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**DATA FROM TNFERADE™ ESOPHAGEAL CANCER STUDY
PRESENTED AT 2010 ASCO GASTROINTESTINAL CANCER SYMPOSIUM**

GAITHERSBURG, MD – January 22, 2010 – GenVec, Inc. (Nasdaq: GNVC) announced today that data from the Company’s trial in esophageal cancer were presented at the American Society of Clinical Oncology’s 2010 Gastrointestinal Cancer Symposium in Orlando, Florida on January 22, 2010.

The poster, titled, “Long term survival analysis of multicenter clinical trial using endoscopy (END) and endoscopic ultrasound (EUS) guided fine needle injection (FNI) of antitumor agent (TNFerade Biologic (TNF)) in patients with locally advanced esophageal cancer,” reports on updated efficacy and survival data. In the 24 patients receiving TNFerade in combination with chemoradiation, the median survival was 47.7 months. Median survival from other historical clinical trials in similar stage disease ranged from 9.7 to 34 months.

Research presented in the poster received a prestigious ASCO Foundation Merit Award. In addition, the poster received focused attention at the oral review session on esophageal cancer on January 22, 2010.

“This symposium brings together the greatest thought leaders in this area of oncology and we are pleased to be presenting this analysis at this event,” stated Mark Thornton, Ph.D., GenVec’s Senior Vice President of Product Development. “The encouraging increases in survival versus historical controls will warrant additional evaluation.”

The presented poster is available on GenVec’s website, www.genvec.com. To view the poster, click on “Investor Relations” then “Webcasts and Data.”

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. TNFerade has also been and is currently being evaluated for its potential use in the treatment of several other cancers, including esophageal cancer, rectal cancer, and head and neck cancer. GenVec also uses its proprietary adenovector technology to develop vaccines for infectious diseases including influenza, HIV, malaria, foot-and-mouth disease, respiratory syncytial virus (RSV), and HSV-2. 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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