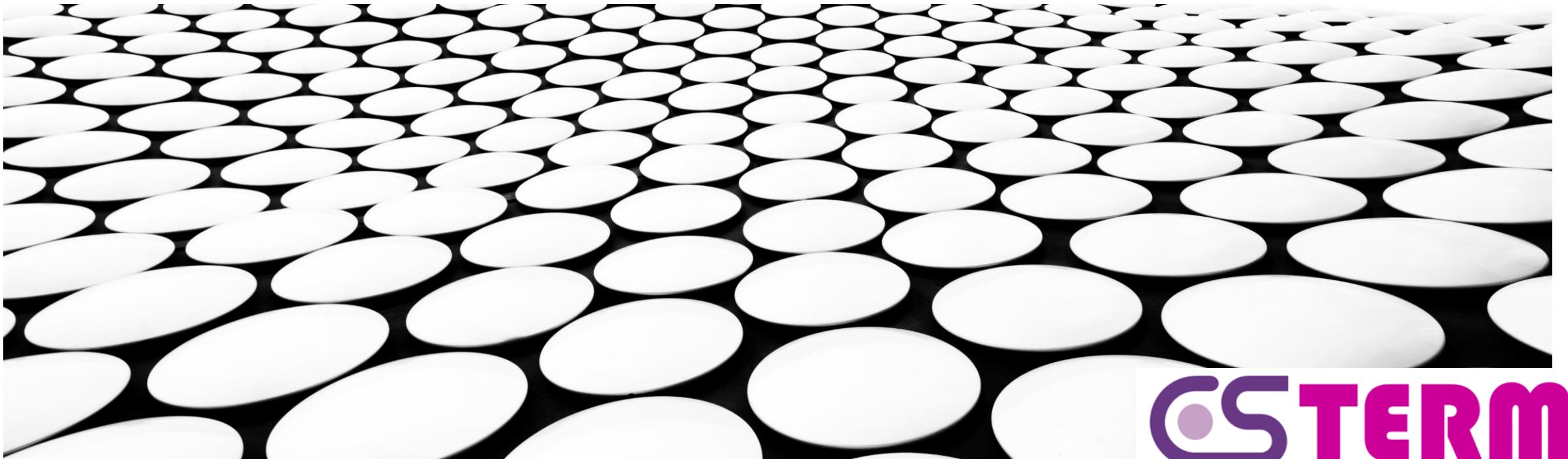


Introduction of Smart Cell Culture by SSCW[®]

SSCW: SMART SURFACE CULTURE WARE



CS TERM

Cell Sheet Tissue Engineering Regenerative Medicine Initiatives, Japan

SSCW ?

SSCW : Smart Surface Culture Ware

**CSTERM is proud to announce
a successful development of SSCW[®],
a highly functional and low-cost thermo-
responsive smart surface culture ware**

Under the collaboration with

Hosokawa Yoko Co., Ltd.

and

**TWINS, Institute of Advanced Biomedical
Engineering and Science, Tokyo Women's
Medical University.**

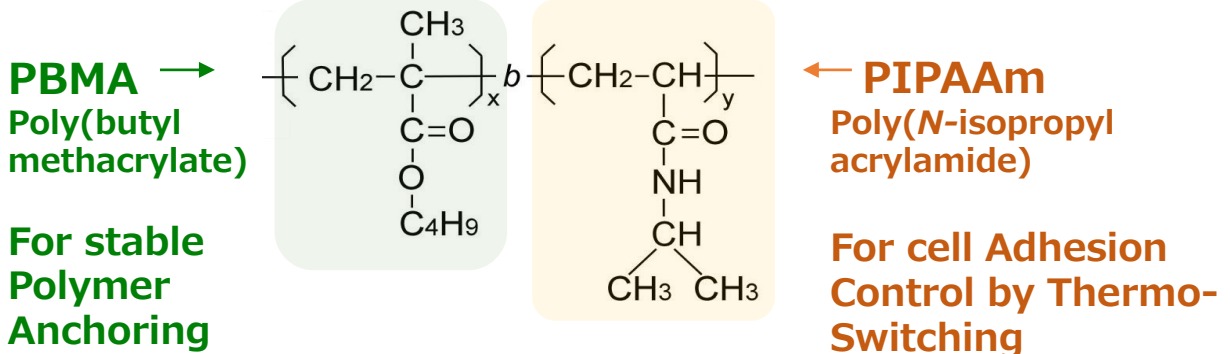
SSCW ?

SSCW : Smart Surface Culture Ware

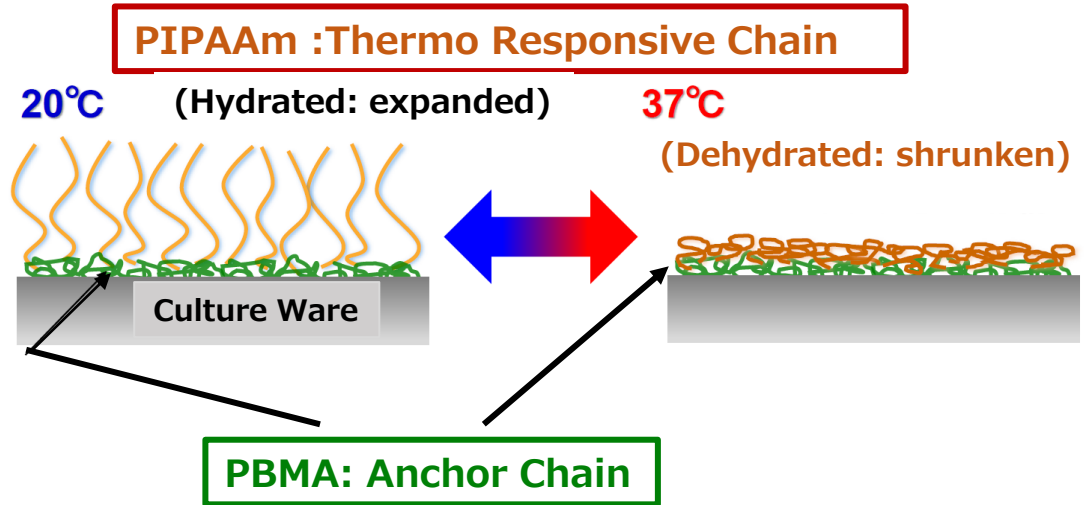
SSCW[®] is developed by innovative polymer nano-coating technologies to culture and harvest various types of cells without any damage, by just switching temperature of the culture wares

Switching surface by nano-level control of polymer coating

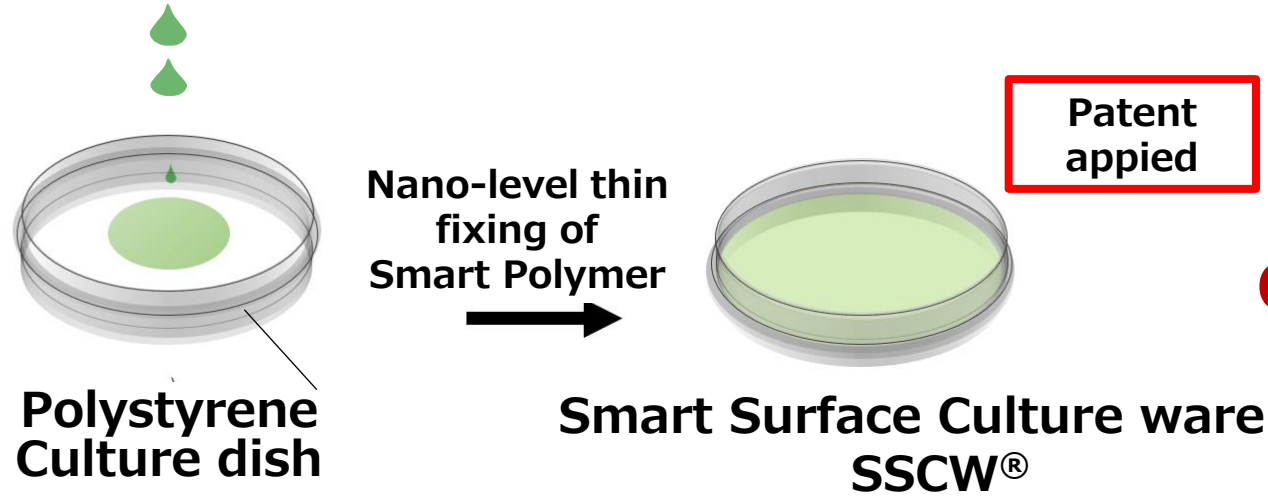
Smart Polymer Designing for SSCW



Smart surface of SSCW[®]



Smart Polymer Solution (no usage of monomer)



CSTERM will offer tailer-made thermo-responsive SSCW[®] to fit to various type of cells

Smart Surface Culture Wares (SSCW[®])



×



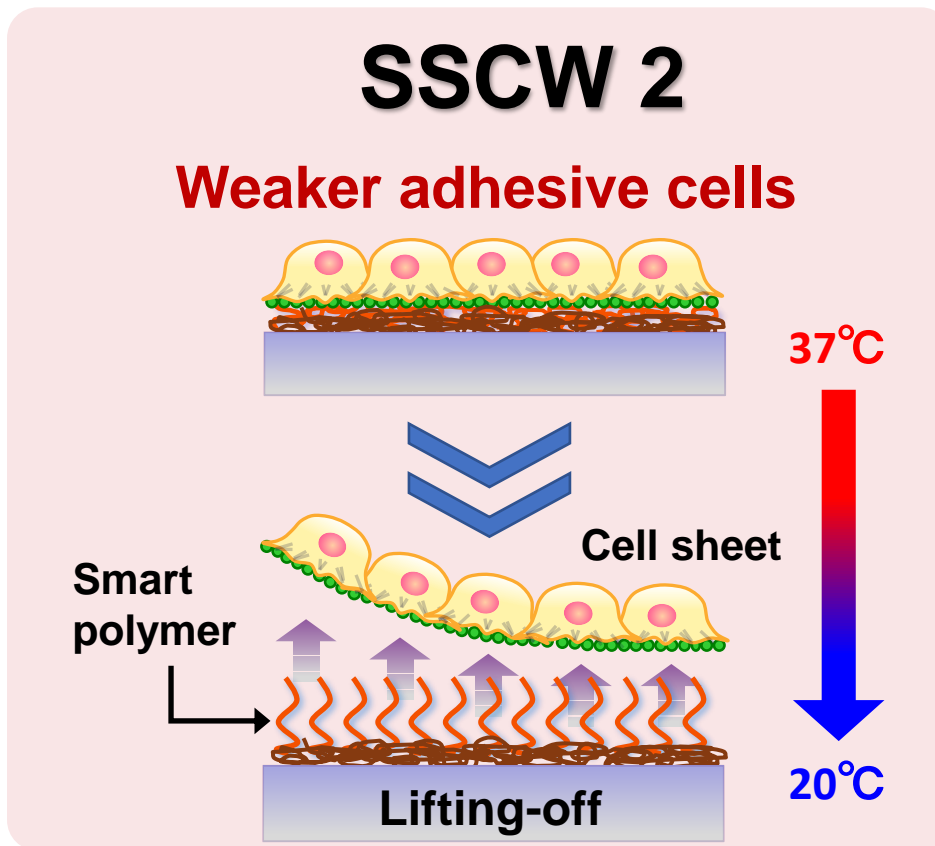
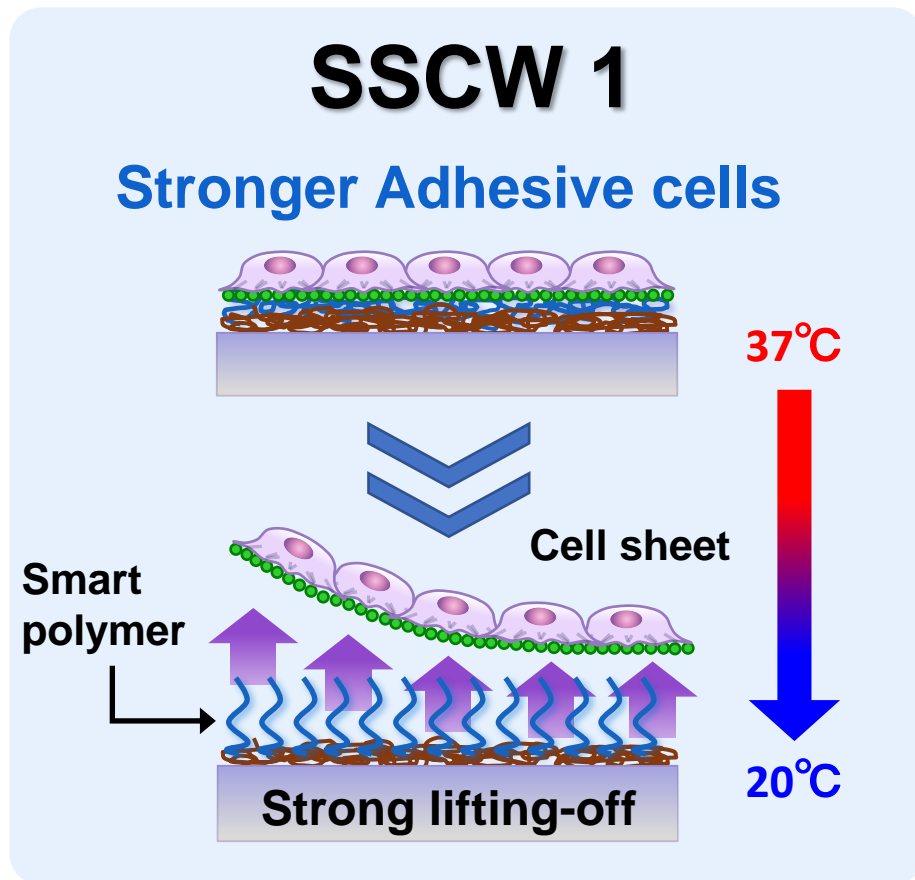
HOSOKAWA YOKO

×



Patents applied
By CSTERM

Basic Patent licensed from Tokyo Women's Medical University



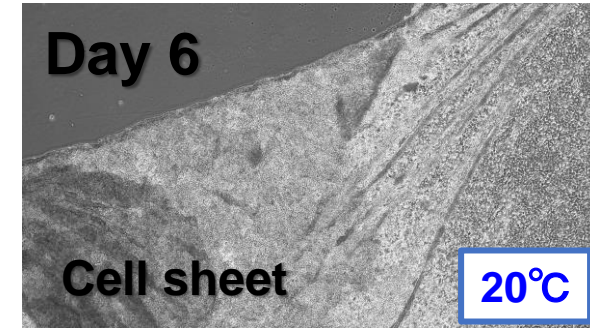
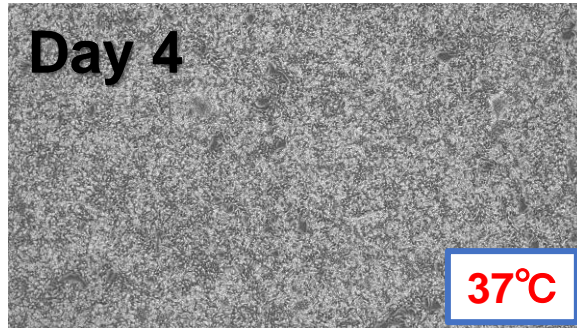
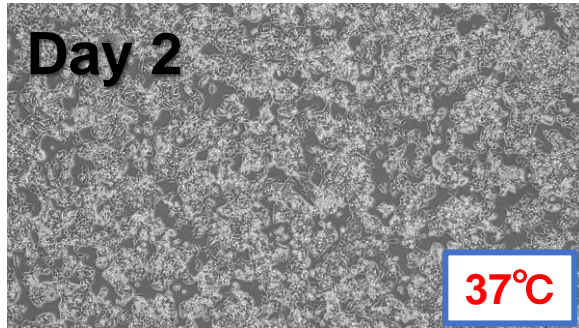
Unique polymer nanocoating technology produces
“on-demand surface customization” for various type of cells.

Cell Culture Application Examples of SSCW

SSCW 1

Human Hepatocellular Carcinoma Cells (HepG2)

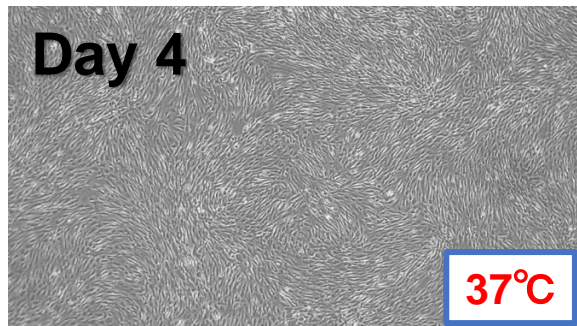
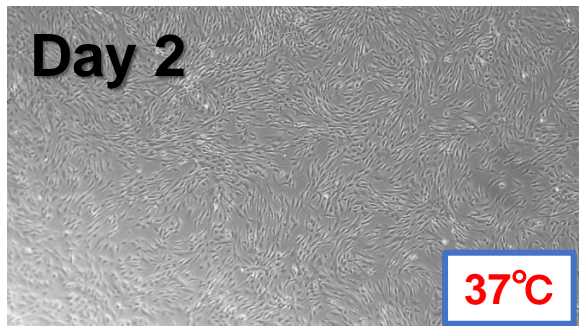
Cells with **strong adhesion and weak cell-cell junctions**



SSCW 2

Human Mesenchymal Stem Cells from Bone Marrow

Cells with **standard adhesion and cell-cell junctions**



SSCW® WILL BE PRESENTED AT 24TH INTERPHEX WEEK TOKYO (TOKYO BIG SIGHT) JULY 13-15, 2022



[About](#) [Exhibit](#) [Visit](#) [Conference](#) [Press](#) [INTERPHEX Global Events](#) [Exhibitor Search](#)

24th INTERPHEX Week Tokyo

July 13 (Wed) - 15 (Fri), 2022 Tokyo Big Sight, Japan

Asia's Leading Pharma & Bio Tech Show!

Latest info & free sample of SSCW®-1, SSCW®-2 & SSCW®-A0 will be available at the exhibition booth of Hosokawa Yoko Co., Ltd. our essential collaboration partner of SSCW.

Please visit Stand 15-20 of West Wing.

 HOSOKAWA YOKO CO., LTD.



HOSOKAWA YOKO CO., LTD.

Amazon Business site for international users

SSCW started to collaborate with JLSS to offer SSCW for international users



SSCW[®]



**Amazon Business site
is under development**

Scientific papers related to SSCW and its polymer technology

- **Realization of Thermo-responsiveness**

N. Yamada, T. Okano *et al.*, *Makromol. Chem. Rapid Commun.*, 1990, 11, 571-576.
T. Okano *et al.*, *J. Biomed. Mater. Res.* 1993, 27, 1243-1251.
T. Okano *et al.*, *Biomaterials*, 1995, 16, 297-303.

- **Nano-coating technology of thermos-responsive polymer**

M. Nakayama, T. Okano *et al.*, *Macromol. Biosci.* 2012, 12, 751-760.
M. Nakayama, T. Okano *et al.*, *J. Mater. Chem. B* 2020, 8, 7812-7821.
M. Nakayama, T. Okano *et al.*, *Macromol. Biosci.* 2021, 21, 2000330.

- **Cell culture by SSCW**

Y. Tobe, *et.al.*, *Microvascular Research* 141 (May 2022)

<https://www.sciencedirect.com/science/article/pii/S0026286222000115>

Perfusable vascular tree like construction in 3D cell-dense tissues using artificial vascular bed

Smart Surface Culture Ware SSCW[®] Samples

SSCW-A0 (Peel Strengthened type)

SSCW-1 (Higher Peeling type)

SSCW-2 (Higher Adhesive type)



SSCW[®] sample offering

SSCW [®] Sample type	Order Code	Box <Content>	Price (tax excl.)
SSCW-1 (Higher Peeling)	S-SSCW1	SSCW [®] - 1 <18 dishes>	¥ 9,000
SSCW-2 (Higher Adhesive)	S-SSCW2	SSCW [®] - 2 <18 dishes>	¥ 9,000
SSCW-A0 (Peel Strengthened)	S-SSCWA0	SSCW [®] - A0 <18 dishes>	¥ 9,000
SSCW-Mix (trial set)	S-SSCWM1	SSCW [®] -1/2/A0 <6 dishes each>	¥ 9,000

:Sterilized packaging by 6 dishes



Please visit our Home Page to submit your order to CSTERM

https://www.csterm.com/SSCW_Intro_ENG.html. In case of domestic shipping, Yu-Packet by Japan Post costs ¥381.