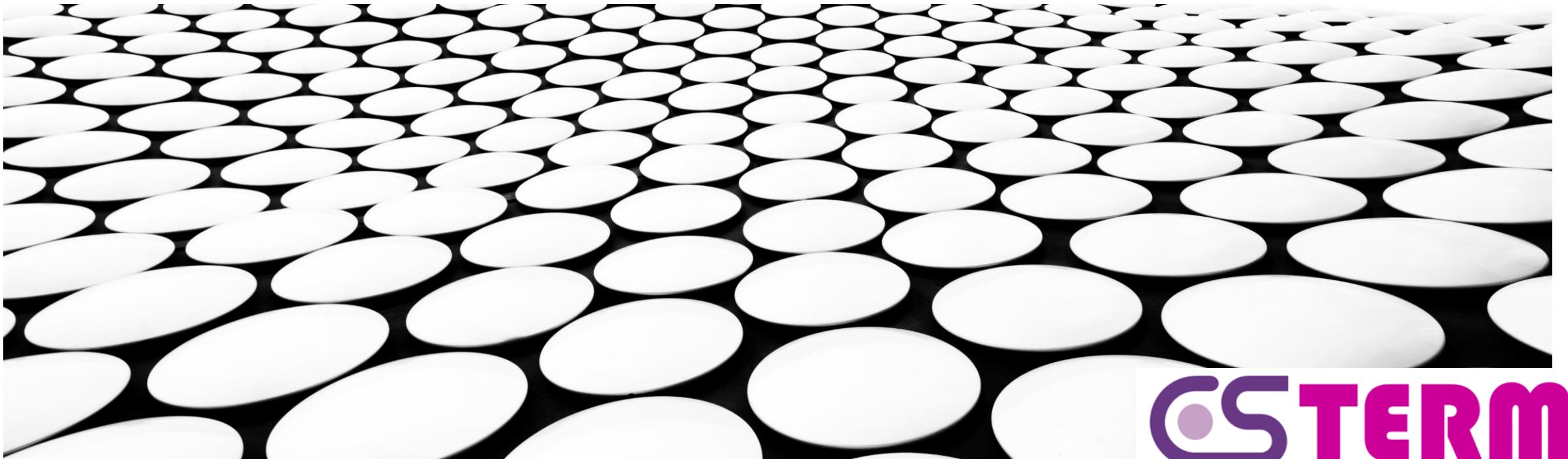


Introduction of Smart Cell Culture by SSCW[®]

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.****

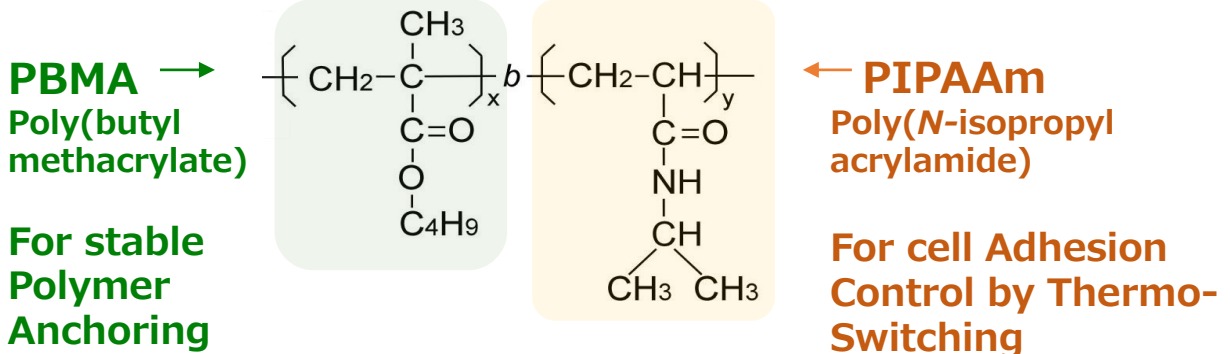
SSCW ?

SSCW : Smart Surface Culture Ware

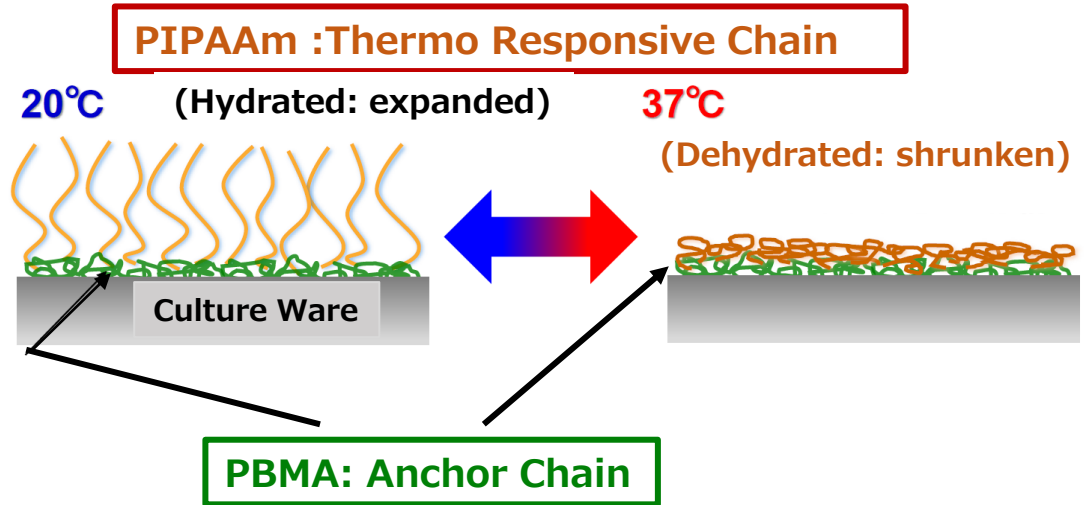
SSCW[®] is developed by innovative polymer nano-coating technologies to culture and harvest various types of cells without any damage, by just switching temperature of the culture wares

Switching surface by nano-level control of polymer coating

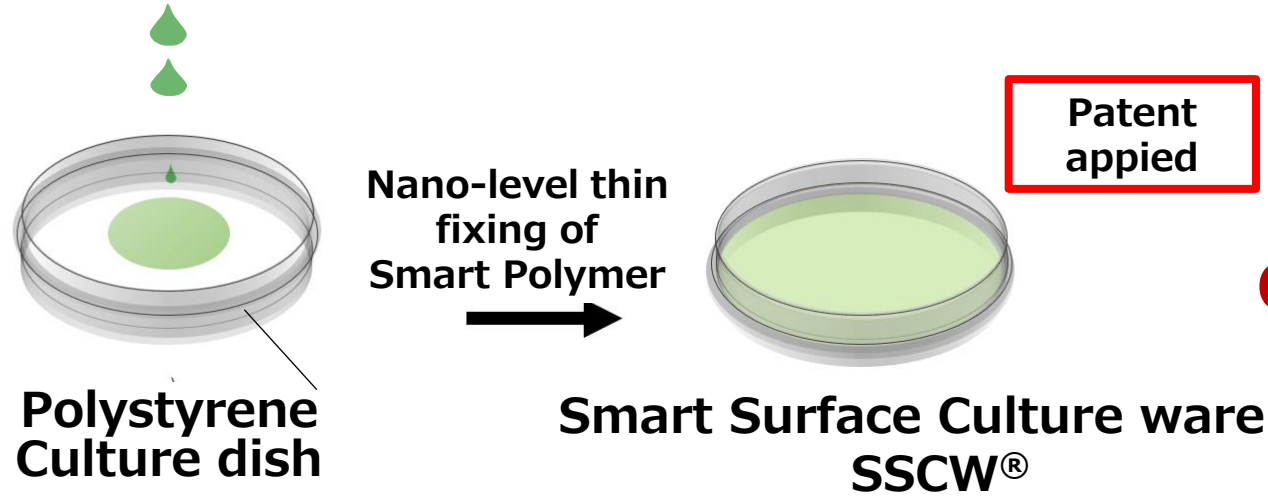
Smart Polymer Designing for SSCW



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[®])



×



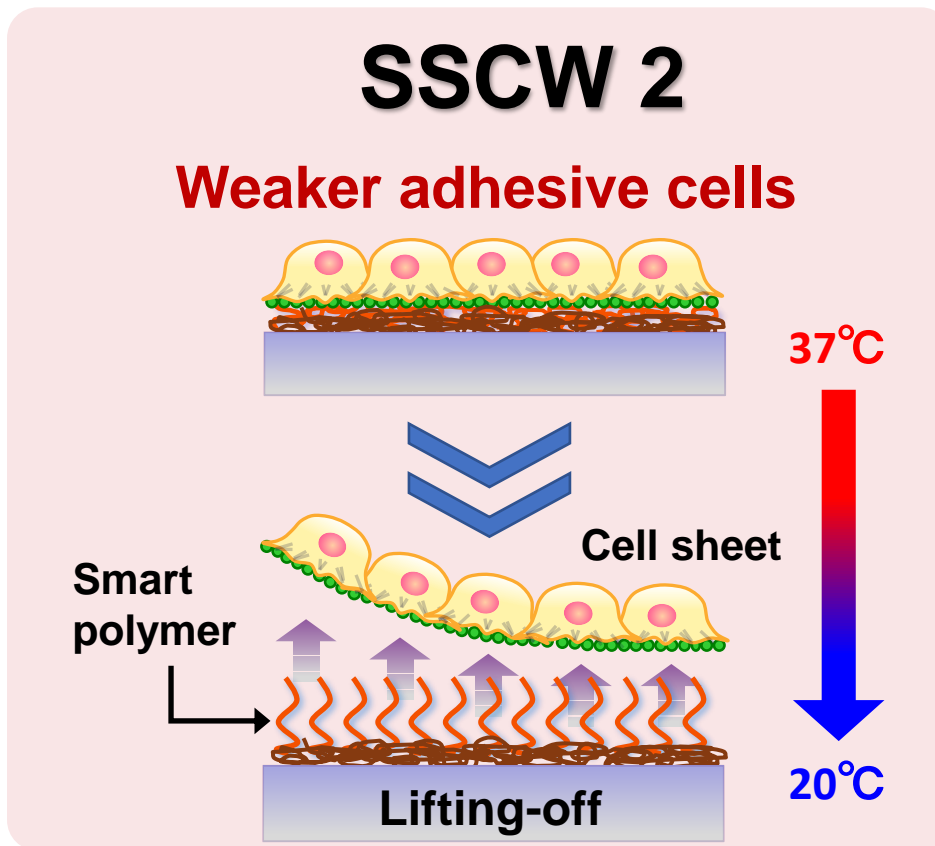
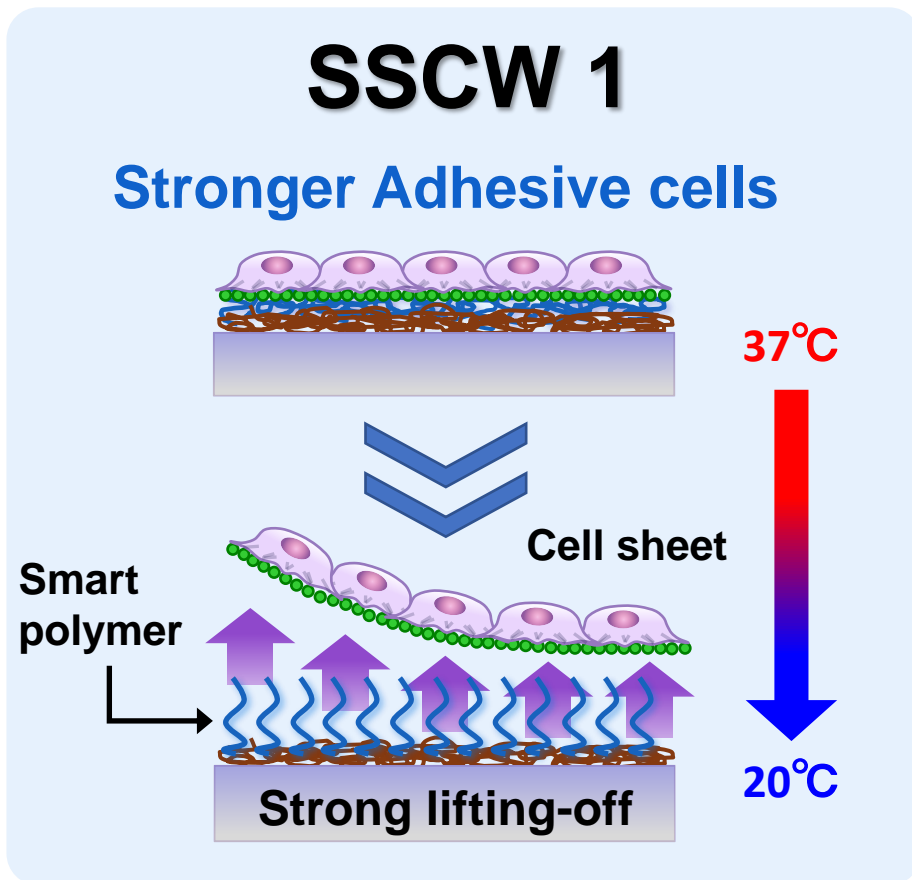
HOSOKAWA YOKO

×



Patents applied
By CSTERM

Basic Patent licensed from Tokyo Women's Medical University



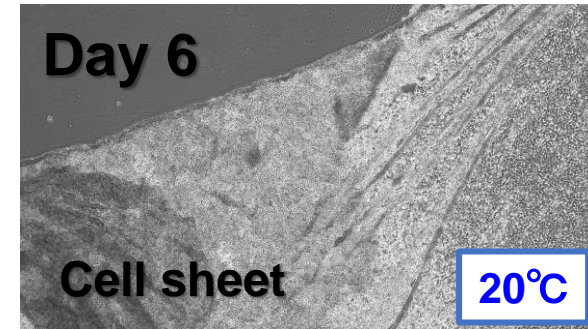
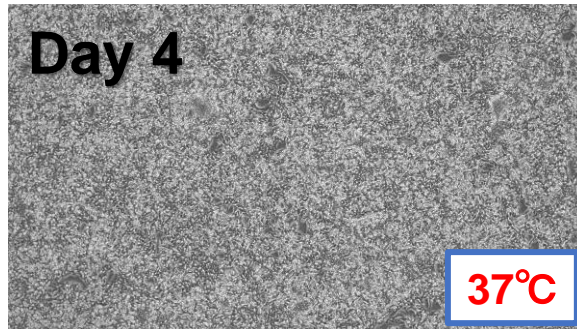
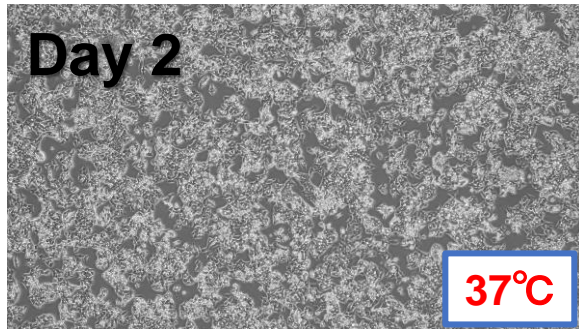
Unique polymer nanocoating technology produces
“on-demand surface customization” for various type of cells.

Cell Culture Application Examples of SSCW

SSCW 1

Human Hepatocellular Carcinoma Cells (HepG2)

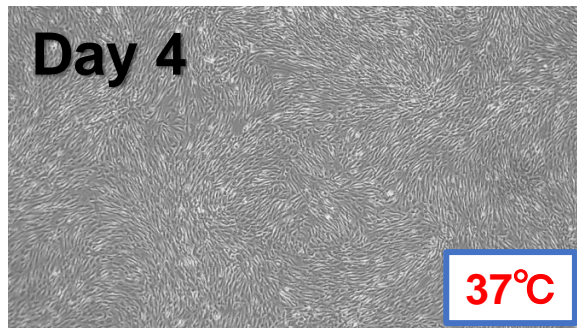
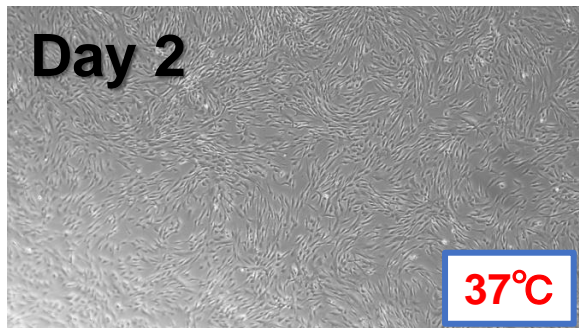
Cells with **strong adhesion and weak cell-cell junctions**



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.

HY HOSOKAWA YOKO CO., LTD.

Plum² organics
banana, zucchini & amaranth
organic baby food

POCARI SWEAT
POCARI SWEAT contains electrolyte salts in a healthy beverage that instantly restores the lost water and electrolytes during your activities. With 100% natural fruit flavors, you'll love it too. It can be used as a healthy beverage.

POLYELECTROLYTE
All-Season
100% Natural

High Functionality,
High Quality
at Low Cost.

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 et. al., Makromol. Chem. Rapid Com., 1990

T. Okano et. al., Biomaterials, 1995

T. Okano et. al., Biomaterials, 1995

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

M. Nakayama et. al., Macromol. Biosci., 2012

M. Nakayama et. al., J. Mater. Chem. B, 2020

M. Nakayama et. al., Macromol. Biosci., 2021

- **Cell culture by SSCW samples**

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.