

The following are representative references picked out.

■ Pre-clinical study for endometrial infertility; menstrual blood-derived stem cells/ STEM-CELLBANKER

Novel therapeutic strategies for injured endometrium: intrauterine transplantation of menstrual blood-derived cells from infertile patients.

Hosoya S, Yokomizo R, Kishigami H, Fujiki Y, Kaneko E, Amita M, Saito T, Kishi H, Sago H, Okamoto A, Umezawa A.

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<https://stemcellres.biomedcentral.com/articles/10.1186/s13287-023-03524-z>

■ Observational Study/ STEM-CELLBANKER

Intra-articular injection of culture-expanded adipose tissue-derived stem cells for knee osteoarthritis: Assessments with clinical symptoms and quantitative measurements of articular cartilage volume.

Kuwasawa A, Okazaki K, Noda K, Fukushima T, Nihei K.

J Orthop Sci., (2022) Jan 18:S0949-2658(22)00009-4.

<https://www.sciencedirect.com/science/article/abs/pii/S0949265822000094>

■ Pre-clinical study for Limbal stem cell deficiency; corneal epithelial cells/ STEM-CELLBANKER

Long-term survival in non-human primates of stem cell-derived, MHC-unmatched corneal epithelial cell sheets.

Yoshinaga Y, Soma T, Azuma S, Maruyama K, Hashikawa Y, Katayama T, Sasamoto Y, Takayanagi H, Hosen N, Shiina T, Ogasawara K, Hayashi R, Nishida K.

Stem Cell Reports, (2022) Jun 10;S2213-6711(22)00271-5.

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■ Clinical Trial for steroid-resistant acute graft-versus-host disease; umbilical cord-tissue/ STEM-CELLBANKER

Immunological influence of serum-free manufactured umbilical cord-derived mesenchymal stromal cells for steroid-resistant acute graft-versus-host disease.

Nagamura-Inoue T, Kato S, Najima Y, Isobe M, Doki N, Yamamoto H, Uchida N, Takahashi A, Hori A, Nojima M, Ohashi K, Nagamura F, Tojo A.

Int J Hematol., (2022) Jul 30.

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■ Clinical study for Osteoarthritis ; chondrocyte cell from cartilage tissue/ STEM-CELLBANKER

Polydactyly-derived allogeneic chondrocyte cell-sheet transplantation with high tibial osteotomy as regenerative therapy for knee osteoarthritis.

Hamahashi K, Toyoda E, Ishihara M, Mitani G, Takagaki T, Kaneshiro N, Maehara M, Takahashi T,

Okada E, Watanabe A, Nakamura Y, Kato R, Matoba R, Takagi T, Akutsu H, Umezawa A, Kobayashi H, Akamatsu T, Yamato M, Okano T, Watanabe M, Sato M.

NPJ Regen Med., (2022) Dec 16;7(1):71.

<https://www.nature.com/articles/s41536-022-00272-1>

The following are representative references picked out.

■ Pre-clinical study for age-related macular degeneration; hiPSC/ STEM-CELLBANKER

Human iPS cell derived RPE strips for secure delivery of graft cells at a target place with minimal surgical invasion.

Nishida M, Tanaka Y, Tanaka Y, Amaya S, Tanaka N, Uyama H, Masuda T, Onishi A, Sho J, Yokota S, Takahashi M, Mandai M.

Sci Rep., (2021) Nov 2;11(1):21421.

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■ Preclinical efficacy and safety studies/ STEM-CELLBANKER

Preclinical efficacy and safety of a human embryonic stem cell-derived midbrain dopamine progenitor product, MSK-DA01.

Piao J, Zabierowski S, Dubose BN, Hill EJ, Navare M, Claros N, Rosen S, Ramnarine K, Horn C, Fredrickson C, Wong K, Safford B, Kriks S, El Maarouf A, Rutishauser U, Henchcliffe C, Wang Y, Riviere I, Mann S, Bermudez V, Irion S, Studer L, Tomishima M, Tabar V.

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■ Preclinical efficacy and safety studies/ STEM-CELLBANKER

Biphasic Activation of WNT Signaling Facilitates the Derivation of Midbrain Dopamine Neurons from hESCs for Translational Use.

Kim TW, Piao J, Koo SY, Kriks S, Chung SY, Betel D, Socci ND, Choi SJ, Zabierowski S, Dubose BN, Hill EJ, Mosharov EV, Irion S, Tomishima MJ, Tabar V, Studer L.

Cell Stem Cell.(2021) Feb 4;28(2):343-355.e5.

<https://www.sciencedirect.com/science/article/pii/S1934590921000059>

■ Clinical study for B cell acute lymphoblastic leukemia (r/r B-ALL); CAR-T (CART19)/ CELLBANKER 2

Peripheral leukemia burden at time of apheresis negatively affects the clinical efficacy of CART19 in refractory or relapsed B-ALL.

Deng B, Pan J, Liu Z, Liu S, Chen Y, Qu X, Zhang Y, Lin Y, Zhang Y, Yu X, Zhang Z, Niu X, Luan R, Ma M, Li X, Liu T, Wu X, Niu H, Chang AH, Tong C.

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■ Pre-clinical study for Parkinson's disease; iPSC/ STEM-CELLBANKER

Pre-clinical study of induced pluripotent stem cell-derived dopaminergic progenitor cells for Parkinson's disease.

Doi D, Magotani H, Kikuchi T, Ikeda M, Hiramatsu S, Yoshida K, Amano N, Nomura M, Umekage M, Morizane A, Takahashi J.

Nat Commun. 2020 Jul 6;11(1):3369.

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