

Hubin, SWOSU Receive Research Grant to Fight Diseases

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SWOSU Associate Professor Dr. Tim Hubin (left) of the chemistry and physics department in Weatherford received second year funding for a research project on fighting various diseases. One of his student assistants is SWOSU student Courtney Garcia of Altus.

Southwestern Oklahoma State University in Weatherford received a second year of funding as a collaborating institution with the University of Oklahoma Health Sciences Center from a biomedical research grant through the Oklahoma IDeA Network of Biomedical Research Excellence (OK-INBRE).

SWOSU Associate Professor Dr. Tim Hubin received the \$128,899 grant, which is administered through the National Institutes of Health. His project is entitled "Development and Screening of Transition Metal Complexes as CXCR4 Antagonists-INBRE FY10".

The research will focus on blocking the CXCR4 chemokine receptors found on the surface of immune cells. CXCR4 is involved in a number of disease states, including HIV, inflammatory diseases and cancer metastasis. Dr. Hubin and his students synthesize and characterize transition metal complexes that have shown the ability to bind to and block, or antagonize, the CXCR4 receptor, preventing it from carrying out its normal role in these diseases. Dr. Hubin collaborates with other researchers in England and Belgium on this research.

The grant, in part, supports scientific research that enhances the professional and scholarly development of faculty at predominantly undergraduate institutions. The program allows students first-hand experience working in biomedical research laboratories. Dr. Hubin will serve as a mentor to guide undergraduate students into the exciting world of scientific research.