



WCP MOLECULAR DIAGNOSTICS TESTING

FLOW CYTOMETRY—For leukemias, lymphomas and multiple myelomas.

BREAST CANCER PROFILE—Includes imaged prognostic report with ER, PR, Ki-67, Her-2/neu IHC and Her-2 SISH; DNA ploidy analysis and p53 are also available.

- √ Specialized color photomicrograph reporting system.
- √ Most advanced histology and cytology processing technology available.
- √ Immunofluorescence available on site.
- √ Widest range of immunohistochemical stains available in the Midwest. We offer over **200 IHC** stains including **dual** and **triple** stains.

Immunohistochemistry Staining (IHC) Imaging is available on breast, prostate, and sentinel nodes.

In-situ Hybridization Staining (ISH) Imaging available on all cases.

Silver In-situ Hybridization Staining (SISH) Imaging is available on breast cases.

Immunofluorescence (IF)

√ All IHC/ISH/IF Automated Staining is done at WCP Laboratories using the latest technology in the market, to ensure consistency and accuracy on every sample.

IHC Staining Used for:

Diagnosing cancerous and precancerous lesions, tumors, both benign and malignant, from tissue or any other body fluids including lymphomas and leukemias.

IHC Staining is also used for:

Diagnosing the presence of viruses:

Human Herpesvirus type 8 (HHV 8) – Found in Immunocompromised patients (HIV).

Epstein-Barr virus (EBV) – Found in Hodgkin's Lymphoma.

Cytomegalovirus (CMV) - Found in female genital tract, infectious lesions, respiratory tract, salivary glands and urinary tract.

Herpes I and II – Found in female and male genital tract, oral, esophagus, infectious lesions, nipple, respiratory tract, etc.

Human Papillomavirus (HPV) Both High Risk and Low Risk Performed on tissue and liquid based preparation (LBP) -ThinPrep PAP smear vial (found in female and male genital tract, anal lesions, and perianal lesions).

IHC Staining is also used for diagnosing the presence of bacteria such as:

Helicobacter pylori (H.Pylori) – Found in intestinal tract.

Spirochete (Treponema pallidum) – Found in Syphilis patients.

Immunofluorescence Staining

Performed on most tissue (Frozen sections)

In-situ Hybridization

Kappa/Lambda: Performed on any tissue or body fluid.

Additional tests available:

Chlamydia/Gonorrhea by PCR

Herpes I/II by PCR

Strep B by PCR

POC DNA ploidy analysis

Other common tests available:

Cytogenetics

POC cytogenetics

K-ras mutation

BCR-ABL by PCR or FISH

T-Cell gene rearrangement

EGFR mutation

Our Hematopathologist at WCP Laboratories is **Dr. Charles Tsai** who brought FLOW Cytometry to the St. Louis area over 25 years ago. He has trained and assisted other pathologists in learning the skills of diagnosing lymphoma and leukemia patients through FLOW Cytometry.

Dr. Charles Tsai has also developed his own IHC staining CG5.9 (I-CAM) over 25 years ago which is still in use at WCP Laboratories and Washington University in St. Louis, Missouri.

