

**IDRC Purpose:**  
To Defeat Global Health Threats  
*We Do the Difficult*

**IDRC Values:**  
Creativity, Knowledge,  
Achievement, Honesty,  
Competency

## BioMARC (Biopharmaceutical Manufacturing and Academic Research Center) News

### Internship Program for MIP (Microbiology, Immunology, Pathology) Plan B Master's Students

Beginning in spring 2019, up to 6 graduate students can enroll in a 5-6 week BioMARC internship class. Students will take a mock 'product' through the manufacturing process, getting exposure to all aspects of biologics manufacturing including: facility and equipment planning, project management, process development, manufacturing, quality control, and quality assurance. Hands on activities will be supported by an afternoon lecture series to provide a quality, in-depth perspective of biopharma manufacturing. Prerequisite courses include MIP 540 (Biosafety in the Research Laboratories) & MIP 611 (Advanced Microbiological Methods Research Methods). *Additional information:* [BioMARC](#) and [MIP Master of Science in Microbiology Plan B](#).

## RIC (Research Innovation Center) News

### Longtime RIC Tenant MPTI Grows Into New Facility

When CSU grad Lisa Herickhoff, Ph.D., moved her fledgling new enterprise, Membrane Protective Technologies, Inc. (MPTI), into the RIC almost four years ago, the business was mostly a plan and vision. She had a single employee, one patent, and had performed "some" feasibility work in a lab. The initial product concept was still taking form. By 2018, the years of hard work have transformed MPTI into a successful small company offering a suite of products (GameteGuard™) to improve yields involved in the freezing / thawing cycle of sperm for livestock reproduction. MPTI now has 8-10 granted patents, 6 employees, paying customers, and 2 attractive licensing deals in different vertical markets (dairy and swine). As a result of this growth, MPTI has built a custom facility north of Fort Collins that they have moved into that will house all of their lab and office operations, and will serve as the headquarters for the next stage of their corporate growth.



MPTI team at their new facility



GameteGuard™ helps improve livestock reproduction yields

Dr. Herickhoff commented, "Our time in the RIC was wonderful. MPTI employees loved being a part of the community at CSU. We were able to advance the science we are building the company on in no small part due to the world-class infrastructure and facilities in the RIC."

Dr. Ray Goodrich, Executive Director of the IDRC, which houses the RIC, further noted: "We are so happy to see MPTI's success. Although we will miss having them in our community, MPTI is a perfect example of what the RIC offers to the Northern Colorado Community. An entrepreneur with vision, smarts, and drive can translate scientific understanding into viable commercial products and a growing company that benefits our economy. The RIC facility here at CSU is a valuable part of the ecosystem to help this happen. We look forward to following the next stage of MPTI's growth with pride." *Contact: Lisa Herickhoff, [lisah@membraneprotect.com](mailto:lisah@membraneprotect.com)*

## RIC (Research Innovation Center) News *Continued*

### New Tenant VeriPrime Joins RIC

VeriPrime Beef Cooperative, an innovative veterinarian led organization with over one million head of cattle under their care, has moved two key divisions into the RIC. Both the VeriPrime Research Division and the VeriPrime Livestock Production Physiology Lab are now located in the RIC. VeriPrime plans to expand their collaborations with CSU faculty and students, with a large focus on developing novel assays for oxidative stress and pain in feedlot and dairy cattle. Specific research areas include: oxidative stress and lipid peroxidation biomarkers, antioxidants and pro-oxidants in cellular systems, acute phase proteins and inflammatory response, identifying pain and discomfort under current production conditions, lameness, joint disease, bone pathology in feedlot cattle, and improving cattle welfare through nutritional interventions. A primary factor driving VeriPrime to move into the RIC was an interest in hiring CSU students. *Full press release [here](#). Contact: Robert Coffey, DVM, [rcoffey1374@msn.com](mailto:rcoffey1374@msn.com)*



### PhotonPharma Internship Award (tissue culture, Flow Cytometry)

PhotonPharma was awarded \$10K to fund CSU student Haemin Park for a project that focuses on developing a novel cancer vaccine that combines whole inactivated tumor cells with novel adjuvants to fight solid tumor cancers. The work will include mice and canine tissue culture, flow cytometry and Mirasol that utilizes riboflavin and UV light to inactivate tumor cells. Haemin is a first-year DVM student at CSU. *Contact: Amanda Guth, [Amanda.guth@colostate.edu](mailto:Amanda.guth@colostate.edu)*

PhotonPharma  
intern Haemin Park

## IDRC General News

### New IDRC Website is Live: <https://www.research.colostate.edu/idrc/>

The website features a fresh new look and great content highlighting what we do.

### See The New RIC Virtual Tour [Video](#)

Featuring commentary from existing tenants on what they love about working at the RIC, the video also highlights our infrastructure and stunning geography up against the foothills.



The IDRC team poses for a picture on a beautiful fall day during our barbeque and employee recognition event.

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