

INNOVATIVE MICROROBOTS FOR IMPROVED PATIENT CARE

IM_SUPERMAG _CLINIC

A NEXT GENERATION MICROROBOT SYSTEM
FOR PRECISE INTERVENTIONAL PROCEDURES



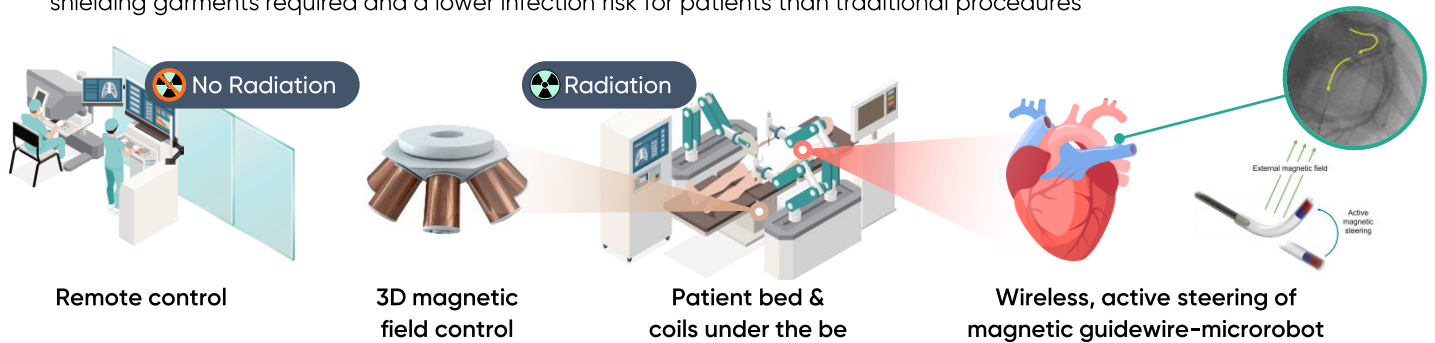
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IM_SUPERMAG_CLINIC

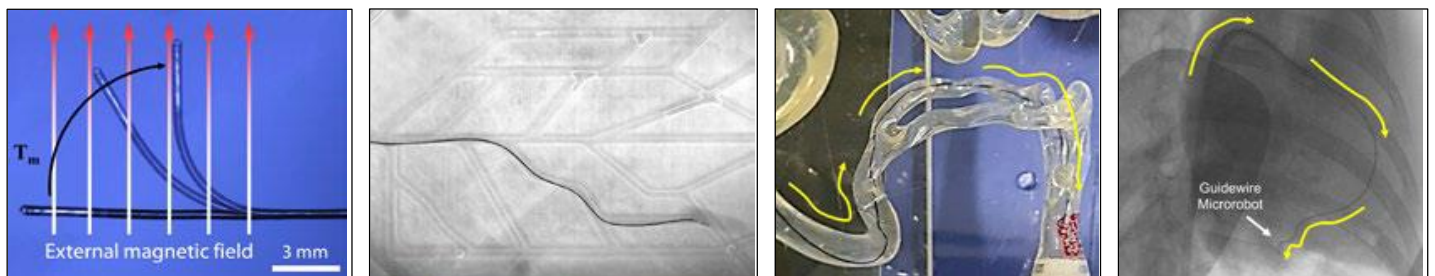
- An advanced medical microrobot system comprising a magnetic guidewire-microrobot and a remotely controllable magnetic actuation system compatible with patient bed for various interventional procedures
- Faster, safer and more precise control (steering & navigation) of guidewires inside complex vascular networks for quicker delivery and implementation of endovascular devices (e.g., stents)
- A less time-consuming treatment, higher operation success rates, less radiation exposure for medical crew, no heavy radiation shielding garments required and a lower infection risk for patients than traditional procedures



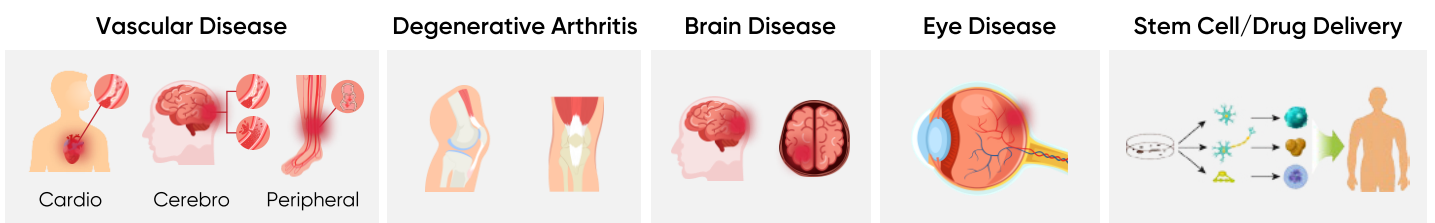
Details of the Overall System



Active Steering of the Guidewire-Microrobot under a 3D Magnetic Field



Applications (Various Interventional Procedures & Targeted Therapy)



- Future development of biomedical microrobot systems will cover a wide range of precision medicine for the treatment of various diseases

Our Partners



Research Publications (from our collaborators, incl. DGIST)

