



65 West Watkins Mill Road
Gaithersburg, MD 20878
tel: 240-632-0740
fax: 240-632-0735
www.genvec.com

FOR IMMEDIATE RELEASE:

CONTACT:

Douglas J. Swirsky
Chief Financial Officer
(240) 632-5510
dswirsky@genvec.com

**GENVEC ANNOUNCES MULTIPLE PRESENTATIONS AT THE
AMERICAN SOCIETY OF TROPICAL MEDICINE AND HYGIENE MEETING**

Presentations Will Highlight Research Conducted in GenVec Malaria Vaccine Program

GAITHERSBURG, MD — December 5, 2008 — GenVec, Inc. (Nasdaq: GNVC) announced today that the company will present on GenVec's malaria vaccine program at the American Society of Tropical Medicine and Hygiene (ASTMH) 57th Annual Meeting, which will take place in New Orleans, LA on December 7– 11, 2008. Two presentations, highlighting research conducted in this program, will be given by GenVec scientists. Additional presentations, to be given by GenVec collaborators, will provide updates on malaria vaccine development, ranging from preclinical research through ongoing clinical studies using GenVec's core adenovector technology.

Joseph L. Bruder, Ph.D., GenVec's Director of Vector and Vaccine Programs, will give two research presentations: "Advanced generation adeno-based vectors for malaria vaccine development" and "Development of a multi-antigen multi-stage adenovector-based malaria vaccine that induces robust T-cell and antibody responses." These presentations will be available on GenVec's website on December 11, 2008. To view these presentations, visit www.genvec.com, click on "Investor Relations" and then "Webcasts and Data."

"Research presented at the ASTMH Annual meeting highlights the potential of GenVec's vaccine programs," stated Dr. Rick King, GenVec's Senior Vice President of Research. "We are excited about the prospective use of our technology in the prevention of malaria."

About GenVec

GenVec, Inc. is a biopharmaceutical company developing novel therapeutic drugs and vaccines. GenVec's lead product, TNFerade™, is currently in a pivotal clinical study (PACT) in locally advanced pancreatic cancer. Additional clinical trials are in progress in rectal cancer, head and neck cancer, and melanoma. GenVec also uses its proprietary adenovector technology to develop vaccines for infectious diseases including HIV, malaria, foot-and-mouth disease, respiratory syncytial virus (RSV), and influenza. Additional information about GenVec is available at www.genvec.com and in the company's various filings with the Securities and Exchange Commission.

Statements herein relating to future financial or business performance, conditions or strategies and other financial and business matters, including expectations regarding future revenues and operating expenses, are forward-looking statements within the meaning of the Private Securities Litigation Reform Act. GenVec cautions that these forward-looking statements are subject to numerous assumptions, risks and uncertainties, which change over time. Factors that may cause actual results to differ materially from the results discussed in the forward-looking statements or historical experience include risks and uncertainties, including the failure by GenVec to secure and maintain relationships with collaborators; risks relating to the early stage of GenVec's product candidates under development; uncertainties relating to clinical trials; risks relating to the commercialization, if any, of GenVec's proposed product candidates; dependence on the efforts of third parties; dependence on intellectual property; and risks that we may lack the financial resources and access to capital to fund our operations. Further information on the factors and risks that could affect GenVec's business, financial conditions and results of operations, are contained in GenVec's filings with the U.S. Securities and Exchange Commission (SEC), which are available at www.sec.gov. These forward-looking statements speak only as of the date of this press release, and GenVec assumes no duty to update forward-looking statements.

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