

University of Colorado Diagnostics Pipeline

Available Technologies

Diagnostic Marker	Disease	Application	IP Type	Analytical Platform	Inventor	Case #	Marker Identification	Assay Formatting	Analytical Validation	Clinical Validation	Clinical Trials
Colate Shunt	Degrees of liver failure	Point-of-care diagnosis	Analytics, biomarker	Detection of traceable agents	Gregory Everson	CU1361H					
IGRP autoantibodies	Type-I diabetes	Early detection/diagnosis	Analytics, biomarker	Immunoassay	John Hutton	CU1109H					
Fibrinolysis-thrombosis	Hemostatic disorders	Hemodynamic monitoring	Methods	Clinical chemistry	Neil Goldenberg	CU1256H					
Diagnostic DNA microarray - FluChip	Influenza A	Virus typing and subtyping	Microarray sequences	Microarray	Kathy Rowlen	CU1512B					
Diagnostic DNA microarray - Mchip	Influenza A	Virus typing and subtyping	Microarray sequences	Microarray	Kathy Rowlen	CU1550B					
Diagnostic DNA microarray - FluChip-B	Influenza B	Virus typing	Microarray sequences	Microarray	Kathy Rowlen	CU1664B					
DNA	Cardiomyopathies	Diagnosis	Genechip	PCR	Luisa Mestroni	CU1680H					
MicroRNA assay	Pulmonary arterial disease (PAD)	Transplant justification, disease subtyping	Biomarkers, methods	Multiplex expression profiling- gene chip, PCR	Norbert Voelkel	CU1064H					
Biomarkers for babesia	Babesiosis (Babesia)	Diagnose, determine course, monitor treatment	Biomarkers, methods	Mass spectroscopy	Mark Duncan	CU1629H					
Molecular probes	Acute myeloid leukemia (AML)	Detection	Reagent	Assay	Harry Drabkin	FD163H					
VZV detection	Shingles, chicken pox	Diagnosis	Diagnostic kit	Immunohistochemistry	Randy Cohrs	CU1793H					
Protein	Thyroid tumors	Drive decision for thyroidectomy	Analytic platform	Immunoassay	S. Hunsucker	CU1713H					
MicroRNA assay	Non-small cell lung cancer (NSCLC)	Prediction of survival and response to therapy	Biomarkers, methods	miRNA assay	Glen Weiss	CU1843H					
Diagnostic DNA microarray - AVR Chip	Influenza A - drug resistance	Identification of influenza strains sensitive to amantadine inhibitors	Microarray sequences	Microarray	Rowlen-Kuchta	CU1663B					
Protein	Metastatic melanoma	Detection, cancer stage determination	Biomarker, methods	Immunohistochemistry	Natalie Ahn	CU1407B					
Gene and pathway	Autoimmune disease	Early detection/diagnosis	Biomarker, methods	Gene chip probe array	Richard Spritz	CU1396H					
MicroRNA assay	Cancer, diabetes, brain disease	Diagnosis	Research platform	RNA chemical assay	Linda van Dyk	CU1658H					
Antibody tethering technology	Various	Point-of-care and field immunoassay	Analytic platform	Immunoassay	Kristi Anseth	CU1295B	n/a				
ELISpot analysis	Chronic beryllium disease (CBD)	Diagnostic evaluation of beryllium hypersensitivity	Analytic platform	ELISpot analysis	Andrew Fontenot	CU1236H					
Antibody tethering technology	Prostate cancer	Diagnosis and monitoring	Methods	Immunoassay	Michael Glode	2001.058H					
Biomarkers for type I diabetes	Type-I diabetes	Diagnosis	Biomarkers, vaccine	ELISA	Katie Haskins	CU2287H					
Cancer cell surface markers	Cancer	Diagnosis	Biomarker, methods	Gene chip probe array	Daniel Chan	CU1996H					
On-chip signal amplification	Cancer, STDs, blood-borne pathogens	Diagnosis	Analytic platform	Microarray	C. Bowman	CU1137B/1384B	n/a				
Probe for misfolded/aggregated proteins	Neurodegenerative diseases	Early detection/diagnosis	Analytic platform	Gene chip probe array	Chris Link	CU1521B					
CBS gene mutations	Hyperhomocystinuria	Diagnosis	Analytic compositions	Gene chip probe array	Jan Kraus	2002.110H					

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University of Colorado Technology Transfer Office

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To learn more about the technologies listed here, contact:

Lindsay Polak

303.735.5518, lindsay.polak@cu.edu

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Licensed Technologies

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EGFR biomarkers	Non-small cell lung cancer (NSCLC)	Prediction of response to Gefitinib	Biomarker	Multiplex expression profiling- gene chip, PCR	Fred Hirsch	CU1254H					
Cytokine	Acute renal failure (ARF)	Diagnostic: ICU, point-of-care	Analytics, biomarker	Immunoassay	Charles Edelstein	CU1287H					
Sensitive IDDM radioassay	Diabetes	Radiation assay for IDDM	Analytics	Radioassay	George Eisenbarth	IR430H					
ACE genetic variant screen	Cardiovascular disease	Determine risk of developing cardiovascular disease	Biomarker	Genetic screen	Benjamin Perryman	IR360H					
Protein biomarkers	Cancer	TRAIL therapy modulation	Biomarker, methods	Multiplex expression profiling- gene chip, PCR	Heide Ford	CU1674H					
Expression profiling	Cardiovascular disease	Diagnosis	Analytics	Assay	Michael Bristow	2002.026H					
Antibody	Breast cancer	Test responsivity to PARP inhibitors	Biomarkers, methods	Antibody	Jeffrey Holt	CU1566H					
Diabetes autoantigen	Type-I diabetes	Diagnosis	Biomarkers, methods	Immunoassay	Hutton-Eisenbarth	CU1673H					
MicroRNA assay	Lung cancer	Predict Gefitinib sensitivity/resistance	Biomarkers, methods	Multiplex expression profiling- gene chip, PCR	Geraci-Hirsch-Witta	CU1211H					
MicroRNA assay	Heart disease, heart failure	Differentiate forms of heart failure	Biomarkers, methods	Multiplex expression profiling- gene chip, PCR	J. David Port	CU1772H*					
On-chip signal amplification	Respiratory, environmental pathogens	Detection and diagnosis	Analytic platform	Microarray	Christopher Bowman	CU1137B/1384B					

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