



Tissue
GUARD

Smart Biotechnology for Tissue Engineering

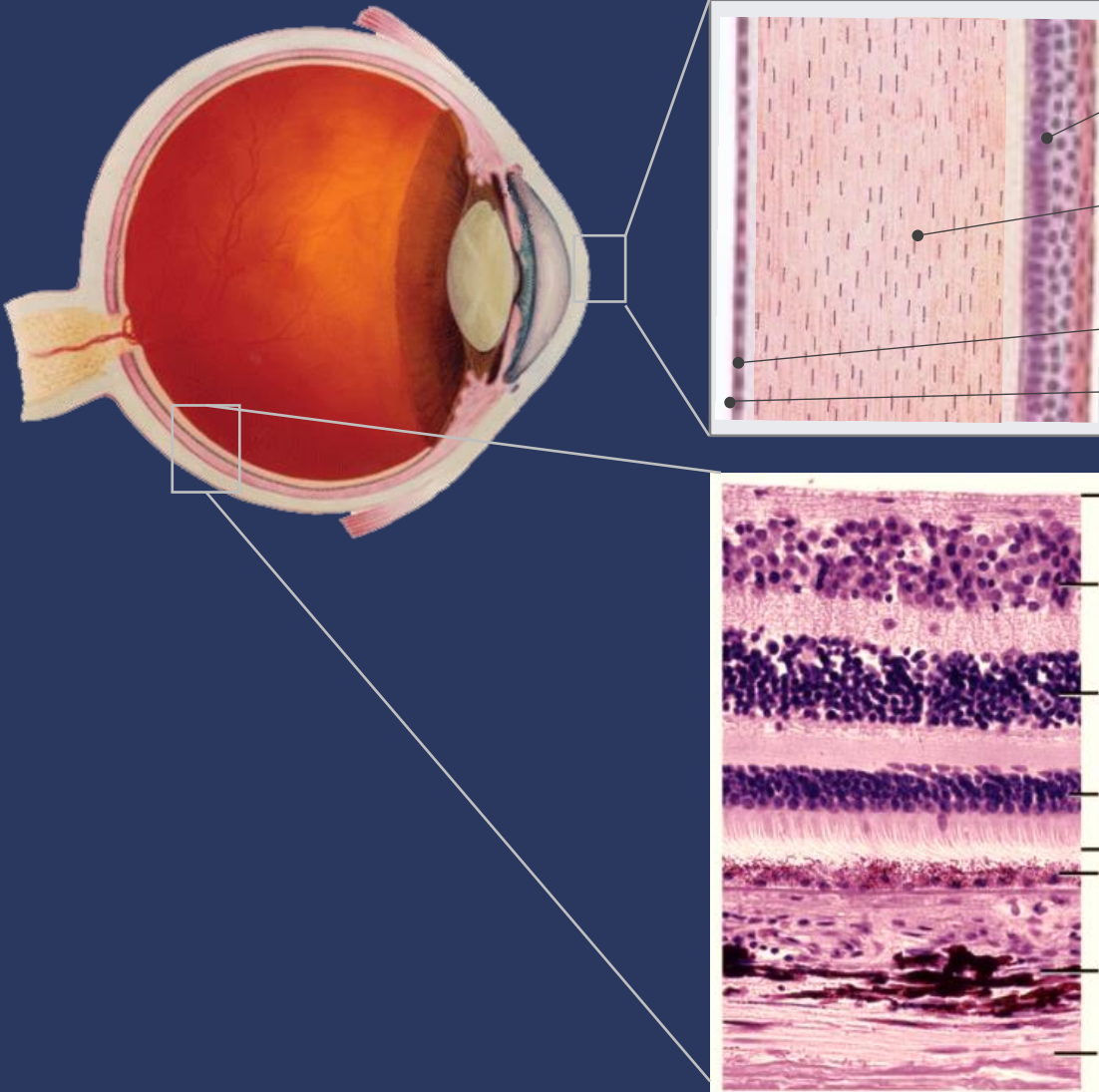
Corneal and Retinal Replacement Therapy Requires a Functional Basement Membrane

Ophthalmology therapy developments

Cornea
Keratoplasty

Transplantable
with TissueGUARD
biotechnology

RPE/Retina
Replacement



Corneal epithelium
Bowman's membrane

Stroma

Descemet's membrane
Corneal endothelium

Ganglion Cells (axons and nuclei)

Bipolar Cells

Photoreceptors (rods and cones)

Pigment layer of retina (RPE)
Brunch's membrane

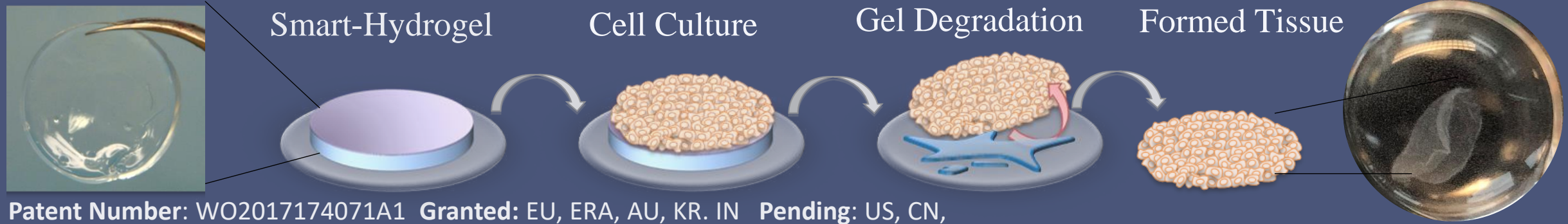
Choroid

Sclera

Innovative TissueGUARD Technologies Form a Ocular Graft with functional Basement Membrane

We specialize in Innovative Biomaterials for Cell, Organoid and Tissue Engineering

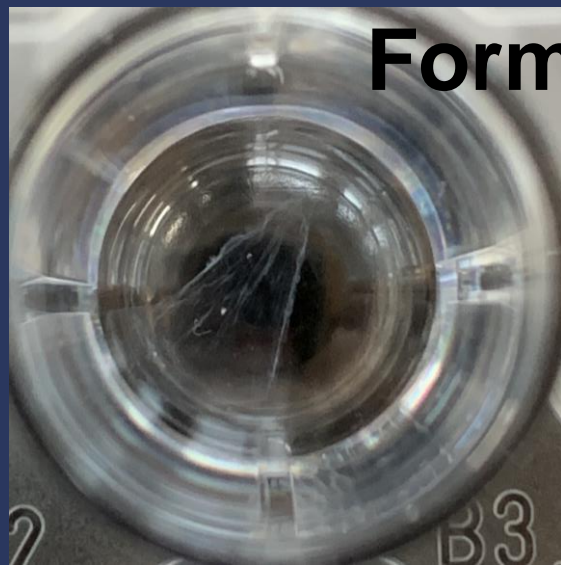
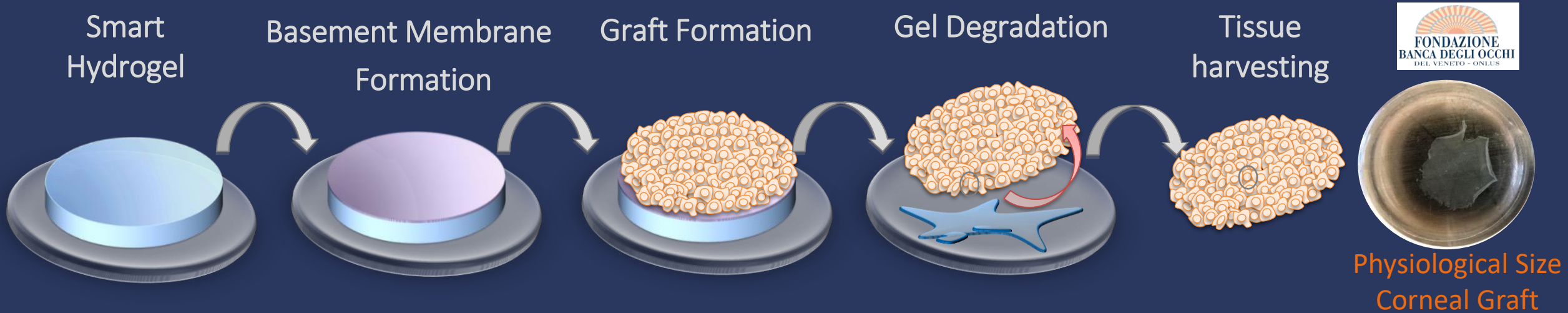
NO trypsin, NO collagenase, NO cell dissociation buffers



Create Donor Like Grafts for Transplantation

Our proprietary biotechnology platform allows any live cells, tissue, or organoids to be cultured and collected from culturing materials without physically or chemically damaging the biological sample.

Application Epithelium and Endothelium Replacement Therapy



Formation



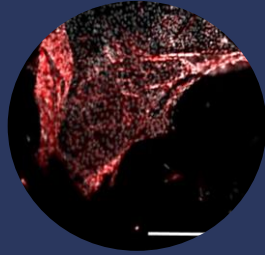
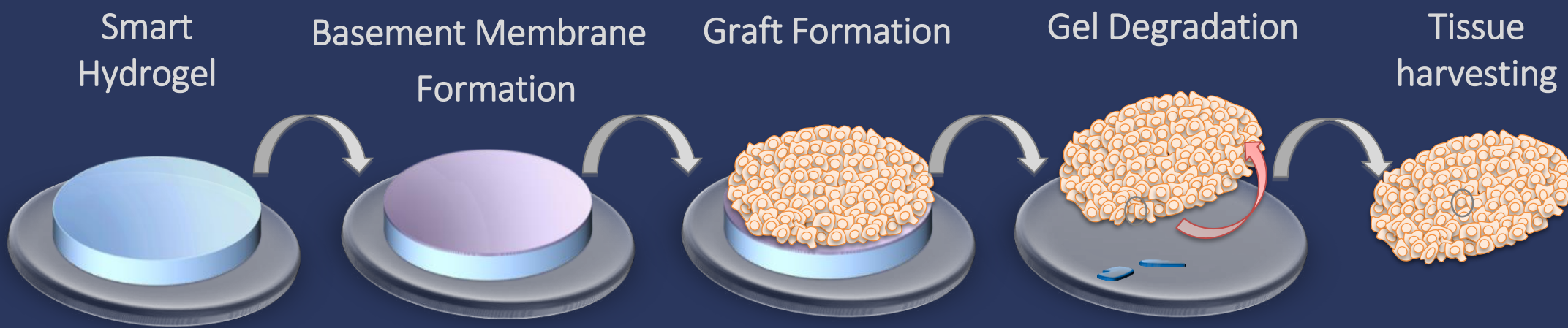
Collection



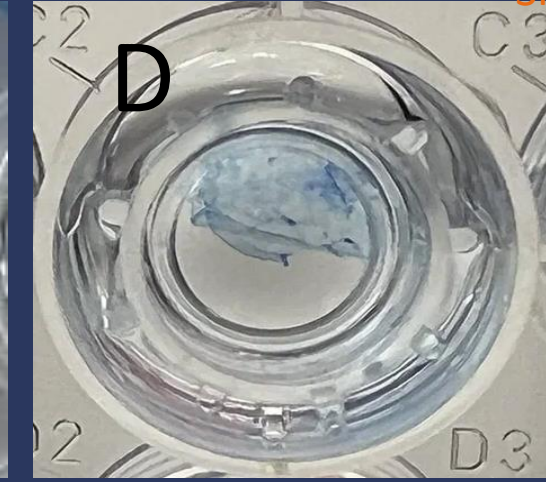
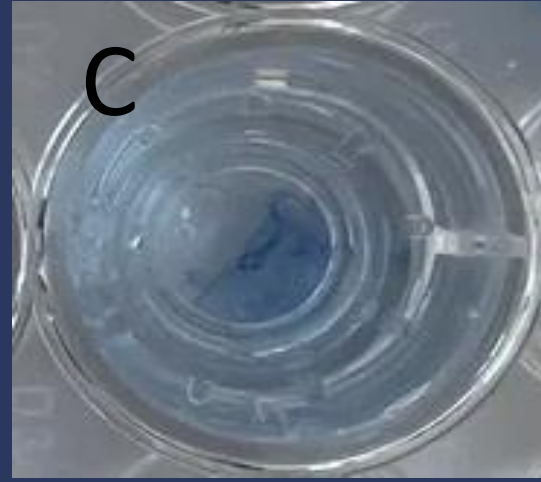
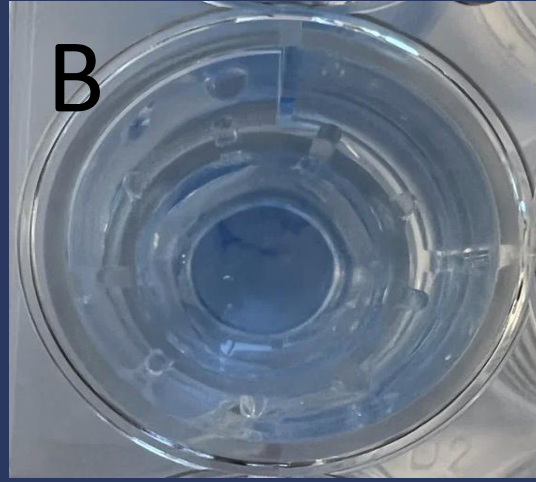
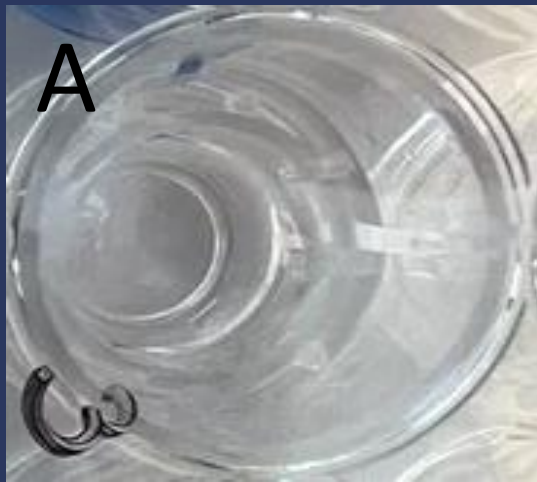
Transplantation



Application RPE and Retina Replacement Therapy



Physiological
Size RPE Graft



Cell culture inserts (Nunc™ 8 microns) with cleavable coating and preformed basement membrane suitable for long time cell culture The basement membrane is stable and could withstand mechanical manipulation during injection

See the World through new Eyes

