



LOUISIANA STATE UNIVERSITY

AND AGRICULTURAL AND MECHANICAL COLLEGE

Division of Biotechnology and Molecular Medicine (BIOMMED)

LSU School of Veterinary Medicine

Dear CEIDR faculty members,

The Center for Experimental Infectious Disease Research (CEIDR) administered by the SVM Division of Biotechnology & Molecular Medicine (BioMMED) operates three Research Support Cores that are based on leveraging existing Research Cores and Equipment within the LSU School of Veterinary Medicine, the LSU main campus and the LSU Agricultural Center. The **Microscopy and Immunopathology Core** provides access to SVM FACs, Microscopy and Pathology services, as well as Microscopy services provided by the LSU Shared Instrumentation Facility (SIF) located on the first floor of the Chemistry Annex Building. **The Protein Core Lab** provides research support and equipment for protein production and purification and monospecific antibody production through a dedicated laboratory located in Wilson Hall, as well through access of services provided by the Agricultural Biotechnology Laboratory (ABL) also located on the first floor of Wilson Hall in the LSU main campus. ABL provides a variety of services and equipment including peptide synthesis and characterization. In addition, the mass spectrometry and NMR facilities in the LSU Department of Chemistry can be accessed through this Core. **GeneLab** provides research support and equipment for molecular biology, real-time PCR and Next Gen Sequencing as well as bioinformatics services through collaboration with the LSU Center for Computation and Technology (CCT).

- CEIDR currently supports 8 pilot projects led by PIs at LSU and the Tulane National Primate Center (TNPRC). Each pilot is awarded an additional \$3,000 toward expenses incurred at any of the above mentioned core facilities.
- All CEIDR investigators at LSU and TNPRC listed in our CEIDR website (www.cobre.ceidr.lsu.edu) are eligible to receive a 25% reduction to costs charged by any of the SVM and LSU Cores listed above.
- ❖ To further facilitate CEIDR-led research, all CEIDR researchers can submit a request for support for a defined project that can be carried out in collaboration with any Cores listed above on a competitive basis. Each selected project will be allocated \$3,000 to fully or partially offset expenses by each engaged Core. PIs with active pilot grants are also eligible to apply, however their proposal cannot overlap with currently active CEIDR Pilots. The leadership team of each core will evaluate each project based on research impact toward obtaining quality results that can be used for increasing the competitiveness of future application to NIH or other federal agencies, the potential for use of reagent and assays by other CEIDR

investigators and the overall feasibility of the project. Examples include: the development of polychromatic flow cytometry (FACS) assays to measure specific cellular parameters; Development of immunopathological assays through collaboration with the SVM histology core; production of a monospecific antibody to an expressed and purified protein; construction of recombinant virus for a variety of purposes; determination of protein-protein interactions through NMR or surface plasmon resonance technologies, Next Gen Sequencing of viral and bacterial isolates, RNAseq approaches to understanding host-pathogen interactions, digital PCR applications, etc.

- ❖ Proposals should clearly indicate the core which will be engaged with a description of the research protocol and or assay to be followed or developed. Identifiable sections of no more than two pages proposal should include: 1) Purpose of the Project; 2) Experimental approach toward the development of a reagent or assay; 3) Justification (why is this needed) 4) Core(s), personnel and equipment needed. 4) References.

Please send your proposals to Dr Ramesh Subramanian, no later than December 12th, 2016. The proposals will be evaluated as and when they are submitted by the Core Directors and staff in consultation with the Administrative Core and the Coordinator. They will be prioritized for overall research impact. We anticipate 3-5 projects of each Core depending on the availability of funds and resources. All projects will end by March 31, 2017. Please contact Dr. Ramesh Subramanian (ramji@lsu.edu) if you need any other information.

Please contact the personnel for each Core for specific assistance with experimental methodologies and capabilities. Also, you can contact any other LSU Core Facilities and Cost Centers, which may be needed for a specific research project.

Molecular Immunopathology Core (MIP)

Core Director:	Kevin Macaluso, PhD (LSU-SVM)
Associate Director - Pathology:	Nobuko Wakamatsu, DVM, PhD (LSU-SVM)
Associate Director - Immunology:	Samithamby Jeyaseelan, PhD (LSU-SVM)
Assistant Director - Immunology:	Antonietta Guerrero-Plata , PhD (LSU-SVM)
Associate Director - Microscopy:	Xiaochu Wu, PhD (LSU-SVM)
Advisor-Microscopy and Pathology:	Xavier Alvarez , PhD (TNPRC)
Advisor-Immunology:	Marcello Kuroda, PhD (TNPRC)
Advisor-Pathology:	Ron Veazey, DVM, PhD (TNPRC)
Advisor-Pathology:	David Scollard, MD, PhD (Hansen's Disease Research Center)

Protein Core Laboratory (PCL)

Co-Director:	Juan J Martinez, PhD (LSU-SVM)
Co-Director:	Megan Macnaughtan, PhD (LSU-CBS)
Assoc. Director:	Muzammel Haque, PhD (LSU-SVM)
Collaborator:	Ted Gauthier, PhD (LSU-LAES)
Collaborator:	Kermit Murray, PhD (LSU-CBS)
Advisor:	Bapi Pahar, DVM, PhD (TNPRC)

Advisor: Marcia Newcomer, PhD (LSU-CBS)
Advisor: Yong-Hwan Lee, PhD (LSU-CBS)

GeneLab Core Facility

Core Director: K. G. Kousoulas, PhD (LSU)
Associate Director: Vladimir N. Chouljenko, PhD (LSU)
Associate Director: Joohuyn Kim, PhD (LSU)
Staff Scientist: Nithya Jambunathan, PhD (LSU)
Staff Scientist: Ramesh Subramanian, PhD (LSU)
Staff Scientist: Nayong Kim, PhD (LSU)
Research Associate: Thaya Stoufflet, BS (LSU)
Faculty Advisor: Antonito Panganiban, PhD (TNPRC)
Faculty Advisor: Christopher Taylor, PhD (LSUHSC-NO)
Faculty Advisor: Maheshi Dassanayake, PhD (LSU)
Graduate Assistant: Shayan Shams, BS (LSU)

Sincerely.

Rhonda Cardin, PhD

Associate Dean for Research & Advanced Studies
Professor, Pathobiological Sciences
PI, LSU-Tulane COBRE

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