

SIP5- Statements of Interest

Project Leader	Project co-leader (if applicable)	Affiliation	Title	Lay Title	Keywords Research	Keywords Methods
Cara Haney	Siyun Wang	University of British Columbia	Developing microbe- and phage-based technologies to protect sprouts from Salmonella	Eliminating Salmonella from sprouts	Plant microbiome, Salmonella spp., Salmonella enteritidis, sprouts, competitive exclusion, phage	Genomics, metabolomics, high-throughput screening, microbiome engineering
Xiaonan Lu	William Hsiao	University of British Columbia	"One Health" Syst-Omics approach to reduce Campylobacter in agri-food chain	Reduce Campylobacter-associated food contamination	Whole genome sequencing, isothermal amplification detection, bacteriophage, antimicrobial packaging, virulence	
Timothy Green		Vancouver Island University	New Tools to forecast and prevent norovirus contamination of farmed oysters	Stopping norovirus contamination of oysters	Norovirus, genotyping, epidemiology, oceanography, fisheries and aquaculture.	Illumina MiSeq, digital PCR, field sampling, laboratory experiments
Christoph Borchers		University of Victoria	Development of proteomics-based screening assays for 8 bacteria that cause food-borne illness.	Screening assays for 8 pathogens that cause food-borne illness	Pathogen detection, mass spectrometry, automation, iMALDI, proteomics	Mass spectrometry, automation, proteins, iMALDI, quantitation
Siyun Wang	Pascal Delaquis	University of British Columbia	Risk profiling of stress-tolerant Salmonella, Shiga toxin, producing E. Coli and Listeria monocytogenes strains isolated from food supply systems in British Columbia	Foodborne pathogen risk profiling	Salmonella, Shiga toxin producing E. Coli (STEC), Listeria monocytogenes, stress response, virulence	Whole genome sequencing, quantitative digital droplet PCR (ddPCR)
Natalie Prystajecy	Paul Levett	University of British Columbia	Unified Pathogen Control OneHealth Approach Specifically Targeting Norovirus (UPCOAST-N)		Norovirus, shellfish, gastroenteritis, foodborne disease	RNA enrichment, PCR, next-generation sequencing, metagenomics, targeted resequencing
Dr. Robert (Bob) Hancock		University of British Columbia	Biofilm development and treatment of bacterial agrifood pathogens that impact on healthcare	Control of Biofilms Impacting Food Safety (C-BIFS)	Transcriptomics, Bioinformatics, Biofilms, Agrifoods, Bacteria	RNA-Seq, confocal microscopy, anti-biofilm assays, synergy assays
Mel Krajden	Erin Zabeck	University of British Columbia	Poultry Linked Understanding of Salmonella (PLUS)	Salmonella – the chicken, not the egg	Salmonella, antimicrobial resistance, virulence factors, transmission dynamics, outbreaks	Next-generation sequencing, sampling, meta-data linkage and analysis
Linda Hoang	Katie Eloranta	University of British Columbia	Unified Pathogen Control Onehealth Approach Specifically Targeting Vibrio (UPCOAST-V)		Vibrio virus, shellfish, gastroenteritis, foodborne disease	Whole Genome Sequencing, Analysis of genomic data,