present	Cancer Epidemiology
2012 – present	Supportive Care in Cancer
2012 - present	Cancer Epidemiology
2012 - present	Supportive Care in Cancer
2011 – present	Biochemistry and Cell Biology
2011 - present	International Journal of Radiation Oncology – Biology – Physics
2009 - present	Chronic Diseases in Canada
2008 - present	European Journal of Clinical Nutrition
2008 - present	International Journal of Cancer
2008 - present	Cancer Epidemiology Biomarkers & Prevention
2008 - present	Cancer Causes & Control
2007 - present	British Journal of Cancer

2007 - present	Journal of Surgical Oncology
2005 - present	Journal of Gastrointestinal and Liver Diseases
2001 - present	Gut

***International Committees***

2016 – Present	International Society for Biological and Environmental Repositories (ISBER) 2017 Annual Meeting Organizing Committee
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***Regional Committees***

2014 – 2015	Department of Cancer Epidemiology & Prevention Research, Research Scientist Search & Selection Committee
2013 – 2016	Member, Alberta Cancer Research Biobank Executive Committee
2012 - 2014	Member, Alberta Cancer Research Provincial Task Force Committee
2012 - 2013	Member, CBCF Tumor Bank Operations Committee
2012 - 2013	Member, Alberta Cancer Foundation 2014 Cancer Research Conference Organizing Committee
2009 - present	Member, Breast Cancer Society of Canada (Calgary) Advisory Group
2009 - 2012	Chair, Canadian Breast Cancer Foundation Tumor Bank-Data Management Committee
2008 - 2012	Member, Canadian Breast Cancer Foundation Tumor Bank-Core Management Committee
2008 - 2012	Member, Canadian Breast Cancer Foundation Tumor Bank-Executive Committee
2008 - 2013	Member, ACRI Biorepository Population Health
2008 - present	Member, Ohlson Research Initiative - Scientific Advisory Board

***Other***

2010 - present	Ride to Conquer Cancer – Event Ambassador & Organizing Committee member. Enbridge Head Office, Calgary, Alberta, Canada.
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**VIII. RESEARCH SUPPORT**

***Grants and contracts***

2015-2017	\$64,377 Funded, Principal Investigator, Vitamin D regulation of the Breast Tumour Microenvironment. Breast Cancer Society of Canada - Calgary
2014 - 2019	\$5,696,303 Funded, Co-Investigator, Towards better outcomes for young women with breast cancer: a pan-Canadian collaborative. Canadian Breast Cancer Foundation-Canadian Institutes for Health Research; The impact of modifiable lifestyle factors in breast cancer survival in young women: Sub project in, “Towards better outcomes for young women with breast cancer: A pan-Canadian collaborative study”. Canadian Breast Cancer Foundation-Canadian Institutes for Health Research (\$376,832).

2014- 2016	\$391,585, Funded, Co-Investigator, Enhancing Capacity for Lifestyle and Cancer Epidemiology in Alberta, Alberta Cancer Foundation – Foundational Infrastructure 2013
2010 - 2016	\$543,247, Funded, Principal Investigator, The Role of Vitamin D and Inflammation in Colorectal Cancer Metastases (CLEAR), Alberta Cancer Foundation
2009 - 2015	\$1,284,274, Funded, Principal Investigator, Biospecimen Processing Core Facility, ACRI Infrastructure & Program Support
2009 - 2011	\$30,000, Funded, Co-Investigator, Identification of colorectal adenocarcinoma using multiplexed serum proteomic analysis, Tom Baker Cancer Centre In-House Studies
2008 - 2019	\$1,390,890, Funded, Principal Investigator, Breast Cancer to Bone (B2B) Metastases Research Program, ACRI Breast Cancer Translational Group Competition
2008 - 2010	\$303,558, Funded, Co-Principal Investigator, High Throughput DNA Extraction/Plating, ACRI Infrastructure & Program Support
2008 - 2009	\$35,000, Funded, Principal Investigator, HPV, Hypoxia and Head & Neck Cancer, ACRI Bridge Pilot/Pilot/Limited Term Projects
2007 - 2008	\$500,000, Funded, Co-Investigator, The Alberta Cohort Study (The Tomorrow Project): Infrastructure Support, Alberta Cancer Foundation
2007 - 2008	\$10,000, Funded, Principal Investigator, Ultra-low Temperature Freezer for Breast Cancer to Bone Metastases Program, ACRI Research Equipment Competition

## **IX. INVITED ADDRESSES/PRESENTATIONS**

### **i. Invited Addresses**

2015/08/20	Patient-modifiable factors and Cancer Outcomes: Optimising Patient Prospects. Department of Surgery & Cancer Seminar, Imperial College, London
2015/05/08	Biospecimens as Observational Data: How Does What you Collect and Who you Collect it from Impact the Validity of the Downstream Research? ISBER Annual Research Meeting, Conference Workshop, Phoenix, Arizona, United States
2014/07/10	Improving Cancer Outcomes through Patient-modifiable factors: An Uncertain Prescription? Canadian Organization for Medical Physicists, Annual Scientific Meeting, Banff, Alberta, Canada.
2014/05/13	Improving Cancer Outcomes through Patient-modifiable factors: An Uncertain Prescription?" Special Guest Speaker, Moffitt Cancer Centre, Tampa, Florida, United States
2012/11/02	Population-based Molecular Epidemiology in Alberta – the opportunities, challenges and solutions, Alberta Cancer Foundation Annual Research Conference, Banff, Alberta, Canada

- 2012/04/20 Creation of a Population-based Breast Cancer to Bone (B2B) Metastasis Cohort in Alberta, Bonus 7, Ottawa, Ontario, Canada
- 2012/02/13 Clinical Research in Head & Neck Cancer: An Integrated Approach to a Challenging Disease, Collaborative Research Seminar, University of Lethbridge, Lethbridge, Alberta, Canada
- 2011/11/06 Tools and Mechanisms Available for a Prostrate to Bone Research Program, Provincial GU Tumor Group Meeting, Banff, Alberta, Canada
- 2008/11/26 B2B: Breast Cancer to Bone Metastases Research Program, Alberta Cancer Board Annual Research Meeting The Banff Centre, Calgary, Alberta, Canada
- 2008/03/28 The Alberta Breast Cancer to Bone ("B2B") Metastasis Research Program, BONUS 3: Bone Metastasis workshop, Toronto, Ontario, Canada
- 2007/10/27 Molecular Epidemiology: Application to Breast to Bone Metastases, Provincial Breast Cancer Retreat, Kananaskis, Alberta, Canada
- 2006/12/06 Localized Folate Depletion: Concept and Consequences, Community Health Sciences Seminar Series. University of Calgary, Calgary, Alberta, Canada
- 2005/10/05 Too Late for Folate, National Cancer Institute, Division of Cancer Epidemiology and Genetics (Nutritional Epidemiology Branch) Seminar, Bethesda, Maryland, United States

**ii. Presentations**

- 2016/05/09 Lifestyle Modification - Improved health, reduced risk of cancer and better outcomes after diagnosis. C-MORE Townhall, Red Deer, Alberta, Canada
- 2014/05/24 Hell or High Water: the Alberta Cancer Research Biorepository Disaster Readiness, Response and Recovery. Education & Training Workshop, International Society for Biological and Environmental Repositories, Annual Meeting, Orlando, Florida, United States
- 2013/10/21 p16 Expression as a prognostic factor in Oral Squamous Cell Carcinoma. Alberta Cancer Foundation Annual Research Meeting, Banff, Alberta, Canada
- 2013/05/15 p16-directed transcriptome profiling in oral squamous cell carcinoma, 4th World Congress of the International Academy of Oral Oncology meeting, Rhodes Island, Dodekanisos, Greece
- 2013/04 Fractal analysis of nuclear histology integrates tumor and microenvironment into a single prognostic factor in OSCC, Combined Otolaryngology Societies Meeting, Orlando, Florida, United States
- 2012/09 Extra-nuclear ING1 function: From molecular characterization to patient survival, Southern Alberta Cancer Research Institute Trainee Research Day, Calgary, Alberta, Canada
- 2012/07 Cytoplasmic ING1 expression measured by AQUAnalysis® is an independent prognostic marker in oral squamous cell carcinoma, 8th International Conference on Head and Neck Cancer, Toronto, Ontario, Canada



- 2012/07 Baseline Ki67 expression in the tumour drives prognosis in oral squamous cell carcinoma, 8th International Conference on Head and Neck Cancer, Toronto, Ontario, Canada
- 2012/03 Biomarker-directed transcriptome profiling in oral squamous cell carcinoma. Robert Church lecture trainee presentations on high-throughput data. Received poster presentation award, Southern Alberta Cancer Research Institute Trainee Research Day, Calgary, Alberta, Canada
- 2011/10 Highly-specific and sensitive hydrolysis probe-based real-time PCR detection of epidermal growth factor receptor variant III in oral squamous cell carcinoma, 5th European Organization for Research and Treatment of Cancer (EORTC)/ National Cancer Institute (NCI)/ American Society for Clinical Oncology (ASCO) Annual Meeting on Molecular Markers in Cancer, Brussels, Belgium
- 2011/09/30 Automated quantitative immunohistochemical analysis reveals Bax protein expression is an independent predictor of survival in oral squamous cell carcinoma (Poster presentation-shared first prize), SACRI/Department of Oncology Trainee Research Day, Calgary, Alberta, Canada
- 2011/09/30 Bax expression measured by AQUAnalysis® is an independent prognostic marker in oral cavity squamous cell carcinoma. Shared first prize for best poster, SACRI/Department of Oncology Trainee Research Day, Calgary, Alberta, Canada
- 2010/10 Stromal Carbonic Anhydrase as a Prognostic Marker in Surgically Treated Oral Cavity Squamous Cell Carcinoma, American Head and Neck Society Research Workshop on the Biology, Prevention and Treatment of Head & Neck Cancer, Arlington, Virginia, United States
- 2009/10/20 High Stromal Expression of CAIX is Predictive of Poorer Overall Survival in Patients with HPV-negative Head & Neck Cancer Treated with Concurrent Chemoradiotherapy, 5th International Conference on Tumor microenvironment, Versailles, Yvelines, France
- 2009/10/04 The Molecular Evaluation of Oral Cavity Squamous Cell Carcinoma, Annual American Academy of Otolaryngology - Head and Neck Surgery, San Diego, California, United States
- 2009/05/10 Utility of Endogenous Markers of Hypoxia In Head & Neck Cancer: Impact of Tumour HPV Status and CAIX Expression in Locally Advanced Head & Neck Squamous Cell Carcinoma, Canadian Society of Otolaryngology–Head and Neck Surgery 63rd Annual Meeting, Halifax, Nova Scotia, Canada
- 2009/11 Immunohistochemical Analysis of Stromal CAIX Expression Predicts Survival in Patients with Oral Cavity Squamous Cell Carcinoma, Alberta Cancer Research Institute Annual Research Meeting, Banff, Alberta, Canada
- 2009/11 Ki67 Expression Associated with High Levels of EGFR Is a Strong Predictor of Survival in Patients with Oral Cavity Squamous Cell Carcinoma, Alberta Cancer Research Institute Annual Research Meeting, Banff, Alberta, Canada

- 2008/10 Does the utility of endogenous markers of hypoxia differ by tumor HPV status in head & neck cancer, AACR Chemical and Biological Aspects of Inflammation and Cancer Conference, Oahu, Hawaii, United States
- 2008/04/25 A hypothesized biologic model by which physical activity lowers postmenopausal breast cancer risk, Canadian Breast Cancer Research Alliance “Reasons for Hope” Conference, Vancouver, British Columbia, Canada
- 2005/07 Impact of NSAID use on colorectal cancer risk is dependent on MTHFR genotype. (meeting abstract), American Institute for Cancer Research, International Research Conference on Food, Nutrition, and Cancer, Washington, District of Columbia, United States
- 2002/12 CYP1A1 genotype and colorectal cancer. (meeting abstract), Biochemical Society 678th Meeting

## X. PUBLICATIONS

### i. Peer reviewed manuscripts

1. Amy J. Hobbs, **Nigel T. Brockton**, T. Wayne Matthews, Shamir P. Chandarana, Pinaki Bose, Kelly Guggisberg, Gordon H. Fick, Joseph C. Dort. Primary Treatment of Oropharyngeal Squamous Cell Carcinoma in Alberta, Canada: A population based study (*Accepted, Head & Neck, June 2017*)
2. **Brockton NT**, Lohavanichbutr P, Enwere EK, Upton MP, Kornaga EN, Nakoneshny SC, Bose P, Chen C, Dort JC. Impact of tumoural carbonic anhydrase IX and Ki67 expression on survival in oral squamous cell carcinoma patients (*Accepted, Oncology Letters May 2017*)
3. Brenner DR\*, **Brockton NT\***, Kotsopoulos J, Cotterchio M, Boucher BA, Courneya KS, Knight JA, Olivotto IA, Quan ML, Friedenreich CM. Breast cancer survival among young women: a review of the role of modifiable lifestyle factors. *Cancer Causes Control*. 2016 Apr;27(4):459-72
4. **Brockton NT**, Gill SJ, Laberge SL, Paterson AH, Cook LS, Vogel HJ, Shemanko CS, Hanley DA, Magliocco AM, Friedenreich CM. The Breast Cancer to Bone (B2B) Metastases Research Program: a multi-disciplinary investigation of bone metastases from breast cancer. *BMC Cancer*. 2015 Jul 10;15:512
5. Bose P, **Brockton NT**, Guggisberg K, Nakoneshny SC, Kornaga E, Klimowicz AC, Tambasco M, Dort JC. Fractal analysis of nuclear histology integrates tumor and stromal features into a single prognostic factor of the oral cancer microenvironment. *BMC Cancer*. 2015 May 15;15(1):409
6. Dang M, Lysack JT, Wu T, Matthews TW, Chandarana SP, **Brockton NT**, Bose P, Kimowicz AC, Kornaga E, Bansal G, Cheng H, Mitchell JR, Dort JC. MRI Texture Analysis Predicts p53 Status in Head and Neck Squamous Cell Carcinoma. *American Journal of Neuroradiology* 2014 Sep 25.
7. Bose P, Thakur SS, **Brockton NT**, Klimowicz AC, Kornaga E, Nakoneshny SC, Riabowol KT, DortJC. Tumor cell apoptosis mediated by cytoplasmic ING1 is associated with improved survival in oral squamous cell carcinoma patients. *Oncotarget* 2014 May 30;5(10):3210-9.

8. Klimowicz AC, Bose P, Petrillo SK, Magliocco AM, Dort JC, **Brockton NT**. The prognostic impact of a combined carbonic anhydrase IX and Ki67 signature in oral squamous cell carcinoma. *Br J Cancer*. 2013 Oct 1;109(7):1859-1866.
9. Bose P, Dort JC, **Brockton NT**. Identifying the stromal cell type that contributes to tumor aggressiveness associated with carbonic anhydrase IX. *Cell Cycle*. 2013 Aug 15;12(16):2535
10. Bose P, **Brockton NT**, Dort JC. Head and neck cancer: From anatomy to biology. *Int J Cancer*. 2013 Nov;133(9):2013-23.
11. Klimowicz AC, Bose P, Nakoneshny SC, Dean M, Huang L, Chandarana S, Magliocco AM, Wayne Matthews T, **Brockton NT**, Dort JC. Basal Ki67 expression measured by digital image analysis is optimal for prognostication in oral squamous cell carcinoma. *Eur J Cancer*. 48(14):2166-2174. Aug 2012
12. Bose P, Klimowicz AC, Kornaga E, Petrillo SK, Matthews TW, Chandarana S, Magliocco AM, **Brockton NT**, Dort JC. Bax expression measured by AQUAnalysis is an independent prognostic marker in oral squamous cell carcinoma. *BMC Cancer*. 2012 Aug 1;12:332
13. **Brockton NT**, Klimowicz AC, Bose P, Petrillo SK, Konno M, Rudmik L, Dean M, Nakoneshny SC, Matthews TW, Chandarana S, Lau HY, Magliocco AM, Dort JC. High stromal carbonic anhydrase IX expression is associated with nodal metastasis and decreased survival in patients with surgically-treated oral cavity squamous cell carcinoma. *Oral Oncol*. 48(7):615-622. Feb 2012
14. McIntyre JB, Bose P, Klimowicz AC, **Brockton NT**, Petrillo S, Matthews W, Easaw J, Magliocco A, Dort JC. Specific and sensitive hydrolysis probe-based real-time PCR detection of epidermal growth factor receptor variant III in oral squamous cell carcinoma. *PLoS One*. 7(2):e31723. Feb 2012
15. Petersen LF, **Brockton NT**, Bakkar A, Liu S, Wen J, Weljie AM, Bismar TA. Elevated physiological levels of folic acid can increase in vitro growth and invasiveness of prostate cancer cells. *BJU Int*. 109(5):788-795. Jul 2011
16. Lau HY, Brar S, Klimowicz AC, Petrillo SK, Hao D, **Brockton NT**, Kong CS, Lees-Miller SP, Magliocco AM. Prognostic significance of p16 in locally advanced squamous cell carcinoma of the head and neck treated with concurrent cisplatin and radiotherapy. *Head & Neck*. 33(2):251-256. Feb 2011
17. **Brockton NT**, Dort J, Lau H, Hao D, Brar S, Klimowicz AC, Petrillo SK, Diaz R, Doll C, Magliocco AM. High Stromal Carbonic Anhydrase IX Expression is Associated with Decreased Survival in p16-negative Head & Neck Tumors. *Int J Radiat Oncol Biol Phys*. 80(1):249-257. Feb 2011
18. Boffetta P, Colditz GA, Potter JD, Kolonel L, Robson PJ, Malekzadeh R, Seminara D, Goode EL, Yoo KY, Demers P, Gallagher R, Prentice R, Yasui Y, O'Doherty K, Petersen GM, Ulrich CM, Csizmadi I, Amankwah EK, **Brockton NT**, Kopciuk K, McGregor SE, Kelemen LE. Cohorts and consortia conference: a summary report (Banff, Canada, June 17-19, 2009). *Cancer Causes Control* 22(3):463-468. Jan 2011
19. Neilson HK, Friedenreich CM, **Brockton NT**, Millikan RC. Physical Activity and Postmenopausal Breast Cancer: Proposed Biologic Mechanisms and Areas for Future Research. *Cancer Epidemiol Biomarkers Prev*. 18(1):11-27 Review. Jan 2009
20. **Brockton NT**. Systemic folate status and risk of colorectal cancer. *Cancer Causes Control*. 19(9):1005-1007. Nov 2008

21. Sharp L, Little J, **Brockton NT**, Cotton SC, Masson LF, Haites NE, Cassidy J. Polymorphisms in the methylene tetrahydrofolate reductase (MTHFR) gene, intakes of folate and related B vitamins and colorectal cancer: a case-control study in a population with relatively low folate intake. *Br J Nutr.* 99(2):379-389. Dec 2007
22. Little J, Sharp L, Masson LF, **Brockton NT**, Cotton SC, Haites NE, Cassidy J. Colorectal cancer and genetic polymorphisms of CYP1A1, GSTM1 and GSTT1: a case-control study in the Grampian region of Scotland. *Int J Cancer.* 119(9):2155-2164. Nov 2006
23. **Brockton NT**. Localized depletion: the key to colorectal cancer risk mediated by MTHFR genotype and folate? *Cancer Causes Control.* 17(8):1005-1016. Oct 2006
24. Leonce J, **Brockton N**, Robinson S, Venkatesan S, Bannister P, Raman V, Murphy K, Parker K, Pavitt D, Teoh TG, Regan L, Burchell A, Steer P, Johnston DG. Glucose production in the human placenta. *Placenta.* 27 Suppl A:S103-108. Apr 2006
25. **Brockton NT**. UGT1A7 polymorphisms and colorectal cancer susceptibility. *Gut.* 50(6):748-749. Jun 2002
26. **Brockton N**, Little J, Sharp L, Cotton SC. N-Acetyltransferase polymorphisms and colorectal cancer: A HuGE review. *Am J Epidemiol.* 151(9):846-861. Review. May 2000
27. Cotton SC, Sharp L, Little J, **Brockton N**. Glutathione S-transferase polymorphisms and colorectal cancer: A HuGE review. *Am J Epidemiol.* 151(1):7-32. Review. Jan 2000

**ii. Book Chapters**

1. Roberts JN, Karvonen C, Graham K, Weinfeld M, Joy AA, Koebel M, Morris D, Robson PJ, Johnston RN, **Brockton NT** “Driving population metrics into biobanking quality”. In Karimi-Busheri (Ed.) “Biobanking in the 21<sup>st</sup> Century”, *Advances in Experimental Medicine and Biology*, Springer International. 2015;864:95-114.

**iii. Abstracts – published peer-reviewed**

1. Bose P, McIntyre JB, Klimowicz AC, **Brockton NT**, Petrillo SK, Wayne-Matthews T, Easaw JA, Magliocco AM, Dort JC. PP 36 Highly-specific and sensitive hydrolysis probe-based real-time PCR detection of epidermal growth factor receptor variant III in oral squamous cell carcinoma. *European Journal of Cancer.* 47:Suppl 4, S11-S12. Oct 2011
2. Klimowicz AC, Bose P, Petrillo SK, Chandarana S, **Brockton N**, Matthews W, Craighead PS, Dort JC, Doll CM, Magliocco AM. The prognostic value of CAIX and Ki67 in defining hypoxia in squamous cell cancers. *J Clin Oncol.* 29:(suppl; abstr e21139). Jun 2011
3. Bose P, Klimowicz AC, Petrillo SK, Chandarana S, **Brockton N**, Matthews W, Magliocco AM, Dort JC. The prognostic significance of uncoupled proliferation and EGFR expression in oral cancer treated with surgery and radiation. *J Clin Oncol.* 29:(suppl; abstr e21146). Jun 2011
4. Lau HY, Brar S, Klimowicz AC, Petrillo SK, Hao D, **Brockton NT**, Kong CS, Lees-Miller SP, Magliocco AM. Prognostic significance of p16 in locally advanced squamous cell carcinoma of the head and neck treated with concurrent cisplatin and radiotherapy. *Head Neck.* 33(2):251-256. Feb 2011

5. **Brockton NT**, Dort J, Lau H, Hao D, Brar S, Klimowicz AC, Doll C, Magliocco AM. High Stromal Expression of CAIX is Predictive of Poorer Overall Survival in Patients with HPV-negative Head & Neck Cancer Treated with Concurrent Chemoradiotherapy. 5th International Conference on Tumor microenvironment. Versailles, France. Cancer Microenvironment. 2:(Suppl 1). Oct 2009
6. Leonce J, **Brockton NT**, Robinson S, Venkatesan S, Bannister P, Raman V, Steer P, Murphy K, Parker K, Pavitt D, Teoh TG, Burchell A, Regan L and Johnston D. Placental Glucose-6-Phosphatase: A Reason For Differences In Glucose Metabolism In Normal Pregnancy and Small For Gestational Age. (Meeting abstract). 11th European Placenta Group Meeting, Strathclyde University, Glasgow. Placenta. 26:8-9, A10-A10. Sep 2005
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