

Genomics in Society Interdisciplinary Research Teams (GiSIRT)

List of Registrations

| No. | Administrative Genome Centre | Co-Lead Genome Centre | Project Leader | | Project Leader | | Lead Organization | Title of Project | Principle Sector | Keywords | |
|-----|------------------------------|---------------------------------|----------------|------------|------------------------|--------------------------|--------------------------------|--|------------------------|---|--|
| | | | Last Name | First Name | Last Name | First Name | | | | Research | Methods |
| 1 | Genome British Columbia | Ontario Genomics; Genome Quebec | Friedman | Jan | Hayeems; Laberge; Lynd | Robin; Anne-Marie; Larry | University of British Columbia | Insight-GWS: Canadian Study of the Clinical Implementation of Genome-wide Sequencing | Human Health | Health services, health economics, health policy, clinical ethics, GE3LS | Health services research, cost-effectiveness analysis, qualitative research, economic evaluation, clinical epidemiology |
| 2 | Genome British Columbia | NA | Higgs | Eric | Volpe | John | University of Victoria | GENBER: GENomics, Bio-novelty and Ecological Restoration | Environment | Restoration, Bio-Novelty, Sustainability, Policy, Nature-Culture Systems | Concept development; case studies; policy development |
| 3 | Genome British Columbia | NA | Newman | Lenore | | | University of Fraser Valley | Food 3.0: Planning for cellular agriculture in Canada's agri-food sector | Agriculture | Cellular agriculture, agricultural policy, aquaculture, meat substitutes, diffusion of innovation | Literature review, survey, interview, policy analysis, stakeholder engagement |
| 4 | Genome British Columbia | NA | Regier | Dean | Bubela | Tania | University of British Columbia | Canadian Network for Learning Healthcare Systems and Cost-effective 'Omics Innovation | Human Health | Cancer 'Omics; Learning Healthcare System; Stakeholder, Public and Patient Engagement; Patient Control of Data; Sustainable and Cost-effective Innovation | Legal and policy analysis; Cost-effectiveness Modelling; Discrete-choice experiment; Block Chain; Health Technology Assessment |
| 5 | Genome British Columbia | NA | Zerriffi | Hisham | Bull | Gary | University of British Columbia | The Impact of Genomic Technologies on Meeting Canada's Sustainable Development Goals | Environment | Sustainable development goals, climate change, land-use, resource production, public perception | Partial Equilibrium Modeling, optimization, resource modeling, surveys, focus groups |
| 6 | Genome Alberta | NA | Anders | Sven | Adamowicz | Vic | University of Alberta | Genetically Engineered Salmon: Economic, Environmental and Regulatory Challenges | Fisheries/ Aquaculture | AquAdvantage salmon, Sustainability of fisheries, Public acceptance | Revealed and Stated preference analysis, Demand analysis, Natural capital analytics for the sustainability of fisheries |
| 7 | Genome Alberta | Ontario Genomics | Goddard | Ellen | Weersink | Alfons | University of Alberta | Challenges for Agricultural Genomic Technologies | Agriculture | Agricultural genomics, food, energy and environmental impacts, optimal policy design, investment, governance, regulatory challenges | Economic analysis, sociology analysis, legal framework, cost benefit analysis, policy analysis |
| 8 | Genome Alberta | NA | Murray | Maribeth | | | University of Calgary | Understanding the Role of Genomics in Fostering and Supporting Arctic Biodiversity: Implications for Policy, Governance, Indigenous Food Security and Ecosystem-Based Co-Management of Renewable Resources | Environment | Conservation, Arctic, Policy, Knowledge Mobilization | Quantitative, Indigenous Knowledge, Interactive, Geospatial |
| 9 | Genome Alberta | Génome Québec | Ogbogu | Ubaka | Ravitsky | Vardit | University of Alberta | An Anticipatory Governance Toolbox for Responsible Delivery of Disruptive Next-Generation Genomic and Regenerative Medicine Technologies | Human Health | Anticipatory governance, democratic deliberation, responsible stewardship, disruptive health technologies | Mixed methods, policy modelling, systematic retrospective analysis, stakeholder testing and validation, informed partners testing and validation |

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| 10 | Genome Alberta | NA | Wieden | Hans-Joachim | | | University of Lethbridge | Genomics Safety and Security: Enable, Evaluate, Translate and Discover | Environment | Synthetic biology, Bioengineering, Biosafety and Biosecurity, Biological Risk, Societal impact including norms, regulations and policies | Bioinformatics, Biochemistry, Global dialog and consultation, Technology assessment, Human practices, Iterative Knowledge Translation/Transfer |
| 11 | Genome Prairie | NA | Clair | Luc | Pierce | Grant | University of Winnipeg | Economic Impact of using Nutraceuticals and Functional Foods to Treat Chronic Disease in Canada | Human Health | Chronic conditions, functional foods, nutraceuticals, health care costs, willingness-to-pay. | Randomized experiments, experimental economics, cost-effectiveness analysis, regression analysis, Markov models. |
| 12 | Genome Prairie | NA | Henry | Carol | Bourassa | Carrie | University of Saskatchewan | Participation and Adoption of Genomics research and technologies in Northern Indigenous Communities (PAGNIC): A traditional knowledge perspec | Agriculture | Indigenous perspectives on genomics, nutrition, Indigenous communities, food security | Community based research, participatory design, sharing groups, indigenous food systems |
| 13 | Genome Prairie | NA | Phillips | Peter | Smyth Castle | Stuart David | University of Saskatchewan | Digitization and Global Food Security and Sovereignty (DigitalFOOD) | Agriculture | Digital agriculture; food safety, security and sovereignty; research infrastructure, public-private partnerships | Decision tools, modelling, behavioural experimentation, surveys, institutional analysis |
| 14 | Ontario Genomics | NA | Awadalla | Philip | McLaughlin | John | Ontario Institute for Cancer Research | Developing a framework for accessible precision medicine with indigenous populations | Human Health | Health, Genomics, Indigenous Populations, Cohort Studies, Precision Medicine | Policy Evaluation, Cohort Development, Blockchain Technology, Administrative Health Linkages, Participant-centered Research |
| 15 | Ontario Genomics | NA | Bombard | Yvonne | | | University of Toronto | Optimizing the clinical adoption of cell free DNA screening for patients at risk of Hereditary Cancer Syndromes | Human Health | Cell free DNA, Hereditary Cancer syndromes, Early cancer detection, Cancer screening | Qualitative Interviews, Surveys, Randomized controlled trial, Discrete choice experiment, Cost-effectiveness analysis |
| 16 | Ontario Genomics | NA | Bombard | Yvonne | | | University of Toronto | Genomics ADVISER 2.0: Creating and evaluating a digital decision support tool on incidental genomic findings | Human Health | Genomic sequencing, Incidental Findings, Digital Decision Aid | User Centered Design, Qualitative Interviews, Randomized Controlled Trial |
| 17 | Ontario Genomics | NA | Brooks | Jennifer | | | University of Toronto | Linkage of genomic and administrative health data: Bridging the gap between research and the clinic | Human Health | Whole genome sequencing, administrative health data, autism spectrum disorders | Data linkage, identification of barriers, best practices |

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| 18 | Ontario Genomics | NA | Denburg | Avram | Ungar | Wendy | Hospital for Sick Children | Access to precision technologies for young people with cancer: From genomic innovation to health system sustainability | Human Health | Cancer genomics, precision medicine, pharmaceutical policy, health technology assessment, health system priority-setting | Policy analysis, discrete choice experiment, multi-criteria decision analysis, deliberative public engagement, qualitative methods |
| 19 | Ontario Genomics | NA | Fehlings | Darcy | | | University of Toronto | Translational Impacts of Cerebral Palsy Genomics | Human Health | Health impacts, health economics, clinical translation, knowledge translation, cerebral palsy, genomics, genetic etiology | Qualitative research, health economics, health impacts, stakeholder engagement, assessment of emotional and physical impacts |
| 20 | Ontario Genomics | NA | Hayeems | Robin | Ungar | Wendy | Hospital for Sick Children | Pathways to Implementing High-Quality Genome Diagnostics in Canada | Human Health | Genomic medicine, pediatrics, clinical utility, cost effectiveness, personal and social values, policy governance, access, implementation | Quantitative, qualitative, implementation science, discrete choice experiment, economic evaluation, comparative policy analysis |
| 21 | Ontario Genomics | NA | Van Coeverden de Groot | Peter | | | Queen's University | Towards the Integration of Inuit Traditional Ecological Knowledge and Western Science in Polar Bear Management and Monitoring: The importance of Genetics | Environment | Synthesis of knowledge systems, Polar Bear Management, Inuit Polar Bear Traditional Ecological Knowledge, Inuit Qaujimagatuqangit, non-invasive genetics | Traditional knowledge compilation through semi-directed interviews and mapping, fusion of TEK and western science knowledge into flexible inclusive management/monitoring alternatives through workshops and consensus |
| 22 | Ontario Genomics | Genome British Columbia | von Massow | Michael | Weary | Dan | | Barriers and Opportunities for Commercialization of Gene-Edited Beef and Dairy Products | Agriculture | Consumer acceptance, commercialization, gene-editing, value chain | Consumer survey, focus group, historical case study, social media analysis |
| 23 | Génome Québec | NA | Bartlett | Gillian | | | McGill University | Playing a Better Game: Increasing Public Engagement, Participation and Implementation in Genomic Innovations in Healthcare | Human Health | Genomic medicine, translation, health related quality of life, pediatrics, societal benefit | Participatory methods, engagement, implementation science, qualitative research, ethnography |
| 24 | Génome Québec | NA | Bouffard | Chantal | Lane | Julie | Université de Sherbrooke | Clinical guidelines, political recommendations and knowledge transfer tools to face the implementation challenges of Next Generation Sequencing technologies in clinical practices | Human Health | Ethical, legal and social issues in genomic medicine: Clinical guidelines and policies for genomics and personalized medicine; Health economics and genomics; Knowledge translation and collaborative research; Next Generation Sequencing (NGS). | Scoping review; Semi-structured interviews; Discrete choice experiment design; Knowledge to action approach with AGREE II: Advancing guideline development, reporting and evaluation in healthcare; Economic evaluation methods |

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| 25 | Génome Québec | NA | Dupras | Jérôme | | | Université du Québec en Outaouais | GenForUrb: Using genomics to increase the resilience of urban forests to global environmental change | Forestry | Urban forest, ecosystem services, climate change adaptation, environmental justice, political ecology | Ecosystem services modeling, Q method, semi-directed interviews, discourse analysis |
| 26 | Génome Québec | NA | Joly | Yann | | | McGill University | Using pathogen genomic data sharing as a catalyst to improve food safety and related outbreak surveillance | Agriculture | Genomic data sharing; Pathogens; Food safety: One health; Translational research | Cost-benefit analysis; comparative law; mixed-method; Qualitative research; ECOUTER method |
| 27 | Génome Québec | NA | Rouleau | Guy | Bartlett-Esquillant Baillet | Gillian Sylvain | Montreal Neurological Institute | The Neuro Open Science Initiative: measuring scientific, clinical and socio-economic impacts | Human Health | Neurodegenerative diseases; Open Science; acceleration of new treatments; economic impact | Validation and dissemination of parameters and tools to enable end-users to collect data on OS and socio-economic impact; Outcome-containing data sets that end-users will develop; Best practices and other resources |
| 28 | Génome Québec | NA | Thomassin | Paul | | | McGill University | Using Genomics to address the Risk of Climate Change and Financial Vulnerability in Agriculture | Agriculture | Climate Change, financial vulnerability, crop insurance, genome technology, genome wide association studies | Dynamic optimization, climatology, Decision Support System for Agrotechnology Transfer (DSSAT), macroeconomic models (input-output, GTAP) |
| 29 | Génome Québec | Ontario Genomics | Thomassin | Paul | Parmley | E. Jane | McGill University | Economic Assessment Human Health Care Costs of Antimicrobial Resistance | Human Health | Antimicrobial Resistance, human health, genomics | Integrated Assessment Model, Input-Output model, Computable General Equilibrium model, whole genome sequencing, metagenomics |
| 30 | Génome Québec | NA | Thomassin | Paul | Zhao | Xin | McGill University | Managing agricultural GHG emissions from Cattle: Contributions to Canada's Paris Accord Commitment | Agriculture | Beef Cattle, Dairy Cattle, GHG emissions, genomics, carbon offset markets | Benefit-Cost Analysis, consequential life cycle analysis, GTAP |
| 31 | Genome Atlantic | NA | Wilson | Brenda | Nguyen | Hai Van | Memorial University of Newfoundland | Knowledge co-creation to accelerate evidence and implementation of genome technologies in the Canadian health system | Human Health | Clinical utility; implementation science; knowledge co-creation; end-user engagement; complex adaptive systems | Randomized controlled trials; economic evaluation; mixed methods; knowledge synthesis |