

KATHY A MANGOLD

<https://orcid.org/0000-0001-9696-555X>

Other IDs

Scopus Author ID: 7004889990 (<http://www.scopus.com/inward/authorDetails.url?authorID=7004889990&partnerID=MN8TOARS>)

Biography

My research focuses on the translation of basic science into diagnostics for multiple areas of pathology. Initially, my research focused on the molecular changes that occur in the development and progression of solid tumors. I utilized several animal models: 1) an aquatic model of liver carcinogenesis where I identified the trout equivalent of the K-ras gene, and 2) a Golden Syrian Hamster model of pancreatic ductal adenocarcinoma, with later analysis of human specimens to identify early biomarkers of this devastating disease. I also studied prostate cancer, focusing less on early detection and more on the markers of metastatic progression of the disease. More recently, in response to the critical needs of our molecular diagnostics laboratory, I have developed and validated many assays. Many are designed to detect and identify pathogenic microbes, viruses and antimicrobial resistance, but diagnostic assays for cancer susceptibility and diagnostics have also been developed and validated. These validated, laboratory developed procedures are routinely used for clinical testing of primary samples as well as for screening patients as part of my role as Director of Genotyping in the Molecular Diagnostics laboratory at NorthShore. Finally, in my role as the Director of the NorthShore Biospecimen Repository, we receive and store biospecimens in a standardized manner to maximize the potential use for current and potential research studies, as well as the acquisition and database storage of essential pathologic and clinical information needed for conducting translational research

Employment (5)

NorthShore University HealthSystem: Evanston, IL, US

2020-10-01 to present | Pathologist, PhD (Pathology & Laboratory Medicine)
Employment

Source:KATHY A MANGOLD

NorthShore University HealthSystem: Evanston, IL, US

2009 to 2020-09-30 | Research Scientist II (Pathology and Laboratory Medicine)
Employment

Source:KATHY A MANGOLD

Evanston Hospital: Evanston, Illinois, US

2000 to 2009 | Research Scientist (Pathology and Laboratory Medicine)
Employment

Source:KATHY A MANGOLD

Georgia Regents University Medical College of Georgia: Augusta, GA, US

1995 to 1999 | Postdoctoral Fellow (Pathology)
Employment

Source:KATHY A MANGOLD

Northwestern University Feinberg School of Medicine: Chicago, IL, US

1990 to 1994 | Postdoctoral Fellow (Pathology)
Employment

Source:KATHY A MANGOLD

Education and qualifications (3)

Oregon State University: Corvallis, OR, US

1984 to 1990 | PhD (Toxicology)

Education

Source:KATHY A MANGOLD

Washington State University: Pullman, WA, US

1982 to 1984 | M.S. (Genetics and Cell Biology)

Education

Source:KATHY A MANGOLD

Washington State University: Pullman, WA, US

1978 to 1982 | B.S. cum laude (Biology)

Education

Source:KATHY A MANGOLD

Works (48 of 48)

The Prevalence of SARS-CoV-2 in Autopsies Surrounding the Time of Pandemic Onset: A Retrospective Review of Cases

Archives of Pathology & Laboratory Medicine

2023-04-12 | journal-article

DOI: 10.5858/arpa.2022-0547-sa

Part of ISSN: 1543-2165

Part of ISSN: 0003-9985

Source:KATHY A MANGOLD

Cell-free Nucleic Acids in Cancer: Current Approaches, Challenges, and Future Directions

Clinics in Laboratory Medicine

2022 | journal-article

DOI: 10.1016/j.cll.2022.09.017

EID: 2-s2.0-85141499606

Part of ISSN: 15579832 02722712

Source:KATHY A MANGOLDviaScopus - Elsevier

Germline mutations in high penetrance genes are associated with worse clinical outcomes in patients with non–small cell lung cancer

JTCVS Open

2022 | journal-article

DOI: 10.1016/j.xjon.2022.09.001

EID: 2-s2.0-85140983567

Part of ISSN: 26662736

Source:KATHY A MANGOLDviaScopus - Elsevier

Umbilical cord miRNAs to predict neonatal early onset sepsis

PLOS ONE

2021-05-07 | journal-article

DOI: 10.1371/journal.pone.0249548

Source:Crossref

Performance and Utilization of a Laboratory-Developed Nucleic Acid Amplification Test (NAAT) for the Diagnosis of Pulmonary and Extrapulmonary Tuberculosis in a Low-Prevalence Area

American Journal of Clinical Pathology

2020-06-08 | journal-article

DOI: 10.1093/ajcp/aqaa031

Source:Crossref

LyP-1-Modified Oncolytic Adenoviruses Targeting Transforming Growth Factor β Inhibit Tumor Growth and Metastases and Augment Immune Checkpoint Inhibitor Therapy in Breast Cancer Mouse Models

Human Gene Therapy

2020 | journal-article

DOI: 10.1089/hum.2020.078

EID: 2-s2.0-85090079115

Part of ISSN: 15577422 10430342

Source:KATHY A MANGOLDviaScopus - Elsevier

An oncolytic adenovirus targeting TGF β inhibits pro-tumorigenic signals and produces immune activation: A novel approach to enhance anti-PD-1 and anti-CTLA-4 therapy

Human Gene Therapy

2019-05-24 | journal-article

DOI: 10.1089/hum.2019.059

Part of ISSN: 1043-0342

Part of ISSN: 1557-7422

Source:KATHY A MANGOLD

Integrated molecular subtyping defines a curable oligometastatic state in colorectal liver metastasis

Nature Communications

2018-05-04 | journal-article

DOI: 10.1038/s41467-018-04278-6

EID: 2-s2.0-85046632548

Part of ISSN: 20411723

Source:KATHY A MANGOLD

Erratum to: Integrated molecular subtyping defines a curable oligometastatic state in colorectal liver metastasis (Nature Communications, (2018), 9, 1, (1793), 10.1038/s41467-018-04278-6)

Nature Communications

2018 | journal-article

DOI: 10.1038/s41467-018-07303-w

EID: 2-s2.0-85056486380

Part of ISSN: 20411723

Source:KATHY A MANGOLDviaScopus - Elsevier

Molecular detection of Staphylococcus aureus colonization and infection

Molecular Microbiology: Diagnostic Principles and Practice

2016 | book-chapter

Part of DOI: 10.1128/9781555819071.ch15

EID: 2-s2.0-84992419006

Source:KATHY A MANGOLDviaScopus - Elsevier

Performance of 3 real-time PCR assays for direct detection of *Staphylococcus aureus* and MRSA from clinical samples

Diagnostic Microbiology and Infectious Disease

2015 | journal-article

DOI: 10.1016/j.diagmicrobio.2014.06.005

EID: 2-s2.0-84943583234

Source:KATHY A MANGOLDviaScopus - Elsevier

Comparison of tumor markers for predicting outcomes after resection of nonfunctioning pancreatic neuroendocrine tumors

Surgery (United States)

2014 | journal-article

DOI: 10.1016/j.surg.2014.08.043

EID: 2-s2.0-84922424369

Source:KATHY A MANGOLDviaScopus - Elsevier

Integrity and amplification of nucleic acids from snap-frozen prostate tissues from robotic-assisted laparoscopic and open prostatectomies

Archives of Pathology and Laboratory Medicine

2013 | journal-article

DOI: 10.5858/arpa.2011-0550-OA

EID: 2-s2.0-84876587278

Source:KATHY A MANGOLDviaScopus - Elsevier

Multiple broad-spectrum beta-lactamase targets for comprehensive surveillance

Journal of Clinical Microbiology

2013 | journal-article

DOI: 10.1128/JCM.01488-13

EID: 2-s2.0-84884734300

Source:KATHY A MANGOLDviaScopus - Elsevier

PCR detection of clarithromycin-susceptible and -resistant *Helicobacter pylori* from formalin-fixed, paraffin-embedded gastric biopsies

Modern Pathology

2013 | journal-article

DOI: 10.1038/modpathol.2013.48

EID: 2-s2.0-84883875082

Source:KATHY A MANGOLDviaScopus - Elsevier

Trends in thyroid surgery in Illinois

Surgery (United States)

2013 | journal-article

DOI: 10.1016/j.surg.2013.04.055

EID: 2-s2.0-84886090698

Source:KATHY A MANGOLDviaScopus - Elsevier

Rectal screening for *Klebsiella pneumoniae* carbapenemases: Comparison of real-time PCR and culture using two selective screening agar plates

Journal of Clinical Microbiology

2012 | journal-article

DOI: 10.1128/JCM.00654-12

EID: 2-s2.0-84864416294

Source:KATHY A MANGOLDviaScopus - Elsevier

Real-time detection of bla _{KPC} in clinical samples and surveillance specimens

Journal of Clinical Microbiology

2011 | journal-article

DOI: 10.1128/JCM.00268-11

EID: 2-s2.0-80052203446

Source:KATHY A MANGOLDviaScopus - Elsevier

Analytical performance determination and clinical validation of the novel Roche realtime ready influenza A/H1N1 detection set

Journal of Clinical Microbiology

2010 | journal-article

DOI: 10.1128/JCM.00785-10

EID: 2-s2.0-77956796312

Source:KATHY A MANGOLDviaScopus - Elsevier

Detection of BRCA1 and BRCA2 Ashkenazi Jewish founder mutations in formalin-fixed paraffin-embedded tissues using conventional PCR and heteroduplex/amplicon size differences

Journal of Molecular Diagnostics

2010 | journal-article

DOI: 10.2353/jmoldx.2010.090023

EID: 2-s2.0-77349106950

Source:KATHY A MANGOLDviaScopus - Elsevier

Influenza A subtyping: Seasonal H1N1, H3N2, and the appearance of novel H1N1

Journal of Molecular Diagnostics

2010 | journal-article

DOI: 10.2353/jmoldx.2010.090225

EID: 2-s2.0-77956868216

Source:KATHY A MANGOLDviaScopus - Elsevier

Unique finding of a 2009 H1N1 influenza virus-positive clinical sample suggests matrix gene sequence variation

Journal of Clinical Microbiology

2010 | journal-article

DOI: 10.1128/JCM.02318-09

EID: 2-s2.0-75649140600

Source:KATHY A MANGOLDviaScopus - Elsevier

Editorial Comment

Journal of Urology

2009 | journal-article

DOI: 10.1016/j.juro.2008.11.168

EID: 2-s2.0-62049084238

Source:KATHY A MANGOLDviaScopus - Elsevier

Authors' reply [4]

Journal of Clinical Microbiology

2007 | journal-article

DOI: 10.1128/JCM.01008-07

EID: 2-s2.0-36349035239

Source:KATHY A MANGOLDviaScopus - Elsevier

Erratum: Neisseria species identification assay for the confirmation of Neisseria gonorrhoeae-positive results of the COBAS amplicor PCR (Journal of Clinical Microbiology (2007) 45, 5, (1403-1409))

Journal of Clinical Microbiology

2007 | journal-article

DOI: 10.1128/JCM.00988-07

EID: 2-s2.0-34547647601

Source:KATHY A MANGOLDviaScopus - Elsevier

Lack of an association between Chlamydia psittaci and ocular adnexal lymphoma

Leukemia and Lymphoma

2007 | journal-article

DOI: 10.1080/10428190601132105

EID: 2-s2.0-33947624266

Source:KATHY A MANGOLDviaScopus - Elsevier

Neisseria species identification assay for the confirmation of Neisseria gonorrhoeae-positive results of the COBAS amplicor PCR

Journal of Clinical Microbiology

2007 | journal-article

DOI: 10.1128/JCM.00834-06

EID: 2-s2.0-34248545075

Source:KATHY A MANGOLDviaScopus - Elsevier

Prostate cancer cells regulate growth and differentiation of bone marrow endothelial cells through TGF β and its receptor, TGF β RII

Prostate

2006 | journal-article

DOI: 10.1002/pros.20370

EID: 2-s2.0-33645897313

Source:KATHY A MANGOLDviaScopus - Elsevier

Bi-directional interactions of prostate cancer cells and bone marrow endothelial cells in three-dimensional culture

Prostate

2005 | journal-article

DOI: 10.1002/pros.20206

EID: 2-s2.0-19544361854

Source:KATHY A MANGOLDviaScopus - Elsevier

Real-time PCR for detection and identification of Plasmodium spp.

Journal of Clinical Microbiology

2005 | journal-article

DOI: 10.1128/JCM.43.5.2435-2440.2005

EID: 2-s2.0-18544370097

Source:KATHY A MANGOLDviaScopus - Elsevier

Species-level identification of staphylococcal isolates by real-time PCR and melt curve analysis

Journal of Clinical Microbiology

2005 | journal-article

DOI: 10.1128/JCM.43.6.2876-2880.2005

EID: 2-s2.0-20444472365

Source:KATHY A MANGOLDviaScopus - Elsevier

Alternative to histologic grading of cancer [1] (multiple letters)

Human Pathology

2001 | journal-article

EID: 2-s2.0-0035190481

Source:KATHY A MANGOLDviaScopus - Elsevier

Interobserver reproducibility of Gleason grading of prostatic carcinoma: General pathologists

Human Pathology

2001 | journal-article

DOI: 10.1053/hupa.2001.21135

EID: 2-s2.0-0035122453

Source:KATHY A MANGOLDviaScopus - Elsevier

Interobserver reproducibility of Gleason grading of prostatic carcinoma: Urologic pathologists

Human Pathology

2001 | journal-article

DOI: 10.1053/hupa.2001.21134

EID: 2-s2.0-0035126050

Source:KATHY A MANGOLDviaScopus - Elsevier

Alterations of Adenomatous Polyposis Coli (APC) gene in oral squamous cell carcinoma

International Journal of Oral and Maxillofacial Surgery

2000 | journal-article

EID: 2-s2.0-0034204233

Source:KATHY A MANGOLDviaScopus - Elsevier

Needle biopsies of the prostate: What constitutes adequate histologic sampling?

Archives of Pathology and Laboratory Medicine

1998 | journal-article

EID: 2-s2.0-0344653619

Source:KATHY A MANGOLDviaScopus - Elsevier

p16 (CDKN2/MTS1) gene deletions are rare in prostatic carcinomas in the United States and Japan

Journal of Urology

1997 | journal-article

DOI: 10.1016/S0022-5347(01)65152-8

EID: 2-s2.0-0031031325

Source:KATHY A MANGOLDviaScopus - Elsevier

Extensive extramedullary disease in myeloma: An uncommon variant with features of poor prognosis and dedifferentiation

Cancer

1996 | journal-article

DOI: 10.1002/(SICI)1097-0142(19960401)77:7<1298::AID-CNCR11>3.0.CO;2-X

EID: 2-s2.0-0029916321

Source:KATHY A MANGOLDviaScopus - Elsevier

Multiple Genetic Alterations in Hamster Pancreatic Ductal Adenocarcinomas

Cancer Research

1995 | journal-article

EID: 2-s2.0-0029041373

Source:KATHY A MANGOLDviaScopus - Elsevier

Cellular and molecular alterations during in vitro carcinogenesis of hamster pancreatic duct cells

International Journal of Pancreatology

1994 | journal-article

EID: 2-s2.0-0027944006

Source:KATHY A MANGOLDviaScopus - Elsevier

Genomic p53 Mutation in a Chemically Induced Hamster Pancreatic Ductal Adenocarcinoma

Cancer Research

1994 | journal-article

EID: 2-s2.0-0028092806

Source:KATHY A MANGOLDviaScopus - Elsevier

In vitro carcinogenesis of hamster pancreatic duct cells: Cellular and molecular alterations

Carcinogenesis

1994 | journal-article

DOI: 10.1093/carcin/15.9.1979

EID: 2-s2.0-0027978836

Source:KATHY A MANGOLDviaScopus - Elsevier

Summary of a meeting: Workshop on cell and molecular biology of pancreatic cancer

International Journal of Pancreatology

1993 | journal-article

EID: 2-s2.0-0027297076

Source:KATHY A MANGOLDviaScopus - Elsevier

Gene alterations in rodent and human tumors of the exocrine and endocrine pancreas.

Progress in clinical and biological research

1992 | journal-article

EID: 2-s2.0-0026450478

Source:KATHY A MANGOLDviaScopus - Elsevier

**K-ras Mutation is an Early Event in Pancreatic Duct
Carcinogenesis in the Syrian Golden Hamster**

Cancer Research

1992 | journal-article

EID: 2-s2.0-0026808451

Source:KATHY A MANGOLDviaScopus - Elsevier

**Analysis of ras gene mutations in rainbow trout liver
tumors initiated by aflatoxin B1**

Molecular Carcinogenesis

1991 | journal-article

DOI: 10.1002/mc.2940040206

EID: 2-s2.0-0025758335

Source:KATHY A MANGOLDviaScopus - Elsevier

Expression of ras genes in rainbow trout liver

Molecular Carcinogenesis

1991 | journal-article

DOI: 10.1002/mc.2940040204

EID: 2-s2.0-0025983957

Source:KATHY A MANGOLDviaScopus - Elsevier

**Activation of k-ras in transplantable pancreatic ductal
adenocarcinomas of syrian golden hamsters**

Carcinogenesis

1990 | journal-article

DOI: 10.1093/carcin/11.11.2075

EID: 2-s2.0-0025048016

Source:KATHY A MANGOLDviaScopus - Elsevier

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