

Posters presented at CRAFT Research Symposium 2024

Poster #	Name	Email	Affiliation	Title
1	Shapour Jafargholinejad	s.jafargholinejad@gmail.com	York University	Improving the limit of detection and sensitivity of a microfluidic electrochemical sensor in metal ion detection through secondary Dean flow
2	Gahyeon Kim	gahyeon.kim@mail.utoronto.ca	University of Toronto	Microfluidic Preparation of Ultrathin, Mineralized Collagen Sheets
3 CRAFT	Keith Morton	keith.morton@cnrc-nrc.gc.ca	National Research Council	INTEGRATING VIVID COLOUR, LINE ART HOLOGRAMS INTO INJECTION MOLDED MICROFLUIDIC DEVICES AS ANTI-COUNTERFEITING SECURITY FEATRES
4	Lubna Najm	najml1@mcmaster.ca	Mcmaster University	THREE-DIMENSIONAL MICROARRAY FABRICATION USING NONCONTACT BIOPRINTING OF PURE PROTEIN HYDROGELS FOR ULTRASENSITIVITY
5	Rahimeh Rasouli	rahimeh.rasouli@dal.ca	Dalhousie University	Incorporation of Collagen Short Fibers into Hydrogels Improves their Mechanical Properties and Enhances their Interactions with Cells
6	Said Abdellatif	said.abdellatif@torontomu.ca	Toronto Metropolitan University	FABRICATION AND INTEGRATION OF 3D ELECTRODES FOR MICROFLUIDICS
7 CRAFT	Sushant Singh	sushant.singh@mail.utoronto.ca	University of Toronto	BIOPRINTING BIPHASIC JAMMED BIOINKS USING MULTI-NOZZLE PRINTHEADS ON PHYSIOLOGICAL SURFACES AND IN REDUCED GRAVITY
8	Ali Salari	ali.salari@utoronto.ca	University of Toronto	TOWARDS PROCESS INTEGRATION OF DIGITAL MICROFLUIDICS (DMF) WITH SINGLE MOLECULE ARRAYS (SIMOA) FOR ENHANCED ASSAY CAPABILITIES
9	Bryan Daniel Herrera Lozada	bryan.herreralozada@mail.mcgill.ca	McGill University	Bubble-based acoustofluidic system for cell spheroid formation in viscoelastic fluids: an investigation of the design parameters.
10	Sathishkumar Narayanaswamy	sathish.narayanaswamy@mail.utoronto.ca	University of Toronto	All-in-one digital microfluidics-based surveillance tool for autonomous multiplexed portable detection of viral infection and immunity
11	Dmitry Tomsa	tomsad@myumanitoba.ca	University of Manitoba	Design and Application of a Passive Flow Microreactor for Urine Creatinine Tests
12	Savina R. Cammalleri	savina.cammalleri@mail.utoronto.ca	University of Toronto	Extending the Utility of a Digital Microfluidic-based single-cell -omics tool (tDISCO) to Targeted Spatial Assays for Glial Cells
13 CRAFT	Tarang Khare	tarang.khare@unityhealth.to	Unity Health Toronto	Development of a Point-of-Care Prognostic Test Kit for Sepsis Detection
14	John Nguyen	john.nguyen2@mail.mcgill.ca	McGill University	Characterization of combinatorial oligonucleotide libraries produced by split-and-pool synthesis
15 CRAFT	Yufeng Zhao	yfeng.zhao@utoronto.ca	National Research Council	A digital droplet Cas12a assay for sensitive amplification-free RNA detection

16	Jose Gilberto Camacho Valenzuela	gilberto.camacho@mail.utoronto.ca	University of Toronto	MINI-MAGBEAD: A SMALL AUTOMATED MAGNETIC BEAD CONCENTRATION PLATFORM BASED ON DIGITAL MICROFLUIDICS FOR IMMUNOASSAYS
17 CRAFT	Jurgen Frasheri	jurgen.frasheri@gmail.com	University of Toronto	A bacterial endotoxin test on a novel self-contained digital microfluidics platform
18 CRAFT	Liviu Clime	liviu.clime@gmail.com	National Research Council	QUANTIFICATION OF PROTEINS IN BIOLOGICAL SAMPLES WITH MAGNETICALLY FUNCTIONALIZED SOFT MAGNETIC MICROWIRES AND FLOW CYTOMETRY MEASUREMENTS
19 CRAFT	Matthias Geissler	matthias.geissler@cnrc-nrc.gc.ca	National Research Council	Centrifugal microfluidic system for colorimetric sample-to-answer detection of foodborne viral pathogens
20 CRAFT	Michael Dryden	Michael.Dryden@nrc-cnrc.gc.ca	National Research Council	Automated digital microfluidic phage susceptibility testing
21	Nicholas Palmerley	palmerln@myumanitoba.ca	University of Manitoba	WIRELESS DIRECT CURRENT ELECTRIC FIELD INDUCED DIFFERENTIAL MIGRATORY RESPONSES OF IMMUNE AND CANCER CELLS
22	Ali Mousavi	seyed.ali.mousavi@umontreal.ca	University of Montreal	Heart-On-a-Chip with Integrated Ultrasoft Mechanosensors for Continuous Measurement of Cell- and Tissue-scale Contractile Forces
23 CRAFT	Jacqueline Pavelick	jacqueline.pavelick@mail.utoronto.ca	Unity Health Toronto	Organ-on-a-chip platform to assay miRNA delivery systems
24 CRAFT	Kevin Perera	kevin.perera@mail.utoronto.ca	University of Toronto	A hybrid cartilage and synovium joint-on-a-chip platform for pre-clinical disease modelling of osteoarthritis
25	Kimia Asadi Jozani	asadijok@mcmaster.ca	Mcmaster University	High-Throughput Microphysiological Model of Healthy and Asthmatic Airways for Viral Exposure and Drug Screening
26	Richard Jiang	richardjiang.jiang@mail.utoronto.ca	University of Toronto	FABRICATION OF ELECTROCONDUCTIVE AND POROUS SCAFFOLDS FOR CARDIAC TISSUE ENGINEERING
27	Mahmoud Sakr	m.sakr@utoronto.ca	University of Toronto	CONSTRUCTING AN EX-VIVO HUMAN OLFACTORY SYSTEM ON A CHIP
28	Shiyuan Bian	shiyuan.bian@mail.utoronto.ca	University of Toronto	Physiological Stretch in a Biomimetic Alveoli-on-a-chip System Enhanced Alveolar Epithelial Cell Survival and YAP-F-actin Pathway Activation
29 CRAFT	Sargol Okhovatian	sargol.okhovatian@mail.utoronto.ca	University of Toronto	High Fidelity Cardiac Ventricle fabricated from Porous Elastomer promotes Vasculogenesis
30	Shravanthi Rajasekar	rajass1@mcmaster.ca	Mcmaster University	High-Throughput Platform for Modelling Tubular Injuries in Kidney
31 CRAFT	Amid Shakeri	amid.shakeri@utoronto.ca	University of Toronto	PermeoTubes: A Novel Porous Tube Device for Studying Cancer Cell Migration in Cardiac Tissues
32 CRAFT	Dan Popescu	dan.popescu@nrc-cnrc.gc.ca	National Research Council	Real-time ex-vivo optical coherence tomography imaging of blood-saline mixtures flow through micro-channels

33 CRAFT	Ben Moon	ben.moon@nrc-cnrc.gc.ca	National Research Council	
34 CRAFT	Dhana Abdo	dhana.abdo@mail.utoronto.ca	University of Toronto	DERMIS-ON-A-CHIP MODEL OF ANTI-FIBROTIC COMPOUND SCREENING
35	Elsa Tanré	elsa.tanre@mail.mcgill.ca	McGill University	Design of a microphysiological platform to assess pancreatic islets revascularization after transplantation
36 CRAFT	Chuan Liu	marycl.liu@mail.utoronto.ca	University of Toronto	Biomimetic fractal topography enhances kidney podocyte maturation in vitro
37	Karim Saade	karim.saade@mail.mcgill.ca	McGill University	INVESTIGATION OF GLYCOCALYX DYNAMICS IN CIRCULAR CHANNELS UNDER VARYING SHEAR STRESSES
38 CRAFT	Kebin Li	Kebin.li@nrc.gc.ca	National Research Council	HARNESSING MICROFLUIDIC CONCENTRATION GRADIENT GENERATORS FOR CELLULAR MICROENVIRONMENT CONTROL
39	Noura Ezzo	nezzo@uwaterloo.ca	University of Waterloo	A Droplet Microfluidic Platform Used to Encapsulate Pre-formed Cancer Spheroids in Hydrogel Systems for Controlled Growth and Analysis