CORE FACILITIES STAFF

www.core.igb.illinois.edu

Pictured from left to right:

Mayandi (Shiv) Sivaguru, PhD, PhD
Assistant Director
sivaguru@illinois.edu
217.333.1214

Austin Cyphersmith, PhD
Research Specialist
ajcypher@illinois.edu
217.244.9654

Kingsley Boateng, PhD
Research Specialist
kboateng@illinois.edu
217.300.1642

Joyce Koeberlein
Administrative Support
joyce2@illinois.edu
217.244.0340

Glenn Fried, PhD
Director
gfried@illinois.edu
217.333.4328

Xudong Guan, PhD
NMR Specialist
xdguan@illinois.edu
217.244.2114
Core Facilities at the IGB is your resource for Light Microscopy, Image Analysis, and Analytical Instrumentation. Our facility provides both step-by-step instruction and in-depth training, allowing researchers to acquire new techniques quickly. With 24/7 access for both IGB researchers and the campus community, IGB Core Facilities can be viewed as an extension of your lab. Our facility is meant to encourage innovation—try new techniques and approaches to achieve your research goals without a significant investment in instrumentation or time.

**WE OFFER:**

- High-end equipment
- User training
- Ongoing support, including experiment design and data interpretation
- Twenty-four hour access

More information is available at: www.core.igb.illinois.edu

**OPTICAL MICROSCOPY**

- **Light Sheet Microscope:** Zeiss Lightsheet Z.1
- **Structured Illumination Microscope:** Zeiss Elyra S1
- **High Resolution Confocal:** Zeiss LSM 880
- **Multiphoton Confocal:** Zeiss LSM 710
- **Confocal:** Zeiss LSM 700
- **Spinning Disk Confocal:** Andor Revolution System
- **Fluorescence:** Zeiss Axio Observer Z1 with Apotome
- **Slide Scanner:** Olympus Nanozoomer with Fluorescence
- **Laser Capture:** Veritas
- **Dissecting Scope:** Zeiss Stereolumar V12, Zeiss AxioZoom V16
- **Serial Block Face Imaging Instrument:** Leica RM2255 and Zeiss Stereolumar V12

**ATOMIC FORCE MICROSCOPE**

- **AFM:** Asylum Cypher

**SAMPLE PROCESSING**

- **Cryostat:** Leica CM3050
- **Tissue Processor:** Leica ASP300
- **Embedding Station:** Leica EG1150 C and EG1150 H
- **Microtome:** Leica RM2255

**ANALYTICAL**

- **Realtime PCR:** Applied Biosystems 7900
- **GCMS:** Agilent 5975D
- **Gel Imager:** LAS 4000

**SOFTWARE**

- **3D Reconstruction:** Imaris, Analyze 3D
- **Deconvolution:** AutoQuant
- **2D Image Analysis:** Axiovision
- **PCR Analysis:** SDS 2.3

**CAMERAS**

- **Digital SLR:** Canon EOS 5D MarkII
- **Light Kit and Backdrop**
- **Macro Lens:** Canon 65 mm f 2.8

**NMR**

- **NMR:** Agilent 600MHz