

BASIC SCIENCE RESEARCH OPPORTUNITIES

- **Bhavana Dave, Ph.D.**

E-mail: bdave@unmc.edu

- **Warren Sanger, Ph.D.**

E-mail: wgsanger@unmc.edu

- **Julia Bridge, M.D.**

E-mail: jbridge@unmc.edu

Cytogenetics, Fluorescence in situ Hybridization (FISH), Multi-color FISH, and array based Comparative Genomic Hybridization (aCGH) techniques are applied to examine several constitutional and acquired genetic abnormalities. Research opportunities are available for in-depth investigation of a variety of genetic changes. Prospective and retrospective studies can be performed in different tissue types including peripheral blood, products of conception, amniotic fluid, bone marrows, lymph nodes and other solid tumors. Current Research projects include investigations on genetic changes that have diagnostic and prognostic implications in:

- ***Hematologic Malignancies*** including but not limited to,
Leukemias: ALL, AML, CML, CLL
Lymphomas: Non-Hodgkin's Lymphomas and Hodgkin's Disease
Plasma Cell disorders, including Multiple Myeloma
Myeloproliferative disorders
Myelodysplastic syndromes
- ***Bone and Soft tissue malignancies*** including but not limited to,
Tenosynovial giant cell tumor
Chondromyxoid fibroma
Ovarian fibromas and thecomas
Rhabdomyosarcoma
Aneurysmal bone cyst
Dermatofibrosarcoma protuberans and giant cell fibroblastoma
Myxoid liposarcoma
Ewing's sarcoma
Papillary glioneuronal tumor
- ***Various Micro-Deletion/Duplication Syndromes***

CASE REPORT OPPORTUNITIES

- **Julia Bridge, M.D.**

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