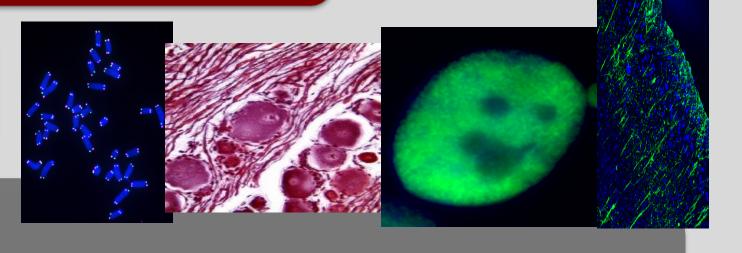


WSU Spokane Core Facilities



Imaging

Services



- Live cell imaging
- Optical sectioning of thick biological samples (tissues or cells)
- 3- and 4-D reconstruction of images
- 3-D mosaic imaging
- Multi-area time-laps and spectral scanning

Equipment





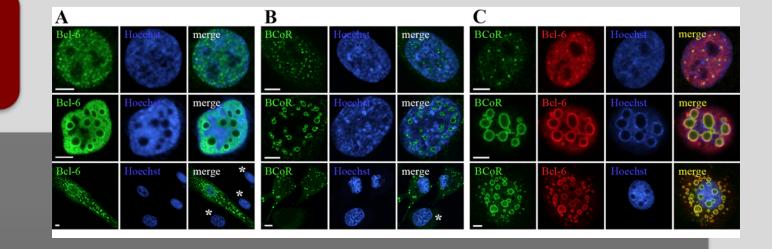


- Olympus FluoView 1000 laser scanning confocal/IX81 motorized inverted microscope with deconvolution
- Zeiss Axiovert A1 inverted fluorescence microscope
- Zeiss Axiolmager M2 upright microscope

For more information, contact Kit Hayworth, c.hayworth@wsu.edu

Flow Cytometry

Services



- Cell sorting
- Able to analyze multiple fluorescent probes simultaneously
- Live cell imaging

Equipment



- Beckman Coulter Gallios 6 flow cytometer
- BD Accuri C6 flow cytometer
- Bio-Rad S3 cell sorter

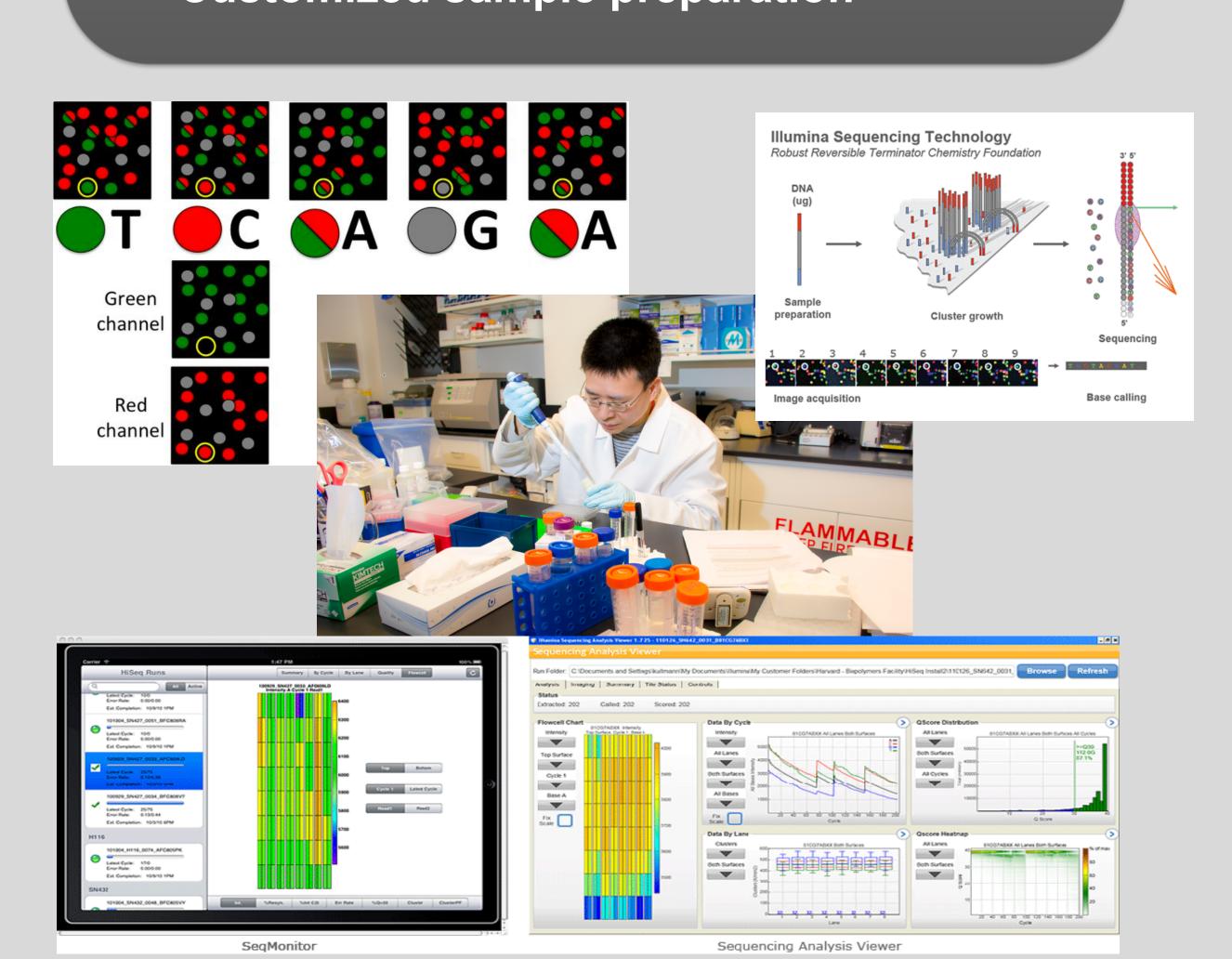
For more information, contact Diana Browning, diana.browning@wsu.edu

Genomics

Services



- Human/mouse whole genome sequencing
- Human/mouse whole exome sequencing
- Human/mouse mRNA-Seq
- Human/mouse ChIP-Seq
- Library preparation
- QC/QA of libraries and nucleic acids
- Amplicon sequencing
- Customized sample preparation



Equipment

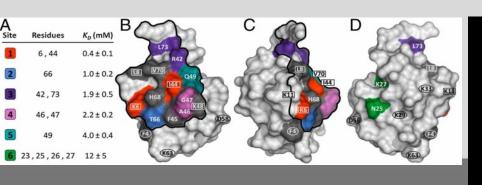


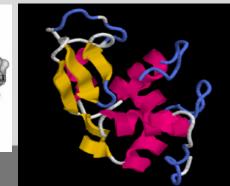
- Illumina HiSeq 2500
- Illumina NextSeq 500
- Covaris M220 Focused ultrasonicator
- StepOnePlus qPCR maching
- Qigen TissueLyser II

For more information, contact Ben Liu, yiyong.liu@wsu.edu

Nuclear Magnetic Resonance

Services





- Analysis of protein-ligand interactions
- Determination of peptide or protein 3D structure
- Identification of relative location of atoms within a molecule
 - Resolution of stereoisomer structures

Equipment

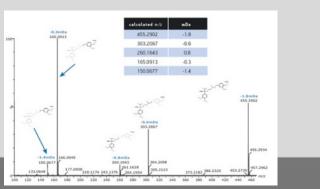


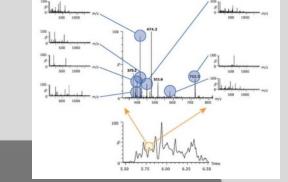
• Bruker 500 MHz AVANCE II NMR used for routine ¹H, ¹³C and ¹⁹F 1D and 2D experiments

For more information, contact Zuping Xia, zuping.xia@wsu.edu

Mass Spectroscopy

Services





- Quantitative analysis of small molecules
- Identification of unknown metabolites
- Protein /peptide identification and quantification
- Structural characterization of unknown compounds

Equipment



- Waters XEVO G2-S QTOF/UPLC System
- AB SCIEX Qtrap 6500 LC/MS/MS-Shiamzu
 Nexera UFLC

For more information, contact Gang Chen, gang8.chen@wsu.edu