healionics

# Sample applications of *STAR* biomaterial

| Key function of *STAR* : | Anti-infection | Anti-scarring | Angio-genesis | Integration scaffold |
|---|---|---|---|---|
| **Ophthalmic** | | | | |
| Glaucoma drainage device *(on market)* | | ✔ | | ✔ |
| Artificial cornea | | | | ✔ |
| Retinal implants | | ✔ | | ✔ |
| **Vascular** | | | | |
| Vascular grafts (AV, PV, CABG) | | ✔ | | |
| Needle-free dialysis port | ✔ | | | ✔ |
| Stent anti-stenosis sleeve | | | | ✔ |
| **Percutaneous devices** | | | | |
| LVAD driveline | ✔ | | | |
| Catheters, feeding tubes | ✔ | | | |
| **Prosthetics** | | | | |
| Breast Implants | | ✔ | | |
| Prosthetic / orthopedic implants | ✔ | | | |
| Implanted hearing devices | | ✔ | | |
| **Surgical products** | | | | |
| Surgical mesh for prolapse/hernia | ✔ | ✔ | | |
| Filler for wrinkles, deep wounds | | | ✔ | ✔ |
| Bone repair / filler | | | | ✔ |
| Tissue/organ culturing scaffold | | | | ✔ |
| PFO closure | | | | ✔ |
| Fistula repair | ✔ | | | ✔ |
| **Sensors** | | | | |
| Glucose sensor implant | | ✔ | | |
| **Therapeutics delivery** | | | | |
| Implanted drug delivery devices | | ✔ | | |
| Insulin islet & other cell seeding | | ✔ | | |
| Brachytherapy radiation seeds | ✔ | | | ✔ |
| Veterinary drug infusion ports | ✔ | ✔ | | |
| **Neural** | | | | |
| Neurostimulation electrodes | | ✔ | | |
| Anti-obesity percutaneous stimulator | ✔ | ✔ | | |