

**COLON CANCER FAMILY REGISTRY APPROVED APPLICATIONS**

**As of December 1, 2021**

| <u>Principal Investigator</u> | <u>PI Institution</u>                  | <u>Application Title</u>   | <u>Application ID</u> |
|-------------------------------|--|--|-----------------------|
| <b>--2021--</b>               |  |  |                       |
| Yiting Gong                   | University of Melbourne                | Association between physical and mental health and colorectal cancer screening.  | C-AU-1121-01          |
| Shuai Li                      | University of Melbourne                | Validation of family history of breast cancer in Colon Cancer Family Registry  | C-AU-0821-02          |
| Erikka Loftfield              | National Cancer Institute              | Associations of Plasma Microbial Metabolites with Colorectal Cancer Risk.  | C-EX-0921-01          |
| Robert MacInnis               | Cancer Council Victoria                | Family History and Cancer Risk in the Diet and Cancer Pooling Project.   | C-AU-0721-01          |
| Carmen Sapineza               | Temple University                      | Identification of meQTLs in colon cancer patients with highly disrupted epigenomes (Outlier Methylation Phenotype)                       | C-EX-0321-01          |
| Bonika Thapa                  | University of Melbourne                | Association between colorectal cancer screening and breast and cervical cancer screening for women and prostate cancer screening for men | C-AU-0821-01          |
| Fränzel van Duijnhoven        | Wageningen University                  | The role of vitamin D in the development of colorectal neoplasms in persons with Lynch syndrome  | C-EX-1120-01          |
| Emily Vogtmann                | National Cancer Institute              | Impact of lifetime alcohol consumption on cancer risk and mortality in the Colon CFR Cohort  | C-EX-0221-01          |
| Botao Xie                     | University of Melbourne                | Classifications of family by genetic cancer syndrome.  | C-AU-1021-01          |
| <b>--2020--</b>               |  |  |                       |
| Barbara Connell               | Biocartis, Inc.                        | Biocartis Study - Diagnostic Accuracy Study Idylla™ MSI Test v2.0.   | C-EX-0120-01          |
| Robert Bristow                | CRUK Manchester Institute              | Genomics of lynch syndrome related prostate cancer   | C-EX-1020-01          |
| Daniel Buchanan               | University of Melbourne                | Phase V CORE BRAF, KRAS  | C-CP-0120-01          |
| Daniel Buchanan               | University of Melbourne                | Phase V CORE germline MMR & MYH  | C-CP-0120-02          |
| Daniel Buchanan               | University of Melbourne                | Phase V CORE MLH1 methylation  | C-CP-0120-03          |
| Steve Gallinger               | Mount Sinai Hospital; Univ of Toronto  | Deep learning for colorectal cancer histopathology   | C-TO-1120-01          |
| Shane Harding                 | Princess Margaret Hospital             | Modes of genomic stability dictate development of the CRC immune microenvironment  | C-EX-1120-02          |
| Ulrike Peters                 | Fred Hutchinson Cancer Research Center | Transdisciplinary Research in Colorectal Cancer Health Disparities   | C-EX-1220-01          |
| <b>--2019--</b>               |  |  |                       |
| James Dowty                   | Univeristy of Melbourne                | Heritable methylation marks associated with colorectal cancer risk.  | C-AU-0319-02          |
| Robert Gryfe                  | Sinai Health System                    | Characterizing the role of the Commensal Flora in Colon Cancer.  | C-TO-0219-01          |
| Mark Jenkins                  | University of Melbourne                | DEPTH: A Novel Algorithm for Feature Ranking with Application to Colorectal Cancer GWAS Data.  | C-AU-1019-01          |
| Mark Jenkins                  | University of Melbourne                | Does the association between BMI (and height) and colorectal cancer risk differ by degree of family history of colorectal cancer?        | C-AU-0319-01          |

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| Christopher Li                | Fred Hutchinson Cancer Research Center            | Etiology and biology of site-specific metastases.  | C-EX-0219-02          |
| Yanxin Luo                    | Sixth Affiliated Hospital, Sun Yat-sen University | DNA methylation signatures and recurrence in early-stage colorectal cancer.  | C-EX-0219-01          |
| Emily Vogtmann                | National Cancer Institute                         | The relationship between the oral and fecal microbiota and cancer: A nested study within the CCFR Cohort                           | C-EX-0719-01          |
| <b>--2018--</b>               |   |  |                       |
| Darren Brenner                | Univ of Calgary                                   | Mutational signatures in young onset colorectal cancer: A pilot study.   | C-EX-1018-01          |
| Daniel Buchanan               | University of Melbourne                           | Building a tumorigenesis atlas to personalise the risk of colon cancer in people with Lynch syndrome.                              | C-AU-0818-01          |
| Daniel Buchanan               | University of Melbourne                           | Phase IV Core CCFR gMMR testing  | C-CP-1217-01-A1       |
| Steve Gallinger               | Mount Sinai Hospital; Univ of Toronto             | Association between Lysosomal Storage Disorder Gene and Pancreatic cancer.   | C-TO-1118-01          |
| Steve Gallinger               | Mount Sinai Hospital; Univ of Toronto             | Cancer Research UK (CRUK) Mutographs of Cancer: Discovering the causes of cancer through mutational signatures.                    | C-TO-1018-01          |
| Robert Gryfe                  | Mount Sinai Hospital; Univ of Toronto             | Next-generation sequencing classification of variants of unknown significance in Lynch syndrome.                                   | C-TO-0318-01          |
| John Hopper                   | University of Melbourne                           | Estimating the average CRC risks for the MMR gene variants in each category of the InSiGHT five-tiered classification system.      | C-AU-1118-01          |
| Xinwei Hua                    | Fred Hutchinson Cancer Research Center            | Inflammatory biomarkers genes, and colorectal cancer survival.   | C-SE-0618-01          |
| Holli Loomans                 | National Cancer Institute                         | Frameshift mutation detection in Lynch syndrome colorectal cancer patients.  | C-EX-0618-01          |
| Rish Pai                      | Mayo Clinic                                       | Clinicopathologic evaluation of small bowel carcinomas in patients with Lynch Syndrome.  | C-MA-1218-01          |
| Rish Pai                      | Mayo Clinic                                       | Development of a digital pathology library for development of artificial intelligence tools for colorectal carcinoma.              | C-MA-1218-02          |
| Rish Pai                      | Mayo Clinic                                       | Phase V Core CCFR Tumor IHC  | C-CP-0918-01          |
| Amanda Phipps                 | Fred Hutchinson Cancer Research Center            | Descriptive Overview of Colorectal Cancer Phenotypes.  | C-LA-0215-01-A1       |
| Jamaica Robinson              | Fred Hutchinson Cancer Research Center            | Neighborhood influences on survival and health-related quality of life following a colorectal cancer diagnosis.                    | C-EX-0518-01          |
| Uri Tabori                    | Hospital for Sick Children                        | The effect of telomerase activity and telomere length on the biological behavior of cancer.  | C-EX-1218-02          |
| <b>--2017--</b>               |   |  |                       |
| Jeff Bacher                   | Promega Corp                                      | Validation of a new biomarker panel for detection of MSI in colon cancers (Part I).  | C-EX-0817-01          |
| Jeff Bacher                   | Promega Corp                                      | Validation of a new biomarker panel for detection of MSI in extra-colonic cancers (Part II)  | C-EX-0817-02          |
| Alex Bisignano                | Phosphorus  | The discovery of novel genes and biomarkers of colon cancer using whole genome sequencing and determination of genetic penetrance. | C-EX-0517-01          |

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| Josee Dupuis                  | Boston University School of Medicine       | Novel statistical methods for multi SNPs / multi DNA methylation probes association study using the Ontario Familial Colon Cancer Registry.                   | C-EX-0717-01          |
| Sheetal Hardikar              | Fred Hutchinson Cancer Research Center     | Association between methylation patterns and cancer outcomes in unaffected relatives within Lynch families.   | C-EX-0917-01          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center     | Demographic and cancer-specific characteristics and outcomes of persons who deny a recent cancer diagnosis.   | C-SE-0117-01          |
| Constantinos Parisinos        | University College London                  | The role of hepatic metabolites, metabolic pathways and function in colorectal cancer.  | C-EX-0117-02          |
| Amanda Sheppard               | Cancer Care Ontario; Univ of Toronto       | Factors associated with colorectal cancer risk among self-identified First Nations participants in the OFCCR.   | C-EX-0417-01          |
| <b>--2016--</b>               |  |   |                       |
| Irene Andrulis                | Lunenfeld-Tanenbaum Research Institute     | Collaboration with OFBCR on the BRIDGES Project.  | C-EX-0416-01          |
| Nicholas Chia                 | Mayo Clinic                                | Simulation of Conditions Leading to Colon Cancer using Host-Microbiome Metabolic Modeling.  | C-EX-0316-02          |
| Peter Crouch                  | University of Melbourne                    | Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICPMS) imaging of colorectal cancers.   | C-EX-0416-02          |
| Steve Gallinger               | Mount Sinai Hospital; Univ of Toronto      | Characterization of colorectal cancer immune landscape.   | C-CP-1216-01          |
| Michael Hall                  | Fox Chase Cancer Center                    | Sarcoma: a Lynch syndrome associated malignancy?  | C-EX-0316-01          |
| Richard Hayes                 | New York University Langone Medical Center | Genes, Environment and Colorectal Cancer in People <50 Years of age.  | C-EX-0516-01          |
| Fred Hollande                 | University of Melbourne                    | Role of the tight junction protein claudin-2 in the regulation of colorectal cancer stem cells – consequences on post-treatment relapse and patient survival. | C-EX-0516-03          |
| Scott Kopetz                  | MD Anderson Cancer Center, Univ of Texas   | Colorectal cancer risk and survival by consensus molecular subtype.   | C-EX-1116-01          |
| Noralane Lindor               | Mayo Clinic                                | CCFR RNA QC Pilot, CORE project.  | C-CP-0616-01          |
| Josine Min                    | University of Bristol                      | Systematic identification of methylation quantitative loci and the link between methylation and complex traits.   | C-EX-0816-01          |
| Pal Moller                    | Oslo University Hospital                   | Prospective Lynch Syndrome Database Contribution.   | C-EX-0716-01          |
| Amanda Phipps                 | Fred Hutchinson Cancer Research Center     | Bacterial correlates of colorectal cancer subgroups and survival.   | C-SE-0816-01          |
| Steven Thibodeau              | Mayo Clinic                                | Phase IV Core CCFR IHC Testing.   | C-CP-0916-01          |
| Jeff Wrana                    | Lunenfeld-Tanenbaum Research Institute     | qTAP, A Novel Platform for Personalized Medicine in Cancer, a Study in Collaboration with Sinai Health System's OFCCR.  | C-EX-0416-03          |
| <b>--2015--</b>               |  |   |                       |
| James Church                  | Cleveland Clinic Foundation                | Genetic Pathways of Interval Colorectal Cancer.   | C-LA-0915-01          |
| Stacey Cohen                  | Fred Hutchinson Cancer Research Center     | Comparison of similarities and differences in tumor pathologic and molecular features between cases and their first-degree relatives with colorectal cancer.  | C-EX-0415-01          |
| Justin Guinney                | Sage Bionetworks                           | Integration of biomarkers with AJCC staging in colon cancer.  | C-EX-0115-01          |

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| Robert Haile                  | Stanford  | Hypomethylation-induced over-expression of oncogenes in cancer.   | C-ST-0515-01          |
| Robert Haile                  | Stanford  | The Breast and Colon Cancer Resilience Project.   | C-ST-0515-02          |
| Sheetal Hardikar              | Fred Hutchinson Cancer Research Center                    | Leukocyte telomere length differences and survival after colorectal cancer diagnosis.   | C-EX-0115-05          |
| John Hays                     | Ohio State University Wexner Medical Center               | The role of mucinous histology in the association between the use of nonsteroidal anti-inflammatory drugs (NSAIDs) and mortality from colorectal cancer.        | C-EX-0815-04          |
| Mark Jenkins                  | University of Melbourne                                   | Mechanisms for varying colorectal cancer risk (penetrance) for Lynch syndrome.  | C-AU-0815-02          |
| Maija Kohonen-Corish          | Garvan Institute of Medical Research                      | Investigation of Elevated Microsatellite Alterations at Selected Tetranucleotide (EMAST) repeats in Lynch Syndrome-associated CRC.                              | C-EX-0815-03          |
| Joan Levine                   | Stanford  | Screening Practices in Type X Colorectal Cancer Families.   | C-EX-0815-01          |
| Joan Levine                   | Stanford  | The role of Fusobacterium nucleatum in CIMP tumorigenesis.  | C-EX-1215-02          |
| Georg Luebeck                 | Fred Hutchinson Cancer Research Center                    | Multiscale Study of Tissue Aging, Field Cancerization, and Colorectal Screening.  | C-EX-0515-01          |
| Finlay Macrae                 | Internat'l Society of Gastrointestinal Hereditary Tumours | Submission of the germ line variants of mismatch repair genes detected by the Colon CFR to the InSiGHT Variant Interpretation Committee and relevant databases. | C-AU-0815-01          |
| Santos Manes                  | Centro Nacional de Biotecnologia                          | Identification of novel therapeutic targets for the treatment of cancer by means of genome-wide association studies (GWAS) and biological.                      | C-EX-0315-01          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center                    | International Survival Analysis in Colorectal Cancer Consortium (ISACC).  | C-SE-0815-01          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center                    | Serrated Colorectal Cancer: An Emerging Disease Subtype.  | C-SE-0415-01          |
| Maartje Nielsen               | Leiden University Medical Centre                          | Defining the non-colonic, non-endometrial cancer risks associated with a mono-allelic germline PMS2 mutation.   | C-EX-0615-01          |
| Harry Ostrer                  | Albert Einstein College of Medicine                       | Predicting Colon Cancer Risk from Functional Variant Assays.  | C-EX-0815-02          |
| Albert Tenesa                 | University of Edinburgh                                   | Colorectal cancer risk predictions from genome-wide SNP data and environmental risk factors.  | C-EX-0315-02          |
| Ursula Tsosie                 | Fred Hutchinson Cancer Research Center                    | Changes in multivitamin use after diagnosis of CRC.   | C-EX-0115-03          |
| Aung Ko Win                   | University of Melbourne                                   | Metabolic Factors, medical conditions, and Colorectal Cancer Risk.  | C-EX-0215-01          |
| Zhengdong Zhang               | Nanjing Medical University                                | Understanding the genetic effects on colorectal cancer risk.  | C-EX-0115-02          |
| <b>--2014--</b>               |   |   |                       |
| Driss Ait Ouakrim             | University of Melbourne                                   | Social determinants of colorectal cancer screening, treatment and outcomes in the Colon-CFR.  | C-EX-0914-01          |
| D. Timothy Bishop             | Institute of Genetic Medicine                             | Pharmacogenetic influences on colorectal chemoprevention using aspirin.   | C-EX-1213-01-A1       |

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| Daniel Buchanan               | University of Melbourne                     | Multiple and integrative approaches to unravelling the aetiology of FCCTX.   | C-AU-1014-02          |
| Daniel Buchanan               | University of Melbourne                     | Phase IV KRAS_BRAF somatic mutation in CRCs from C-CFR.  | C-CP-0814-01          |
| Daniel Buchanan               | University of Melbourne                     | Somatic mutations and additional molecular characterization of individuals with suspected Lynch syndrome.                        | C-AU-1014-01          |
| Stacey Cohen                  | Fred Hutchinson Cancer Research Center      | Evaluation of the impact of aspirin/NSAID therapy on the development of cancer in Familial Colorectal Cancer Type X families.    | C-EX-0914-02          |
| David Conti                   | University of Southern California           | A Bayesian Hierarchical Quantile Regression Model to Prioritize GWAS Results.  | C-EX-0314-01          |
| Steve Gallinger               | Lunenfeld-Tanenbaum Research Institute      | Molecular Characterization of Familial Colorectal Cancer Type X.   | C-TO-1014-01          |
| Mark Jenkins                  | University of Melbourne                     | Genetics and Epigenetics of incident CRCs from the C-CFR.  | C-AU-0814-01          |
| Noralane Lindor               | Mayo Clinic                                 | Following Up Leads from the CCFR Custom Capture Sequencing.  | C-MA-0814-01          |
| Noralane Lindor               | Mayo Clinic                                 | PMS2-related Lynch Syndrome: Consideration of cancer screening recommendations.  | C-MA-0614-01          |
| Georg Luebeck                 | Fred Hutchinson Cancer Research Center      | Tissue Aging and Tumor Heterogeneity in Colorectal Cancer: A Multiscale Approach.  | C-EX-0514-01          |
| Paul Marjoram                 | University of Southern California           | Exploration of somatic mutations rates in Colon CCFR samples.  | C-EX-0514-02          |
| Elena Martinez                | UC San Diego                                | Clinical Strategies for Identifying Individuals at Risk for Young Onset CRC: A Colon CFR-based Study.                            | C-EX-1114-01          |
| Maartje Nielsen               | Leiden University Medical Centre            | Cancer risk in family members of CMMR-D patients.  | C-EX-0314-02          |
| Mala Pande                    | MD Anderson Cancer Center                   | Effect of Physical Activity on Colorectal Cancer Risk in MMR-Mutation Carriers and their MMR-intact Relatives.                   | C-EX-0314-03          |
| Amanda Phipps                 | Fred Hutchinson Cancer Research Center      | POLE Mutations in Colorectal Cancer: Identification and characterization of an emerging driver in colorectal cancer development. | C-EX-0614-02          |
| Leonid Raskin                 | Vanderbilt                                  | Targeted sequencing of CRC cases and controls.   | C-EX-0814-01          |
| Bryony Thompson               | The Royal Melbourne Hospital                | Evaluation of Mismatch Repair Gene Unclassified Sequence Variants.   | C-EX-0806-02-A1       |
| Zhe Wang                      | Fred Hutchinson Cancer Research Center      | Red Meat Consumption and Colorectal Cancer Incidence and Mortality in Seattle CCFR Study.  | C-EX-0214-01          |
| Aung Ko Win                   | University of Melbourne                     | Risk factors for colorectal cancer by molecular subtypes.  | C-EX-0514-03          |
| Joanne Young                  | The Queen Elizabeth Hospital                | MSI-H Colorectal Cancers in the Distal Colorectum: are they associated with early-onset Lynch syndrome?                          | C-EX-0614-01          |
| <b>--2013--</b>               |   |  |                       |
| Jeff Bacher                   | Promega Corp                                | Validation of a novel MSI panel.   | C-EX-1013-03          |
| John Baron                    | University of North Carolina at Chapel Hill | Exogenous Estrogens, Reproductive History and Colorectal Cancer.   | C-LA-0213-01          |

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| Bernard Bochner               | MSKCC                                  | Genetic Sequencing of Urothelial Cancers in Patients with Lynch Syndrome.   | C-EX-1113-01          |
| Daniel Buchanan               | University of Melbourne                | Clinicopathological, molecular and epigenetic features of colorectal cancers that are predictive of germline MUTYH gene mutations.                | C-AU-1013-02          |
| Daniel Buchanan               | University of Melbourne                | Clinicopathological, molecular and epigenetic features of sebaceous lesions from MMR gene mutation carriers.                                      | C-AU-1013-01          |
| Graham Casey                  | Keck School of Medicine, USC           | Genotyping of Colon CFR DNA samples using the OncoArray.  | C-CP-0713-01          |
| Sean Cleary                   | University of Toronto                  | Genetic variants associated with colorectal cancer survival: validation of HIF2A and HIF2B variants in OFCCR.                                     | C-EX-0513-01          |
| Carolyn Compton               | Arizona State University               | Critical Decision-making Support Tool for Colon Cancer Patients and their Caregivers.   | C-EX-0713-01          |
| Victoria Cortessis            | University of Southern California      | Genome-wide Association Analysis of Testicular Germ Cell Tumors.  | C-EX-0613-01          |
| Wendy Cozen                   | University of Southern California      | Meta-analysis of genome-wide association studies of multiple myeloma risk.  | C-LA-0213-02          |
| Chu Gan                       | Royal Melbourne Hospital               | Validation of MMR prediction models in the Chinese populations.   | C-EX-0813-01          |
| Mark Jenkins                  | University of Melbourne                | Worldwide Study of Cancer Risk for Lynch Syndrome.  | C-AU-0113-01          |
| Sonia Kupfer                  | University of Chicago                  | Cancer risks and mutation spectrum of mismatch repair gene mutations in African American families with Lynch syndrome.                            | C-EX-0613-02          |
| Diether Lambrechts            | VIB                                    | Novel MSI Marker Panel and de Novo Mutations in MMR Gene Mutation Carriers.   | C-EX-1013-02          |
| Noralane Lindor               | Mayo Clinic                            | Expanded Characterization of Familial Colorectal Cancer Type X.   | C-CP-0307-01-A1       |
| Georg Luebeck                 | Fred Hutchinson Cancer Research Center | Biological modeling and risk prediction for colorectal cancer.  | C-SE-0113-01          |
| Ulrike Peters                 | Fred Hutchinson Cancer Research Center | Molecular pathological epidemiology of colorectal cancer.   | C-EX-0913-02          |
| Amanda Phipps                 | Fred Hutchinson Cancer Research Center | Racial/ethnic differences in the prevalence of PIK3CA mutations in colorectal cancer.   | C-EX-0913-02          |
| Douglas Stupart               | Deakin University                      | Fecundity bias in detecting genetic anticipation in Lynch syndrome.   | C-EX-0513-02          |
| Albert Tenesa                 | University of Edinburgh                | Estimation of aggregate pleiotropy between BMI, colon and rectal cancer using CFR population-based and clinic-based cases, controls and families. | C-EX-0113-01          |
| Fränzel van Duijnhoven        | Wageningen University                  | Collaborative Study on the Role of Lifestyle Factors, Diet, Body Fatness Development of Tumours in Lynch Syndrome.                                | C-EX-1213-02          |
| Aung Ko Win                   | University of Melbourne                | Childhood Cancers in Families with and without Mismatch Repair Gene Mutations.  | C-EX-1013-01          |

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| Dennis Ahnen                  | University of Colorado School of Medicine                 | Molecular Identification of Lynch Syndrome.   | C-LA-0711-01          |
| Rajani Bharati                | University of Melbourne                                   | Family History of Colorectal Cancer as a risk factor for Endometrial Cancer.  | C-EX-0412-02          |
| Jason Bielas                  | Fred Hutchinson Cancer Research Center                    | Novel Biomarkers of Disease.  | C-EX-0613-03          |
| Laurent Briollais             | Samuel Lunenfeld Research Institute, Mount Sinai Hospital | Development of Multistate Models for Screening Evaluation and Risk Estimation in Lynch Syndrome Families.   | C-EX-0212-01          |
| Daniel Buchanan               | University of Melbourne                                   | Young Onset Colorectal Cancer: Genetics, Pathology And Environment.   | C-AU-0312-01          |
| Rowena Chau                   | University of Melbourne                                   | Profiling risk of familial colorectal cancers using data mining.  | C-EX-0412-01          |
| Steve Gallinger               | Mount Sinai Hospital; Univ of Toronto                     | HOXB13 G84E mutation in a colorectal cancer population.   | C-TO-0512-01          |
| Anthony Gill                  | Royal North Shore Hospital                                | Investigation of mutation specific immunohistochemistry for BRAFV600E to distinguish Lynch syndrome from somatic hypermethylation as a cause of negative staining for DNA mismatch repair proteins. | C-EX-0212-02          |
| Stacey Hart                   | Ryerson University  | Long-term Physical and Psychological Outcomes in Colorectal Cancer Survivors.   | C-EX-1111-05          |
| Joanne Kim                    | University of Toronto                                     | Investigating the effectiveness of predictive genetic testing for colorectal cancer in modifying lifestyles and improving health.   | C-EX-0911-03          |
| Mercy Laurino                 | Fred Hutchinson Cancer Research Center                    | The Return of Research Results in the Colorectal Cancer Family Registry.  | C-EX-0412-04          |
| Ariadne Letra                 | Univ of Texas Health Science Center at Houston            | Identification of genetic pathways linking tooth agenesis to colorectal cancer.   | C-EX-1111-03          |
| Noralane Lindor               | Mayo Clinic   | Protein Microarray Signature of Autoantibody Biomarker for Detection of Colorectal Cancer.  | C-MA-0412-01          |
| Duncan Thomas                 | University of Southern California                         | Study design for next generation sequencing.  | C-LA-0412-01          |
| Aung Ko Win                   | University of Melbourne                                   | Studying tumor pathology features of colorectal cancer cases.   | C-EX-1111-02          |
| Y. Nancy You                  | MD Anderson Cancer Center, Univ of Texas                  | Young-onset microsatellite stable colorectal cancer.  | C-EX-0212-03          |
| <b>--2011--</b>               |   |   |                       |
| David Conti                   | University of Southern California                         | Incorporating intermediate biomarkers in a pathway-based model of folate and colon cancer.  | C-EX-1211-01          |
| Mark Jenkins                  | University of Melbourne                                   | Development of a Comprehensive Model for Colorectal Cancer Risk Predication.  | C-AU-1210-01          |
| Joan Levine                   | University of Southern California                         | Risk of Colorectal or Other Cancers in MLH1 Methylated Cases.   | C-CP-0111-01          |

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| Noralane Lindor               | Mayo Clinic                              | Efficacy of Treatment of Colon Cancer with Fluorouracil Treatment in Hereditary DNA Mismatch Repair Deficiency Syndrome (Lynch Syndrome). | C-MA-1110-01          |
| Noralane Lindor               | Mayo Clinic                              | Urologic tumors in Lynch Syndrome and Familial Colorectal Cancer Type X.  | C-MA-0311-02          |
| Paul Marjoram                 | University of Southern California        | Assessing Optimal Follow-up to Associations from GWAS.  | C-EX-0111-02          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center   | Predictors of colorectal cancer screening in relatives of CRC patients.   | C-SE-0504-01S-A1      |
| Ian Tomlinson                 | Cancer Research UK Edinburgh Centre      | Use of CCFR controls to improve the power of other cancer GWAS.   | C-EX-0411-01          |
| Aung Ko Win                   | University of Melbourne                  | Clinical Outcomes after Colorectal Surgery.   | C-AU-1110-01-A1       |
| Aung Ko Win                   | University of Melbourne                  | Germline de novo mutations in DNA mismatch repair genes.  | C-EX-0111-01          |
| Aung Ko Win                   | University of Melbourne                  | Risk factors of early-onset colorectal cancer.  | C-EX-1010-01          |
| <b>--2010--</b>               |  |   |                       |
| Scott Adams                   | Fred Hutchinson Cancer Research Center   | Impact of Inflammatory Bowel Disease on CRC Mortality.  | C-EX-1209-01          |
| Driss Ait Ouakrim             | University of Melbourne                  | Colorectal Cancer Screening in Australia.   | C-EX-1008-01          |
| Lisa Boardman                 | Mayo Foundation                          | Are Germline PKHD1 Mutations Protective Against Colorectal Cancer?  | C-EX-0410-01          |
| Daniel Buchanan               | University of Melbourne                  | Genetic Modifiers of MUTYH-associated Polyposis.  | C-AU-0410-01          |
| George A Calin                | MD Anderson Cancer Center, Univ of Texas | Identification of Non-Coding RNAs Involved in CRC Predisposition.   | C-EX-0509-01          |
| Peter Campbell                | American Cancer Society                  | Obesity-related Genes FTO and MC4R and Risk of Colorectal Cancer.   | C-EX-0710-04          |
| Louisa Flander                | University of Melbourne                  | Personal colorectal cancer risk, gene testing and prevention behaviour in mutation-carrying families.                                     | C-EX-0309-02          |
| Brooke Fridley                | Mayo Clinic                              | Analysis of 8q24 for seven cancers for association reveals common locus for cancer risk.  | C-EX-0810-01          |
| Stephen Gruber                | Norris Comprehensive Cancer Center, USC  | Transdisciplinary Studies of Genetic Variation in Colorectal Cancer (CORECT).   | C-EX-1110-02          |
| Joan Levine                   | University of Southern California        | Dietary Supplements and CRC Risk in the Colon Cancer Family Registry.   | C-EX-0410-02          |
| Noralane Lindor               | Mayo Clinic                              | Immunohistochemistry for DNA Mismatch Repair Genes in Prostate Cancers Arising in Men with MMR Gene Mutations.                            | C-MA-1010-01          |
| Noralane Lindor               | Mayo Clinic                              | Oligodontia in Colorectal Cancer.   | C-MA-1109-01          |
| Noralane Lindor               | Mayo Clinic                              | VTR_Admin Supplement for the Familial Colorectal Neoplasia Collaborative Group U01 CA074800.  | C-CP-0910-01          |
| Xaviar Llor                   | Yale University School of Medicine       | Ascertainment of Genes Responsible for Hereditary Non-Polyposis Colorectal Cancer without Mismatch Repair                                 | C-EX-0610-01          |



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| <b>Principal Investigator</b> | <b>PI Institution</b>                                      | <b>Application Title</b>  | <b>Application ID</b> |
|-------------------------------|--|---|-----------------------|
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center                     | Common Medications and Risk of Colorectal Cancer.   | C-SE-0510-01          |
| Katy Newton                   | Central Manchester University Hospitals Trust              | DNA Mismatch Gene Promoter Region Methylation Analysis and BRAF Gene Mutation Analysis- an Alternative Prescreening Strategy in Lynch Syndrome (Hereditary Nonpolyposis Colorectal Cancer). | C-EX-0710-01          |
| Mala Pande                    | MD Anderson Cancer Center                                  | Identification of novel susceptibility markers associated with the breast-colon family phenotype from Genome-Wide Scan data.  | C-EX-1209-02          |
| Susan Parry                   | Middlemore Hospital and Auckland City                      | Clinical Outcomes for MMR Gene Mutation Carriers Following Colorectal Cancer Surgery.   | C-AU-1109-01          |
| William Pollett               | Memorial University of Newfoundland                        | Adherence to Clinical Practice Guidelines for Adjuvant Therapy in Patients with Stage I-III Rectal Cancer: Experience in Two Canadian Provinces.  | C-EX-0805-07-A1       |
| Stephen Scherer               | Hospital for Sick Children                                 | International Psychiatric Genetics Consortium.  | C-EX-0910-01          |
| Duncan Thomas                 | University of Southern California                          | Methods of Pathway Analysis with Application to Folate.   | C-LA-0910-01          |
| Michael Walsh                 | Queensland Institute of Medical Research                   | Diagnostic usefulness of adenomas in Lynch Syndrome.  | C-EX-1009-02          |
| Aung Ko Win                   | University of Melbourne                                    | Environmental Modifiers of Endometrial Cancer Risks among Carriers of Germline Mutations in DNA Mismatch Repair Gene.   | C-EX-0410-03          |
| Aung Ko Win                   | University of Melbourne                                    | Use of Aspirin and Other Non-Steroidal Anti-Inflammatory Drugs and CRC Risk for Carriers of Germline Mutations in DNA Mismatch Repair Gene.   | C-EX-0710-03          |
| Shuanglin Zhang               | Michigan Technological University                          | Statistical Models for Family-based Association Studies.  | C-EX-0210-02          |
| <b>--2009--</b>               |  |   |                       |
| Daniel Buchanan               | University of Melbourne                                    | A Case-Control Genome-Wide Association Study to Identify the Locus Responsible for Hyperplastic Polyposis Syndrome.   | C-AU-0808-01          |
| Daniel Buchanan               | University of Melbourne                                    | BRAF V600E somatic mutation in Colorectal Cancer - Phase I, II and III Proband.   | C-CP-0309-02          |
| Daniel Buchanan               | University of Melbourne                                    | Testing for Germline mutations in PMS2 in the Colon-CFR - Phase II and III Probands.  | C-CP-0309-01          |
| Antoni Castells               | University of Barcelona, Spain                             | Identification of Mismatch Repair Gene Carriers in Patients with Colorectal Cancer: A Pooled Data Analysis.   | C-EX-0509-04          |
| Rachel Ceballos               | Fred Hutchinson Cancer Research Center                     | QOL in the Seattle C-CFR.   | C-EX-0808-06          |
| Sean Cleary                   | University of Toronto                                      | The association of cigarette smoking and genetic polymorphisms in carcinogen metabolizing enzymes with pancreatic cancer risk.  | C-EX-0109-01          |
| Malcolm Dunlop                | MRC Human genetics Unit Western General Hospital Edinburgh | Genetic profiling of colorectal cancer risk.  | C-EX-0109-02          |

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| Malcolm Dunlop                | MRC Human genetics Unit Western General Hospital Edinburgh | Pooled analysis of Colon-CFR genome-wide association data.   | C-EX-0509-02          |
| William Foulkes               | Sir Mortimer B. Davis Jewish General Hospital              | Allelic expression of spindle assembly checkpoint genes in colorectal cancer.                                      | C-EX-0309-01          |
| Steven Gallinger              | Cancer Care Ontario; Univ of Toronto                       | The Base Excision Repair Gene, MYH, and Colorectal Cancer"- phase II and III probands.                             | C-CP-0109-01          |
| Lyle Gurrin                   | University of Melbourne                                    | SNPs of iron metabolism and risk colorectal cancer.  | C-EX-0409-01          |
| Mark Jenkins                  | University of Melbourne                                    | Anthropometry and Colorectal Cancer Risk in Mismatch Repair Gene Mutation Carriers.                                | C-AU-0909-01          |
| Mark Jenkins                  | University of Melbourne                                    | Genetic modifiers of cancer risk for mismatch repair mutation carriers: SNPs from genome wide association studies. | C-AU-0409-01          |
| Loic Le Marchand              | University of Hawaii at Manoa                              | Colorectal Cancer GWAS in Japanese and African Americans.  | C-HA-0309-01          |
| Noralane Lindor               | Mayo Clinic  | Methylation of the MMR Genes in Individuals with Loss of Expression of MSH2 in CRC but No Mutation Detected.       | C-AC-0109-01          |
| Roger Milne                   | Spanish National Cancer Research Centre (CNIO)             | Variation in genes related to inflammation and tumor progression and risk of pancreatic cancer.                    | C-EX-0409-02          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center                     | Factors Associated with Survival After Colorectal Cancer.  | C-SE-0109-02          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center                     | NSAID Use and Colorectal Cancer Survival in a CFR Population.  | C-SE-0109-01          |
| Ulrike Peters                 | Fred Hutchinson Cancer Research Center                     | Colorectal Cancer GWAS Consortium (GECCO).   | C-EX-0509-03          |
| Steven Thibodeau              | Mayo Clinic  | Ph II & III DNA mutation analysis for MLH1/MSH2/MSH6 and Custom Capture.   | C-CP-0409-01          |
| Cornelia Ulrich               | Huntsman Cancer Institute                                  | NSAID Metabolism, Cox/PG Pathway and Colorectal Cancer.  | C-SE-1203-01-A1       |
| <b>--2008--</b>               |  |  |                       |
| Haitao Chu                    | UNC-Chapel Hill  | Diagnosis and risk factors of microsatellite instability.  | C-EX-1107-01          |
| Timothy Church                | University of Minnesota School of Public Health            | Colorectal Cancer Family History Screening Validation Project.   | C-LA-0408-01          |
| Steve Gallinger               | Mount Sinai Hospital; Univ of Toronto                      | PanScan II.  | C-TO-0408-01          |
| John Hopper                   | University of Melbourne                                    | Candidate gene study using Colon CFR population-based and clinic-based cases, controls and families.               | C-AU-0808-02          |
| Mark Jenkins                  | University of Melbourne                                    | Cancer Risk for Germline Mutations in hPMS2.   | C-AU-1007-01          |
| Mark Jenkins                  | University of Melbourne                                    | Modeling environmental and genetic modifiers of mismatch repair gene mutations using family data.                  | C-AU-0208-01          |
| Loic Le Marchand              | University of Hawaii at Manoa                              | Genome-Wide Association of Gene Variation and Expression in Colorectal Cancer.                                     | C-HA-1207-01          |

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| Joan Levine                   | University of Southern California                                   | Global DNA Hypomethylation in PBLs as a potential biomarker of CRC Risk.  | C-EX-1207-01          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center                              | Human papillomavirus association with subsets of colorectal cancer.   | C-SE-0408-01          |
| Boris Pasche                  | University of Alabama at Birmingham                                 | The role of the adiponectin, leptin and insulin pathway in colon cancer.  | C-EX-0808-03          |
| <b>--2007--</b>               |   |   |                       |
| Yoland Antill                 | Peter MacCallum Cancer Centre                                       | Studies into Gynecological Cancers Associated with the Syndrome: Hereditary Nonpolyposis Colon Cancer.  | C-EX-0706-02          |
| Bharati Bapat                 | Mount Sinai Hospital; Univ of Toronto                               | Epigenetic Contribution of Wnt Pathway Regulatory Genes to Colorectal Cancer.   | C-TO-1206-01          |
| Lisa Boardman                 | Mayo Foundation   | Genetic Epidemiology of Telomere Length and Telomere Maintenance Genes.   | C-EX-0407-01          |
| Graham Casey                  | Keck School of Medicine, USC  | Identification of Gene Expression Patterns Related to Genetic Subclasses of CRCs using the Affymetrix Whole Exon Gene Expression Array (CORE Activity). | C-CP-0107-01          |
| Carolyn Gotay                 | University of Hawaii at Manoa                                       | An Online Exercise Program for Individuals At Risk of Colorectal Cancer: A Pilot Study.   | C-HA-0806-02          |
| Garry Hannan                  | CSIRO Molecular & Health Technologies                               | Genome Wide Association Study to Identify Novel Genetic Modifiers of the Hereditary Non-polyposis Colorectal Cancer (HNPCC) Gene, HMLH1.                | C-EX-1206-03          |
| Garry Hannan                  | CSIRO Molecular & Health Technologies                               | Novel CRC Genes: High Throughput Screening for Genetic Analysis of Colorectal Cancer Risk.  | C-EX-1206-02          |
| Wendy Kohlmann                | Huntsman Cancer Institute   | The Effect of Smoking on Urothelial Cancer Risk in Individuals with HNPCC.  | C-EX-0906-01          |
| Loic Le Marchand              | University of Hawaii at Manoa                                       | Inflammation and Innate Immunity Genes and Colorectal Cancer.   | C-HA-0806-01          |
| Loic Le Marchand              | University of Hawaii at Manoa                                       | 8q24 and Colorectal Cancer in the CCFR.   | C-CP-0407-01          |
| Noralane Lindor               | Mayo Clinic   | Development of a Family-Based Cancer Prevention Intervention for Cancer Survivors who are Family Members.   | C-MA-0407-01          |
| Gail McKeown-Eyssen           | University of Toronto   | Familial Clustering Of Environmental And Genetic Risk Factors: Extension of Analytic Methods.   | C-AC-0707-01          |
| Andreas Obermair              | Queensland Centre for Gynaecological Cancer                         | Incidence of Endometrial Cancer in Lynch Syndromes after a Diagnosis of Colorectal Cancer.  | C-EX-0706-01          |
| Mala Pande                    | MD Anderson Cancer Center   | Smoking as a modifier of risk of colorectal cancer in Lynch syndrome.   | C-EX-0307-01          |
| Giovanni Parmigiani           | Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University | Extending MMRpro to Handle Misreported Family History.  | C-EX-1106-01          |
| Harry Prapavessis             | University of Western Ontario                                       | Initiating and Maintaining Exercise in Relatives of Colorectal Cancer: A Test of Self-Regulation Theory.  | C-EX-0407-03          |
| Michael Reedijk               | University Health Network   | Activation of Notch Signaling in Human Colon Cancer, Clinicopathologic Correlations.  | C-EX-0806-04-A1       |

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| Betsy Risendal                | University of Colorado and Denver Health Sciences Center                              | Quality of Life and Health-Related Behaviors among Long-Term Colon Cancer Survivors.   | C-EX-0407-02          |
| Mark Silverberg               | University of Toronto, Mount Sinai Hospital   | Genetic Predictors of Gastrointestinal Cancer in Patients with Inflammatory Bowel Disease.   | C-EX-1206-04          |
| Sapna Syngal                  | Dana-Farber Cancer Institute, Brigham and Women's Hospital and Harvard Medical School | External Validation and Comparison of PREMM Model with Current Predictive Models for Lynch Syndrome.   | C-EX-1006-01          |
| Sapna Syngal                  | Dana-Farber Cancer Institute, Brigham and Women's Hospital and Harvard Medical School | The Prevalence of p53 Germline Mutations in Very Young-Onset Colorectal Cancer.  | C-EX-1206-05          |
| Csilla Szabo                  | Mayo Clinic   | Candidate Gene Screening in Familial Breast-Colon Cancer.  | C-EX-1206-01          |
| Jensen Tan                    | University of Toronto   | Processes of Care after Colorectal Cancer Surgery in Ontario.  | C-EX-1007-01          |
| Ian Tomlinson                 | Cancer Research, United Kingdom   | Validation or Rejection of Genetic Variants with Suggestive Association with Increased Risk of Colorectal Cancer.  | C-EX-0807-01          |
| Michael Woods                 | Memorial University of Newfoundland   | Genetic Anticipation and Parent-of-Origin Effects in Families with Mismatch Repair Defects.  | C-EX-0107-01          |
| Brent Zanke                   | Cancer Care Ontario; Univ of Toronto  | Cancer Risk Evaluation (CaRE) Program.   | C-EX-0807-02          |
| <b>--2006--</b>               |   |  |                       |
| Daniel Buchanan               | University of Melbourne   | BAT26 Stability in MMR Deficient Tumours as an Indication of Large Deletions in Exon 5 of MSH2.  | C-AU-0506-01          |
| Daniel Buchanan               | University of Melbourne   | Genetics of Serrated Neoplasia.  | C-AU-0506-02          |
| Daniel Buchanan               | University of Melbourne   | Pilot Study of BRAF Mutation Levels in Clinic-Based Colorectal Cancer Families.  | C-AU-0406-02          |
| Daniel Buchanan               | University of Melbourne   | Pilot Study of LCL Expression Arrays in Hyperplastic Polyposis.  | C-AU-0406-01          |
| Daniel Buchanan               | University of Melbourne   | Preliminary Linkage Analysis of Serrated Pathway Families.   | C-AU-0805-05          |
| Daniel Buchanan               | University of Melbourne   | The Molecular Characterization of Endometrial Tumours.   | C-AU-0406-03          |
| Graham Casey                  | Keck School of Medicine, USC  | Genomic Wide Association Study of Colorectal Cancer.   | C-LA-0806-01          |
| Albert de la Chapelle         | Ohio State University   | Characterization of Mutations in the PMS2 Gene in Samples from the Colon Cancer Family Registry.   | C-EX-0806-01          |
| Mary Jane Esplen              | Toronto General Research Institute  | A Pilot Study Investigating the Offer to Disclose Genetic Test Results to CFR Participants.  | C-EX-0806-05          |
| Anna Gagliardi                | Sunnybrook Health Sciences Centre, Toronto  | Exploring the Cognitive Processes that Influence Intra-Operative Decisions during Colorectal Cancer Surgery: Qualitative Analysis of Operative Notes and Surgeon Interviews. | C-EX-0506-03          |

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| Carolyn Gotay                 | University of Hawaii at Manoa              | Communication about Colorectal Cancer in Japanese and Caucasian Survivors.   | C-HA-0806-03          |
| Virginia Hartmuller           | National Cancer Institute                  | Proposal to Compare and Evaluate Responses to the Diet-Specific Questions on the Epidemiology Questionnaire in the Colon CFR.                                      | C-CP-0206-01          |
| Mark Jenkins                  | University of Melbourne                    | Colorectal Cancer Risk for Germline Mutations in hMLH1 and hMSH2.  | C-CP-0606-03          |
| Joan Levine                   | University of Southern California          | Risk Factors for hMLH1 promoter region methylation in sporadic colorectal cancer.  | C-CP-0506-03          |
| Paul Limburg                  | Mayo Clinic                                | Associations between excess body weight and colorectal cancer risk, overall and by MSI phenotype.  | C-CP-0506-02          |
| Jan Lowery                    | University of Colorado                     | An Evaluation of the Association Between Physical Activity and MSI in Colon Cancer.  | C-CP-0506-01          |
| David Martin                  | Children's Hospital Oakland Research Inst. | Somatic MLH1 Epimutation and Sporadic MSI Cancer Risk.   | C-EX-0406-02          |
| John McLaughlin               | Prosserman Centre for Health Research      | The Ontario Population Genomics Platform (OPGP).   | C-TO-0406-01          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center     | Combined Postmenopausal Hormone Use in Relation to Subtypes of CRC defined by MSI, MMR and Methylation Status.   | C-CP-0806-01          |
| Jenny Poynter                 | University of Southern California          | Descriptive Characteristics and Familial Aggregation of MLH1 Promoter Methylation.   | C-CP-0506-04          |
| Jenny Poynter                 | University of Southern California          | History for Predicting MMR Mutations.  | C-CP-0506-06          |
| Jenny Poynter                 | University of Southern California          | Sensitivity, Specificity and Predictive Values for Immunohistochemistry, Microsatellite Instability and Family History for Predicting MMR Mutations.               | C-CP-0506-05          |
| Pamela Sinicrope              | Mayo Clinic                                | A Pilot Study to Compare General Attitudes toward Medical Significance Thresholds among Study Participants, Genetics Researchers, and Institutional Review Boards. | C-EX-0806-06          |
| Steven Thibodeau              | Mayo Clinic                                | Colorectal Cancer Risk for Germline Mutations in hMSH6.  | C-CP-0606-01          |
| Steven Thibodeau              | Mayo Clinic                                | MSH6 (lab manuscript).   | C-CP-0606-02          |
| Peter Wang                    | Memorial University of Newfoundland        | Exploration of Risk Factors, Inter-provincial Differences and Risk Modifiers of Colorectal Cancer.   | C-EX-0506-02          |
| Robyn Ward                    | Univ. of New South                         | Germline Epimutation of MLH1 as a Factor in HNPCC.   | C-EX-1205-01          |
| <b>--2005--</b>               |  |  |                       |
| Carl Brown                    | University of Toronto                      | Survival in Patients with Inflammatory Bowel Disease Who Develop Colorectal Cancer.  | C-TO-0405-02          |
| Daniel Buchanan               | University of Melbourne                    | Studies of Breast Cancers in HNPCC Kindreds.   | C-AU-0805-04          |
| Mary Jane Esplen              | Toronto General Research Institute         | A RCT of Cancer Risk and Health Education in Relatives of Colorectal Cancer Patients.  | C-TO-0405-01-A1       |
| Marsha Frazier                | MD Anderson Cancer Center, Univ of Texas   | Genetic Modifiers of Hereditary Nonpolyposis Colorectal Cancer.  | C-EX-0405-02          |
| Robert Gryfe                  | Mount Sinai Hospital                       | MSI-H Colorectal Cancer Genotype and Phenotype.  | C-TO-0405-03          |

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| Jeremy Jass                   | McGill University                         | Evaluation of Histology Features as Markers for DNA Mismatch Repair Deficiency in Colorectal Cancer.   | C-AU-0899-01          |
| Noralane Lindor               | Mayo Clinic                               | A Gene-Environment study of a-1 Antitrypsin Deficiency as a Risk Factor for Mismatch Repair Deficient CRC in Smokers and Non-Smokers.              | C-MA-0805-01          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center    | Predictors of Agreement to Provide a Blood or Buccal Biospecimen Sample.   | C-SE-0305-01          |
| Michael Siciliano             | MD Anderson Cancer Center, Univ of Texas  | MSI in Putatively Stable HNPCC Families.   | C-EX-0405-01          |
| Mariana Stern                 | Keck School of Medicine, USC              | DNA Repair and Colorectal Cancer Risk Within the USCC (Amendment).   | C-LA-0402-01-C05-A1   |
| Cornelia Ulrich               | Huntsman Cancer Institute                 | Folate, Pharmacogenetics, and Colorectal Cancer Survival.  | C-EX-0805-06          |
| Debrah Wirtzfeld              | Memorial University of Newfoundland       | Prognostic Determinants in Incident Cases of Colorectal Cancer (CRC): A Comparison Between Ontario & Newfoundland Incident Cases of CRC 1999-2000. | C-EX-0805-07          |
| <b>--2004--</b>               |   |  |                       |
| Dennis Ahnen                  | University of Colorado School of Medicine | Colorectal Screening Practices in Members of High Risk Families.   | C-LA-0804-02S         |
| C. Richard Boland             | Baylor University Medical Center          | Using CFR Resources to Study HNPCC.  | C-EX-1203-01          |
| Deborah Bowen                 | Fred Hutchinson Cancer Research Center    | Increasing Colon Screening with an Interactive Website.  | C-SE-0404-01          |
| Manuela Gago-Dominguez        | University of Southern California         | A Genetic Epidemiological Study of Lipid Peroxidation in Colorectal Cancer.  | C-LA-0404-01          |
| Steve Gallinger               | Mount Sinai Hospital; Univ of Toronto     | The Base Excision Repair Gene, MYH, and Colorectal Cancer.   | C-TO-1203-01          |
| Robert Haile                  | University of Southern California         | Genes Related to Folate and Vitamin D/Calcium.   | C-LA-1203-01          |
| Kelly Kohut                   | Sarah Lawrence College                    | Duty to Warn family about an HNPCC mutation.   | C-TO-1299-01-C04      |
| Nancy Kreiger                 | Cancer Care Ontario; Univ of Toronto      | Prevalence of Helicobacter Pylori infection in Ontario.  | C-TO-0404-01          |
| Peter Laird                   | Keck School of Medicine, USC              | CpG Island Methylator Phenotype in Colorectal Cancer.  | C-LA-1203-02          |
| Loic Le Marchand              | University of Hawaii at Manoa             | Epidemiologic Research on Ethnic/Racial Minorities in the Colon CFR.   | C-HA-1203-01          |
| Sanford Markowitz             | Case Western Reserve University           | A 9q22.2 Gene is a Novel Cause of Familial Colon Cancer.   | C-EX-1203-03          |
| Elena Martinez                | Arizona Cancer Center, University of AZ   | Susceptibility to Insulin Resistance Syndrome and Risk of Colorectal Cancer.   | C-LA-0804-01          |
| Gail McKeown-Eyssen           | University of Toronto                     | Response Bias From Failure to Provide a Blood Sample Among Participants in the Ontario Family Colorectal Cancer Registry (OFCCR).                  | C-TO-0304-01S         |
| Walter W. Noll                | Myriad Genetics Laboratories, Inc.        | Mismatch Repair Gene Mutations in Early Colorectal Cancer.   | C-EX-0804-01          |

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| Giovanni Parmigiani           | Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University | Validation of the CRCAPRO carrier probability model.   | C-EX-0104-01          |
| Brent Zanke                   | Cancer Care Ontario; Univ of Toronto                                | Assessment of Risk for Colon Tumors in Canada (ARCTIC).  | C-EX-1203-02-A1       |
| <b>--2003--</b>               |   |  |                       |
| Bharati Bapat                 | Mount Sinai Hospital; Univ of Toronto                               | The Role of Polymorphisms in Mismatch Repair Genes in the Development of Colon Cancer.   | C-TO-0503-01          |
| Robert Beart                  | Keck School of Medicine, USC  | Genetic Staging of Colon Cancer.   | C-EX-0803-04-A1       |
| D. Timothy Bishop             | St. James's University Hospital                                     | Quantifying and Modelling Cancer Risks in Relatives of Population-Based Colorectal Cancer Cases and Controls.  | C-EX-0803-01          |
| Michelle Cotterchio           | Cancer Care Ontario; Univ of Toronto                                | The Effect of Access to an Interactive Colon Cancer Website on Subject Participation in the [OFCCR].   | C-TO-0103-01S         |
| Mazda Jenab                   | Cancer Care Ontario; Univ of Toronto                                | The association between dietary Vitamin D intake and colorectal cancer risk.   | C-TO-0703-01S         |
| Richard King                  | University of Minnesota School of Medicine                          | Proteomic and Genomic Analysis of Colorectal Cancer.   | C-LA-1202-01          |
| Lisa Madlensky                | University of California, San Diego                                 | Health Behaviors and Family History of Colorectal Cancer.  | C-EX-0803-03          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center                              | Effect Modification of Smoking by NSAIDs in Colorectal Cancer.   | C-SE-0603-01S         |
| Maren Scheuner                | Centers for Disease Control & Prevention                            | Clinical Validity Study of Colon Cancer Family History.  | C-EX-0803-02-A1       |
| Steven Thibodeau              | Mayo Clinic   | MLPA Study (Thibodeau), MLH1 methylation (Laird)   | C-CP-1103-02          |
| Cornelia Ulrich               | Huntsman Cancer Inst.   | Pharmacogenetics of 5-Fluorouracil - Pilot.  | C-SE-0803-01          |
| Cornelia Ulrich               | Huntsman Cancer Inst.   | Pharmacogenetics of Thymidylate Synthase Inhibitors.   | C-SE-0803-02          |
| <b>--2002--</b>               |   |  |                       |
| Graham Casey                  | Keck School of Medicine, USC  | Comparison of mutation detection platforms in patient samples with very high likelihood of carrying germline mutations in MLH1 or MSH2.                          | C-LA-0102-01S         |
| Michelle Cotterchio           | Cancer Care Ontario; Univ of Toronto                                | Colorectal Cancer Risk: Association with Epidemiologic Factors and Genetic Polymorphisms in Selected Enzymes That Activate Carcinogens and Metabolize Estrogens. | C-TO-1201-01          |
| Noralane Lindor               | Mayo Clinic   | Risk of Cancers in Amsterdam I Families without MSI-H tumors: Are the cancer risks the same as in families with hereditary DNA mismatch repair defects?          | C-MA-0902-01S         |
| John McLaughlin               | Prosserman Centre for Health Research                               | Estrogens and risk of colorectal cancer among women predisposed to hereditary nonpolyposis colorectal cancer (HNPCC).  | C-TO-0202-01S         |
| Robin McLeod                  | Mount Sinai Hospital; Univ of Toronto                               | Is obesity or overweight a barrier for colorectal cancer screening in average risk individuals residing in Ontario or Seattle?                                   | C-TO-1101-01S         |

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| Polly Newcomb                 | Fred Hutchinson Cancer Research Center    | JC Virus in Colorectal Cancer.   | C-SE-0802-01          |
| Boris Pasche                  | University of Alabama at Birmingham       | Polymorphisms of the TGF- $\beta$ Signaling Pathway and Colorectal Cancer Risk.  | C-EX-1202-02          |
| John Potter                   | Fred Hutchinson Cancer Research Center    | Antibody (rScFv) Arrays for Colon Cancer Screening.  | C-SE-0902-01S         |
| Mariana Stern                 | University of Southern California         | DNA repair and colorectal cancer risk within the USCC.   | C-LA-0402-01          |
| Steven Thibodeau              | Mayo Clinic                               | Analysis of MSI-H colorectal tumors with normal hMLH1, hMSH2 and hMSH6 protein expression.   | C-MA-0402-01          |
| <b>--2001--</b>               |   |  |                       |
| Dennis Ahnen                  | University of Colorado School of Medicine | Family History Characteristics in the Colon CFRs.  | C-LA-0101-01          |
| Dennis Ahnen                  | University of Colorado School of Medicine | Promoting Colon Cancer Screening Among Genetically Defined High-Risk Populations Within the Cooperative Family Registry for Colon Cancer Studies (CFRCCS). | C-LA-0401-01          |
| Lisa Boardman                 | Mayo Foundation                           | Family History of Colorectal Cancer (CRC) or Extracolonic Malignancies Among Young Onset CRC Patients.   | C-MA-0201-02          |
| Michelle Cotterchio           | Cancer Care Ontario; Univ of Toronto      | Association between Double Primary Endometrial-Colorectal Cancers and Family History of Cancer, Subject Characteristics and Underlying Molecular Features. | C-TO-1100-01          |
| Michelle Cotterchio           | Cancer Care Ontario; Univ of Toronto      | Family history of breast cancer and colorectal cancer risk in Ontario.   | C-TO-0201-01S         |
| Michelle Cotterchio           | Cancer Care Ontario; Univ of Toronto      | The efficacy of colorectal screening procedures in reducing CRC risk (incidence) among participants of a population-based case control study in Ontario.   | C-TO-0101-01          |
| Mary Jane Esplen              | Toronto General Research Institute        | The Development of an Instrument to Measure Self-Concept in HNPCC Gene Carriers.   | C-TO-0401-01          |
| Vivek Goel                    | University of Toronto                     | Screening in relatives of Ontario CRC patients.  | C-EX-0401-02-A1       |
| Noralane Lindor               | Mayo Clinic                               | Loss of expression of MLH1 as a function of aging.   | C-MA-0501-01          |
| Noralane Lindor               | Mayo Clinic                               | Microsatellite Instability Test Results: Perspectives from Patients.   | C-MA-0801-01          |
| Noralane Lindor               | Mayo Clinic                               | Microsatellite Instability Testing versus Immunohistochemistry for Phenotyping of Colorectal Tumors.   | C-MA-0201-01          |
| Noralane Lindor               | Mayo Clinic                               | Parent of Origin Effects in Colorectal Cancer Predisposition.  | C-MA-0401-02          |
| Noralane Lindor               | Mayo Clinic                               | Prevalence of the APC E1317Q variant in patients with multiple adenomatous polyps and colorectal cancer patients.  | C-MA-0401-01          |
| Sheila Murphy                 | University of Southern California         | Understanding Uncertainty: Communicating the Genetic Risk of Cancer.   | C-EX-0401-03          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center    | Genotype-phenotype correlation of IGF-1.   | C-SE-0401-01          |
| Gloria Peterson               | Mayo Clinic                               | Accuracy of family history of cancer provided by colorectal cancer patients.   | C-MA-0301-01          |



**COLON CANCER FAMILY REGISTRY APPROVED APPLICATIONS**

**As of December 1, 2021**

| <b>Principal Investigator</b> | <b>PI Institution</b>                      | <b>Application Title</b>   | <b>Application ID</b> |
|-------------------------------|--|--|-----------------------|
| Andrew Smith                  | Sunnybrook Regional Cancer Centre, Toronto | Quality improvement in lymph node assessment for colorectal cancer.  | C-TO-1201-01S         |
| Steven Thibodeau              | Mayo Clinic                                | Mechanisms of MSH6 inactivation in mismatch repair deficient tumors.   | C-MA-0401-03          |
| <b>--2000--</b>               |  |  |                       |
| Deborah Bowen                 | Fred Hutchinson Cancer Research Center     | The Needs of Families with Colorectal Cancer.  | C-SE-1200-01-A1       |
| Michelle Cotterchio           | Cancer Care Ontario; Univ of Toronto       | Agreement between proxy- and case-reported information obtained using the self-administered OFCCR epidemiologic questionnaire.                                 | C-TO-0000-01          |
| Ellen Goode                   | Mayo Clinic                                | Identification of Novel Cancer Susceptibility Loci: A Sib-Pair Study.  | C-SE-0000-01CS        |
| Robert Haile                  | University of Southern California          | A Molecular Epidemiology Study of Loss of Imprinting.  | C-LA-0800-01          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center     | Efficacy of Screening Tests to Prevent Colorectal Cancer.  | C-SE-0800-01S         |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center     | Modeling Risk for Colorectal Cancer- Projecting Individualized Probabilities.  | C-SE-0400-01S         |
| John Potter                   | Fred Hutchinson Cancer Research Center     | DNA Damage Repair.   | C-SE-0400-01          |
| Scott Ramsey                  | Fred Hutchinson Cancer Research Center     | A multifactorial economic model of risk stratification and screening for colon cancer.   | C-SE-0800-02S         |
| Helmut Zarbl                  | Fred Hutchinson Cancer Research Center     | A Pilot Study to Test the Validity of Constant Denaturing Capillary Electrophoresis (CDE) for Mutation Detection of Mismatch Repair Genes in CRC.              | C-SE-0400-02AS        |
| <b>--1999--</b>               |  |  |                       |
| Bharati Bapat                 | Mount Sinai Hospital; Univ of Toronto      | Investigation of tumor MSI status versus family history characteristics among colorectal cancer patients.  | C-MA-0499-02-E03-01   |
| Bharati Bapat                 | Mount Sinai Hospital; Univ of Toronto      | The Role of Susceptibility Genes and Environmental Risk Factors in the Etiology of Mutator versus Suppressor Pathway of Colorectal Cancer.                     | C-TO-0899-02          |
| Michelle Cotterchio           | Cancer Care Ontario; Univ of Toronto       | The Cumulative Risk of Colon and Endometrial Cancer among Hereditary Non-Polyposis Colorectal Cancer (HNPCC) Susceptibility Gene Mutation Carriers in Ontario. | C-TO-0899-03          |
| Alexandria Easson             | Princess Margaret Hospital                 | The surgical management of potentially curable colon cancer in Ontario.  | C-TO-0899-04          |
| Mary Jane Esplen              | Toronto General Research Institute         | Development of a Group Intervention for HNPCC Gene Carriers.   | C-TO-0899-01          |
| Mary Jane Esplen              | Toronto General Research Institute         | Psychosocial & Behavioral Impact of Predictive DNA Testing for Hereditary Nonpolyposis Colorectal Cancer (HNPCC).  | C-TO-1299-01          |
| Jeremy Jass                   | University of Queensland                   | Genetic Screening for HNPCC in High Risk Families.   | C-AU-0506-02          |
| Joan Levine                   | University of Southern California          | Mutagen Sensitivity in Familial Colorectal Cancer.   | C-LA-0499-01          |

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| <b>Principal Investigator</b> | <b>PI Institution</b>                  | <b>Application Title</b>  | <b>Application ID</b> |
|-------------------------------|--|---|-----------------------|
| Noralane Lindor               | Mayo Clinic                            | CFRCCS Microsatellite Instability Project (aka: The Familial Colorectal Neoplasia Collaborative Group). | C-MA-0499-02          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center | Association of Colorectal Cancer with Vitamin D Receptor Gene Polymorphism and Lifetime Sun Exposure.   | C-SE-0899-01          |
| Polly Newcomb                 | Fred Hutchinson Cancer Research Center | Hormone Replacement Therapy and Large Bowel Cancer Risk.  | C-SE-0899-02          |
| Steven Thibodeau              | Mayo Clinic                            | Analysis of MSI markers and correlation with IHC in patients with colorectal and other cancers.         | C-MA-0499-02-E03-02   |
| <b>--1998--</b>               |  |   |                       |
| Steve Gallinger               | Mount Sinai Hospital; Univ of Toronto  | Genetic Predisposition to Colorectal Cancer Caused by Weakly Penetrant APC Alleles.                     | C-TO-1298-01          |
| Karen Glanz                   | University of Hawaii at Manoa          | Influencing Early Detection and DNA Testing in Families with Colorectal Cancer.                         | C-HA-1298-01          |
| <b>--1997--</b>               |  |   |                       |
| John Potter                   | Fred Hutchinson Cancer Research Center | Creation of a Permanent Genetics Resource at the CFRCCS.  | C-SE-0097-01CS        |