OAKLAND UNIVERSITY™

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Student research focuses on generic drugs

*By **Patricia A. Beaver**, assistant vice provost for research and graduate study*

Pulak Ghosh, an OU Ph.D. student, received funding to study complex statistical designs and is conducting biostatistics research under the guidance of Professor of Mathematical Sciences Ravi Khattree. Ghosh's research also is funded in part through Oakland University's Student Research Scholar Program.

The research, "A Bayesian Approach to Bioequivalence," uses data to examine generic drugs, referred to as bioequivalents by the U.S. Food and Drug Administration, to determine their potential effectiveness without engaging in costly clinical trials. By applying a model with a special crossover design to existing clinical results, Ghosh hopes to be able to identify generic equivalents with the most potential for success in the marketplace.

Pharmaceutical companies often study bioequivalents to try to capture part of the market with generic offerings that can compete with brand-name products.

The results of Ghosh's research could make an important contribution to the field, especially to scientists in developing countries. Those scientists could produce low-cost generic equivalents as an alternative to expensive brand-name products to help battle widespread epidemics.

Ghosh will graduate from Oakland University this spring with a doctor of philosophy in applied mathematical sciences. In the fall, he plans to join the faculty at Georgia State University in the Department of Statistics.

SUMMARY
Pulak Ghosh, a Ph.D. student, received funding to study complex statistical designs and is conducting biostatistics research under the guidance of Professor of Mathematical Sciences Ravi Khattree. The research examines generic drugs to determine their potential effectiveness without engaging in costly clinical trials.

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