

# Journal Article Summary

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## **Multiplex Assay for Simultaneous Detection of *Mycoplasma genitalium* and Macrolide Resistance Using PlexZyme and PlexPrime Technology**

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### **Key Points**

- § First clinical evaluation and peer-reviewed publication of ResistancePlus MG
- § Testing 400 samples from 254 (186 males and 68 females) consecutively infected participants, undergoing test of cure - 83% samples were positive, with 56% of positives carrying a macrolide resistance mutation.
- § Comparison of the ResistancePlus MG with a reference qPCR method for *M. genitalium* detection and high resolution melt analysis (HRMA) and sequencing for detection of macrolide resistance mutations.
- § Sensitivity and specificity for *M. genitalium* detection and for macrolide resistance of 99.1/98.5% and 97.4/100%, respectively.
- § Critical need for implementation of diagnostic testing combined with molecular detection of resistance, and antimicrobial surveillance.
- § Determined a considerable advantage of ResistancePlus MG in clinical settings through combined diagnosis and detection of macrolide resistance.