

From Reconstruction to Innovation: My Journey in Microsurgery

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Abstract

Receiving the **2026 Fu Chan Wei's Young Microsurgeon Award** is a tremendous honor and an important milestone in my career.

During the past decade, my clinical practice and research have focused on advancing reconstructive microsurgery while pursuing innovation that improves patient outcomes. This lecture summarizes my journey through three major fields of reconstructive microsurgery.

First, I will present our experience in **head and neck reconstruction**, focusing on recipient vessel selection, free flap reconstruction, management of difficult salvage cases, and functional restoration following oncologic ablation.

Second, I will discuss our recent work in **robotic-assisted reconstructive surgery**, highlighting the integration of robotic technology into microsurgical reconstruction and its potential role in minimally invasive reconstructive procedures.

Finally, I will introduce our experience in **supermicrosurgery**, particularly lymphaticovenous anastomosis (LVA) for the treatment of extremity lymphedema. Recent developments combining artificial intelligence, and augmented reality navigation have further expanded the precision and possibilities of lymphatic surgery.

Through these experiences, I hope to demonstrate how innovation, collaboration, and persistent clinical practice can continuously advance reconstructive microsurgery. More importantly, I hope to encourage young plastic surgeons to embrace reconstructive surgery, continue exploring new technologies, and contribute to the future development of microsurgery.