

The 36th Annual Meeting of the Japan Society for Endoscopic Surgery
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***[Abstract Title] (Must be within 15 words [about 100 characters])**

Miniaturized Robotic System for Enhanced Precision and Simplified Control in Endoluminal Surgery

***[Abstract Body] (limited approximately 100-150 words [about 1,100 characters])**

En-bloc resection in endoluminal surgery faces challenges due to cumbersome and unintuitive instruments. Novel flexible robotic system has been developed to address this issue by providing a pair of highly miniaturized, flexible robotic instruments that are manipulated with simplified and intuitive handheld controllers. With five degrees of freedom in each Ø2.5 mm instrument, the system simplifies control, flattens the learning curve, and enhances the clinician's ability to perform en-bloc resection of mucosal neoplasms. The versatile system is compatible with all endoscopes used in current clinical settings and applicable in endoscopic submucosal dissection (ESD) for pre-malignant lesions in gastrointestinal tract and en-bloc resection of bladder tumors (ERBT) via the rigid cystoscopic system. Further applications in natural orifice surgery is feasible with the merit of its size and flexibility. The system is currently undergoing live animal testing in pig models and shall be ready for clinical trials in patients in near coming future.