Supplementary Materials and Methods

Primate housing and immunosuppression

Nonhuman Primates (*Macaca fascicularis*) were obtained from Noveprim-Camarney or Cynologics-Silabe and were aged 5-6 years. 6 animals were transplanted in one eye with the hESC-RPE sheet and followed up for 7 weeks. Primates were housed in pairs or in groups in cages according to the European guidelines, with adjacent cages including tactile and visual contact devices to maintain a visual, sound and tactile community. They were daily observed and trained with habituation and positive reinforcement with the experimenters through manipulation and rewards to limit stress impact on physiological parameters during the experimentation. Diet was supplemented with fresh vegetables and fruits. Animals were immunosuppressed by a combination of cyclosporine (Neoral vials, Novartis: dose of 5-10 mg/kg/day) and mycophenolate mofetyl (Cell Cept*: 20 mg/kg/day). Treatment began for the week (cyclosporine) and the day (Mycophenolate mofetyl) prior to the hESC-RPE sheet transplantation and until euthanasia. Cyclosporine level was dosed twice a week in blood and the administration was adapted every week (target level in blood stream between 250 and 400 ng/mL). Cyclosporine was stopped the last week due to body weight loss indicating a low tolerance to the treatment.

Enucleated pig eyes

Enucleated eyes were obtained from a local slaughterhouse and the anterior segment was removed for the surgical implantation of the hESC-RPE sheet. Eyes were attached to a fixed support and the open-sky implantation was realized. The graft was colored with an ophthalmic blue dye (Membrane Blue Dual, DORC) for an easier visualization. Three hESC-RPE sheets implantations were performed in 2 eyes.

Transplantation procedure in rats

Nude rats were anesthetized with intraperitoneal injection of 100mg/kg of ketamine and 10mg/kg of xylazine. Two drops of a local anesthetic (oxybuprocain, Thea) and tropicamide (for mydriasis,

Mydriaticum 0.5%; Thea) were applied to the eye to be transplanted. A subretinal detachment through the injection of air after a scleral incision was induced under an operating microscope (Leica). The intraocular pressure was reduced by opening a hole into the cornea. The head of the injector (Viscoject, Medicel) was then introduced into the first incision in the sclera to deliver the hESC-RPE sheet, which was prepared with MD1 and MD2 (graft size of 3.49mm^2). The graft was delivered into the subretinal space and the incision was then carefully closed using a 10-0 suture (Peters Surgical). Control operated animals received the same protocol with an injection of a saline solution (3μ L). For the cell suspension group, hESC-RPE cells (3μ L; 150 000 cells in saline solution) were injected in the subretinal space using a Hamilton syringe just after the formation of retinal detachment. After the surgery, a vitamin A ointment (Allergan) was placed on each eye. Animals were kept on a recovery cage until awakening.

VEGF ELISA assay

hESC-RPE cells were grown on amniotic membranes for at least four weeks and embedded in gelatin using the medical device MD1. After the defined stability period at 4°C (24h, 48h or 72h), hESC-RPE sheets were removed from MD1 and placed for one week in culture (with culture medium and within an incubator at 37°C and 5% CO₂). VEGF measurements were done in triplicate using the human VEGF Quantikine ELISA kit (R&D System) according to manufacturer's instruction.

Viability and cell density evaluations

hESC-RPE sheets were grown on amniotic membranes for four weeks and embedded in gelatin using the medical device MD1. After the defined stability period at 4°C (24h, 48h or 72h), sheets were washed with a culture medium at 37°C, placed into an incubator overnight (37°C, 5% CO2) and washed again using a warmed culture medium. NucBlue live (Hoescht 33342) and Propidium iodide (both from Thermo Fisher Scientific) were used according to manufacturer's instruction to stain cells. Images were taken using a fluorescence microscope (Zeiss) and cells were counted using ImageJ software.

Electroretinography

Full field ERGs for photopic conditions (RETImap; Roland Consult) were realized on anesthetized monkeys two weeks before patch administration and at week 6 post-surgery. Amplitudes and implicit time of the photopic ERG for a- and b-waves were measured with the associated software. A multifocal ERG (mfERG) to evaluate local retinal function was also performed. 37 hexagons (30°) were measured per eye. Mean retinal responses of the 3 hexagons before and six weeks after surgery in the transplanted area were compared. In addition, mean retinal responses of the non-transplanted and non-detached retinal area before and six weeks after surgery were also compared. One animal was excluded from the analysis due to vitreous opacification. Another animal was excluded from mfERG analysis as the area of the mfERG recorded at the baseline was different from the transplanted area.

Inflammation monitoring of the eye

Eye evaluation was assessed on anaesthetized monkeys. Pupils were dilated (0.5 % tropicamide eye drops, Mydriaticum). Slit lamp biomicroscopy (SL-130; Zeiss), retinography (Smartscope Pro M5, Module EY4; OPTOMED) and indirect ophthalmoscopy (Indirect Binocular Ophthalmoscope; Heine) were conducted before the transplantation (baseline) and on week 1, 2, 5 and 7. Scanning Laser Ophthalmoscopy (SLO) and Optical Coherence Tomography (OCT; Spectralis OCT/SLO combined system) examinations were performed before patch administration to obtain the baseline, and then on week 2, 5 and 7. Slit lamp Biomicroscopy was used to obtain a stereoscopic magnified view of the eye structures (the anterior and posterior segments of the eye: the eyelid, sclera, conjunctiva, cornea, anterior chamber, iris, lens and vitreous). Both eyes were analyzed. Indirect ophthalmoscopy was performed using indirect binocular ophthalmoscope to monitor inflammation degree and to examine the eye fundus. The level of inflammation according to the international nomenclatures were evaluated based on the Standardization of Uveitis Nomenclature (SUN) working group for

grading inflammation in the anterior part of the eye (1) to score anterior chamber cells, flare, and the level of vitreous haze and the Nussenblatt's grading system based on vitreous haze evaluation (2).

Histology and Immunostaining

Monkeys were sacrificed with a barbiturate (Dolethal, 180mg/kg) followed by an intracardiac perfusion of 4% paraformaldehyde into the right ventricle. Animals were evaluated by an anatomopathologist before the collection of the operated eye. Lens and vitreous were removed under a binocular microscope and incubated in PBS with 10% sucrose for at least one day. Then eyes were placed in a solution of PBS with 30% sucrose. Samples were embedded in PBS with 10% sucrose and 7.5% of gelatin and frozen at -50°C in isopentane. Serial cryosections of 10-15 µm were collected around the grafted areas and immunofluorescence stainings were performed with an overnight incubation of primary antibodies (see **supplementary table S5**) in a blocking solution composed of PBS with secondary antibodies in the blocking solution. After this last incubation, slides were counterstained with 1:1000 diamidino-phenyl-indole (DAPI) and washed with PBS. Slides were mounted with Fluoromount G (Southern Biotech). Images were acquired with either an inverted confocal microscope (Zeiss) or an inverted phase-contrast fluorescence microscope (Zeiss).

Supplementary Figure S1: Quality controls performed on the hESC-RPE sheet to release a batch

suitable for human transplantation

Parameter	Test Method	Acceptance Criteria (AC) or For Information Only (FIO)
Results ava	ilable prior adn	ninistration
Cell morphology		some pavimented areas AC > 90%
Cell density	Optical Microscopy	cell confluence AC > 90%
Cell pigmentation		some pigmented areas FIO
Microbial contamination		AC No microbial contamination
Cell Density	Live/Dead assay	Viable cell count AC \geq 4800 cell/mm ²
Viability	(propidium iodide and Hoescht)	Viability AC ≥ 85%
Endotoxins	EP 2.6.14	AC < 2 EU / mL
Results ava	ailable post adm	inistration
Identity, phenotypic analysis: RPE65	RT-qPCR	<i>RPE65</i> AC (>10)
Identity, phenotypic analysis: CRALBP	(ratio to hESC) EP 2 6 21	CRALBP AC (>10)
Purity, phenotypic analysis: NANOG	21 2.0.21	<i>NANOG</i> AC (< 10 ⁻¹)
Potency: VEGF secretion	Elisa assay EP 2.7.1	AC ≥ 500 pg/mL
Mycoplasma	EP 2.6.7	AC Negative
Sterility	EP 2.6.1	AC Negative



Supplementary Figure S2: Description of the sequential steps for the use of MD1

A. Picture showing the different components of the medical device 1 (MD1). **B.** Description of the different steps for the preparation of the hESC-RPE sheet using the MD1. The step 1 corresponds to the placement of the culture insert containing the hESC-RPE sheet into the central body. The step 2 corresponds to the positioning of the cap 1 on top of the central body and the addition of the two gelatin solutions on both sides (the gelatin is colored in blue to facilitate its visualization). The step 3 corresponds to the replacement of the cap 1 with the cap 2 used for the conservation and transport of the hESC-RPE sheet. Scale bar = 1cm.



Supplementary figure S3: Description of the sequential steps for the use of MD2

A. Picture showing the different components of the medical device 2 (MD2). **B.** Description of the different steps for the size adjustment of the hESC-RPE sheet using the MD2. The step 1 corresponds to the replacement of the cap 2 with the cap 3 used to guide the punch. The step 2 corresponds to

the positioning of the punch inside the cap 3 and to the cutting of the hESC-RPE sheet. C. The picture shown the hESC-RPE sheet that was cut with the MD2. Scale bar = 1cm.



Supplementary Figure S4: Inflammation grade of the eye anterior segment: level of vitreous haze. Graph showing the level of vitreous haze according to the Nussenblatt's grading system before surgery and until week 7. Each primate is represented independently.



Supplementary Figure S5: Cyclosporine blood level during the course of the experiment.

The graph represents the level (ng/ml) of cyclosporine in the blood starting from 2 weeks before the surgery to the end of the follow up (week 7). Each monkey is represented independently. The yellow box delimitates the targeted range of cyclosporine. When values were out of this range (250 to 400 ng/ml), the delivered cyclosporine dose was adjusted.

Supplementary Movie S1:

Movie showing a 3-D representation of the medical device MD1 in a transversal view. The body is colored in yellow and the CAP1 in grey.

Supplementary Movie S2:

Movie showing a 3-D representation of the medical device MD1 combined to the MD2 in a transversal view. The body is colored in yellow, the CAP3 in grey and the punch in green.

Supplementary Movie S3:

Movie illustrating the preparation of the hESC-RPE sheet just before implantation. The hESC-RPE sheet already cut with the MD1, was colored with a blue dye. The graft is collected and loaded in the lens injector for its folding. Then the patch in transferred to a longer beveled cannula. The cannula is kept at 4°C until transplantation.

Supplementary Movie S4:

Movie showing the different major steps of the surgery in the nonhuman primate eye. Briefly, a 3port pars plana vitrectomy with cold vitreal perfusion is realized. Then a subretinal bleb is obtained by an injection of BSS. A scleral incision of 2mm is made to introduce the injection cannula. The retinal area where the retinotomy will be performed is coagulated and a 2mm incision is made. The graft is delivered through the retinotomy and the scleral incision is closed with a surgical suture. The hESC-RPE sheet is then positioned under the fovea.

Supplementary Table S1: Detection of human cells (Alu sequences) in Nude rats treated with an

injection of saline solution at weeks 2 and 3 months

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Supplementary Table S2: Detection of human cells (Alu sequences) in Nude rats treated with an

injection of hESC-RPE sheets at weeks 2 and 3 and 6 months

Supplementary Table S3: Detection of human cells (Alu sequences) in Nude rats treated with an injection of hESC-RPE cell suspensions at weeks 2 and 3 months

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Supplementary Table S4: Tissue and fluid samples (and abbreviations) used for biodistribution analysis in Nude rats

			Day 15				Week 13		Week 26		
System		List of tissues	Control	ISTEM01	RPE	Control	ISTEM01	RPE	Control	ISTEM01	RPE
	1	Brain (BR)	12	12	12	12	12	11	-	12	-
Nervous and	2	Eye (treated) (EYE+)	12	12	12	12	12	11	-	12	-
visual system	3	Eye (contralateral) (EYE-)	12	12	12	12	12	11	-	12	-
	4	Optic nerves (ON)	12	12	12	12	12	11	-	12	-
Cardio- respiratory	5	Heart (HE)	12	12	12	12	12	11	-	12	-
system	6	Lung (LU)	12	12	12	12	12	11	-	12	-
Digestive system	7	Liver (LI)	12	12	12	12	12	11	-	12	-
Haemo-	8	Spleen (SP)	12	12	12	12	12	11	-	12	-
lymphoid system	9	Lymph nodes (LN)	12	12	12	12	12	11	-	12	-
	10	Bone marrow (FE)	12	12	12	12	12	11	-	12	
Urogenital	11	Kidney left or right (KI)	12	12	12	12	12	11	-	12	-
system	12	Ovary left or right (OV)	6	6	6	6	6	6	-	6	-
	13	Testis left or right (TE)	6	6	6	6	6	5	-	6	-
		Total	144	144	144	144	144	132		144	

	Sacrifice Day 15			Sacri	ifice Week	13	Sacrifice Week 26		
Day of collection	Day 3 and Day 15			Day 3	and Week	: 13	Day 3 and Week 26		
List of fluids	Control	ISTEM01	RPE	Control	ISTEM01	RPE	Control	ISTEM01	RPE
Whole blood (BL)	24	24	24	24	24	23	-	24	-
Tears from the treated eye (EYE+)	24	24	24	24	24	23	-	24	-
Tears from the contralateral eye (EYE-)	24	24	24	24	24	23	-	24	-
Total	72	72	72	72	72	69		72	

Supplementary Table S5: Primary antibodies list.

Name of targeted	Identified cells	Primary Antibody			
antigen		Reference	Provider	Species	
STEM121	Specific to human cells	Y40410	Clontech	mouse	
Recoverin	Photoreceptors	AB5585	Millipore	rabbit	
MERTK	RPE cells	ad52968	Abcam	rabbit	
Collagen IV	Human amniotic membrane	MAB3326	Millipore	mouse	
Opsin Blue	Blue cones	AB5407	Millipore	rabbit	
Red/Green Opsin	Red/Green cones	AB5405	Millipore	rabbit	
Rhodopsin	Rods	4D2	Millipore	mouse	

Complete statistical analysis

Figure 2B (cell density)

ANOVA F(4,19)=5.408; **p=0.0044

Number of replicates: t0h before gelatine =5 ; t0h after gelatine =3; t24h =5; t48h =7 ; t72h =4.

Tukey's multiple comparisons test	Mean Diff,	95% CI of diff,	Significant ?	Summary
t0 avt gel vs. t0 aprés	289,8	-1235 to	No	ns
gel		1814		
t0 avt gel vs. t24h	437,4	-882,7 to	No	ns
C		1757		
t0 avt gel vs. t48h	1111	-110,8 to	No	ns
		2334		
t0 avt gel vs. t72h	1931	531.3 to	Yes	**
		3332		
t0 aprés gel vs. t24h	147.6	-1377 to	No	ns
	,	1672		
t0 aprés gel vs. t48h	821.6	-618,8 to	No	ns
1 0	,	2262		
t0 aprés gel vs. t72h	1642	47.51 to	Yes	*
1 0		3236		
t24h vs. t48h	674	-548,2 to	No	ns
		1896		
t24h vs. t72h	1494	93.92 to	Yes	*
		2894		
t48h vs. t72h	820,1	-488,2 to	No	ns
	,	2128		

Figure 2C (cell viability)

ANOVA F(4,19)=1.662; p=0.2002 ; Non-significant. Number of replicates: t0h before gelatine =5 ; t0h after gelatine =3; t24h =5; t48h =7 ; t72h =4. **ELISA VEGF assay:** Non parametric Mann Whitney test: U=4; p=0.9 ; Non-significant.

Number of replicates: t0h before gelatine =3 ; t72h =3.

Figure 5E

Implicite time a wave Wilcoxon matched-pairs signed rank test: p=0.25 ; Non-significant. Number of pairs : 5

Amplitude time a wave

Wilcoxon matched-pairs signed rank test: p= 0.0625; Non-significant. Number of pairs : 5

Figure 5F

Implicite time b wave

Wilcoxon matched-pairs signed rank test: p=0.5 ; Non-significant.

Number of pairs : 5 Amplitude time b wave

Wilcoxon matched-pairs signed rank test: p= 0.125; Non-significant. Number of pairs : 5

Figure 5G

Implicite time P1

Nonparametric Krukal-Wallis test: H= 5.268 ; p= 0.1508 ; Non-significant. 4 primates per time points.

Amplitude time P1

Nonparametric Krukal-Wallis test: H= 4.919 ; p= 0.1834 ; Non-significant. 4 primates per time points.

Supplemental bibliography

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