The IU Genetic Testing Laboratories (IUGTL) at Indiana University School of Medicine are very excited to announce that we have added Prenatal Microarray with Abbreviated Chromosome Analysis to our testing menu. Additional information regarding this testing and important changes to existing prenatal testing options are listed below.

*NEW* Prenatal Chromosomal Microarray (CMA) with Abbreviated Chromosome Analysis:

- Prenatal CMA is performed using the CytoScan™ HD microarray platform (ThermoFisher) with approximately 1.9 million non-polymorphic copy number probes and 743,000 single nucleotide polymorphism (SNP) probes. This test can detect genomic imbalance greater than 25 kb throughout the entire genome and stretches of absence of heterozygosity (AOH), suggestive of uniparental disomy or identity-by-descent (i.e. parental relatedness).

- An abbreviated (5-cell) chromosome analysis is included to rule out tetraploidy and rearrangements not detected by microarray, such as balanced translocations and inversions. Maternal cell contamination studies are performed concurrently.

- IUGTL will provide collection kits on request and will pay courier charges. Please call or email Kristen (317-274-2243, klbennet@iu.edu) or Ronae (317-278-6528, rdw2@iu.edu) for assistance.

- Genetic counseling is recommended prior to the ordering of prenatal CMA. To assist in counseling, the laboratory is providing the patient consent form, additional information for providers, and a prenatal CMA brochure. Additional information can be found on our website: geneticslab.medicine.iu.edu
Changes to existing prenatal tests:

- IUGTL is changing its policies regarding prenatal aneuploidy FISH. Under the new policy, aneuploidy FISH will be offered as a comprehensive panel (including probes targeting chromosomes 13, 18, 21, X and Y) without the option to select a subset of probes. These changes are based on a review of current reference laboratory practices and reporting standards.

- Aneuploidy FISH results will be reported independently. Instead of faxing a preliminary result, a final report will be issued once results become available (typically 24-48 hrs). This test requires a concurrent order for chromosomes or CMA with abbreviated chromosomes.