

Testing for Chromosomal Abnormalities



Prenatal



Constitutional

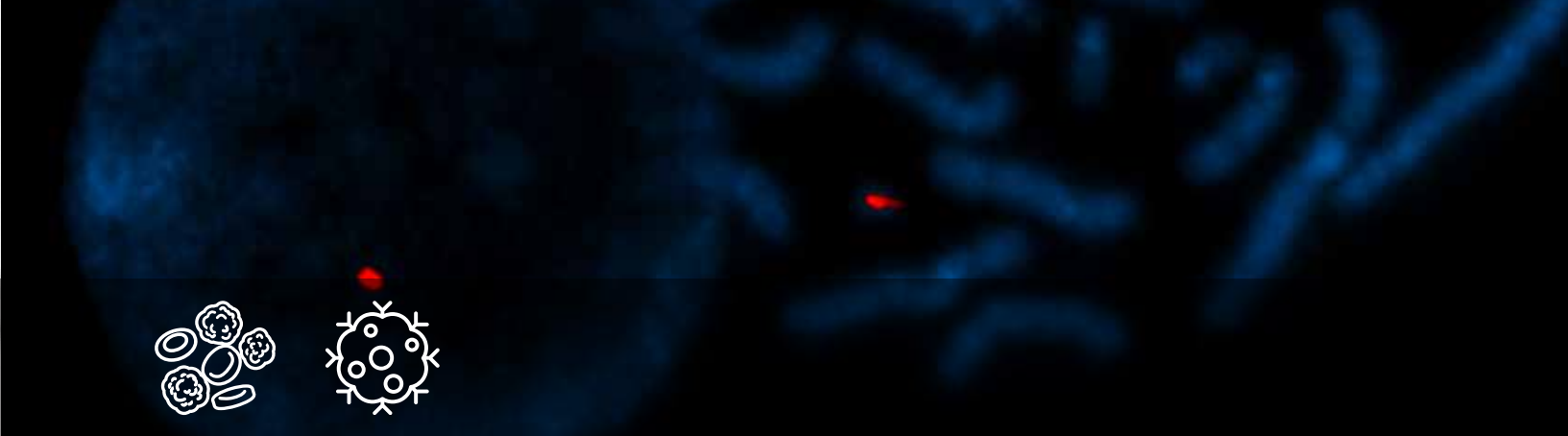


Hematologic
Malignancy



Solid Tumor

Extensive test menu for all specimen types that aligns with the latest clinical and laboratory guidelines



Prenatal and Constitutional Cases

EXPERT CONSULTATION

Our dedicated genetic counselors provide:

- Test selection guidance
- Case review and management for every prenatal case
- Interpretation assistance for complex findings
- Variant reevaluation services
- Local resource identification

OPTIMAL PATIENT CARE

Our full-service Cytogenetics Department provides outstanding stewardship:

- Expedited chromosome analysis for newborns ≤ 7 days
 - » Preliminary report available in 2–3 days to provide early actionable insights
- Customized interpretive information and follow-up test recommendations based on ACMG/ClinGen standards
- Interpretation of structural variants
- Postnatal microarray testing includes chromosome studies

ACCEPTED SPECIMEN TYPES

Chromosome Analysis

- Peripheral blood
- Amniotic fluid
- Chorionic villus
- Skin biopsy
- Products of conception

FISH Analysis

- Peripheral blood
- Chorionic villus
- Amniotic fluid

Genomic Microarray Analysis

- Peripheral blood
- Chorionic villus
- Amniotic fluid
- Buccal swab
- Products of conception (fresh or FFPE tissue)

Hematologic Malignancy and Solid Tumor Cases

MAXIMUM CLINICAL IMPACT

- Certified by the Children's Oncology Group (COG), the world's largest childhood and adolescent cancer research organization
- Expedited *PML::RARA* testing by fluorescence in situ hybridization (FISH) for rapid confirmation of acute promyelocytic leukemia (APL)
- Reduced redundant testing with internal review of all FISH orders
- High diagnostic yield and efficient turnaround times
 - » Optimized chromosome analysis includes:
 - Specialized cultures for acute and mature lymphoid cell malignancies (including CpG-stimulation for chronic lymphocytic leukemia [CLL])
 - Routine medical director review of more karyograms per case than required by the College of American Pathologists (CAP)
- Comprehensive, up-to-date reporting practices, including classification according to the World Health Organization (WHO), the International Consensus Classification (ICC), the National Comprehensive Cancer Network (NCCN), and ACMG/the Cancer Genomics Consortium (CGC).

View our complete cytogenetics testing suite at aruplab.com/cytogenetics.

ACCEPTED SPECIMEN TYPES

Chromosome Analysis

- Bone marrow
- Leukemic blood
- Lymph node
- Solid tumor

FISH Analysis

- Bone marrow
- Isolated plasma cells
- Leukemic blood
- FFPE tissue

Genomic Microarray Analysis

- Bone marrow
- Isolated plasma cells
- Leukemic blood
- Solid tumors (FFPE tissue)

To see all probes, visit aruplab.com/probes.



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*ARUP is a nonprofit enterprise of the University of Utah
and its Department of Pathology.*

