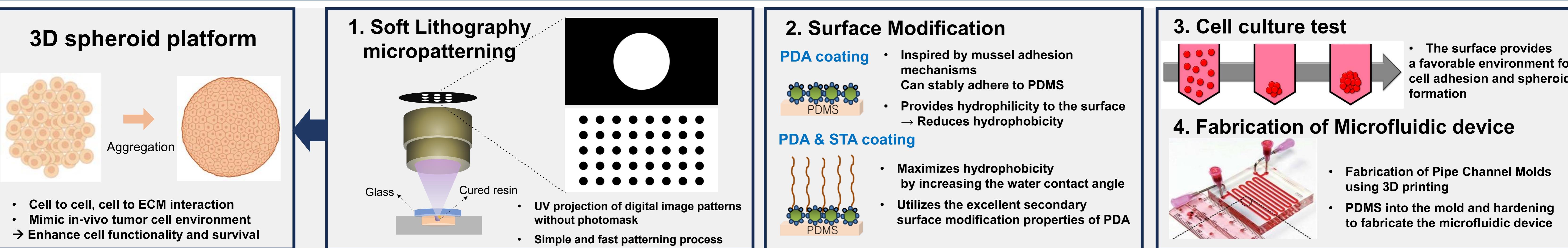


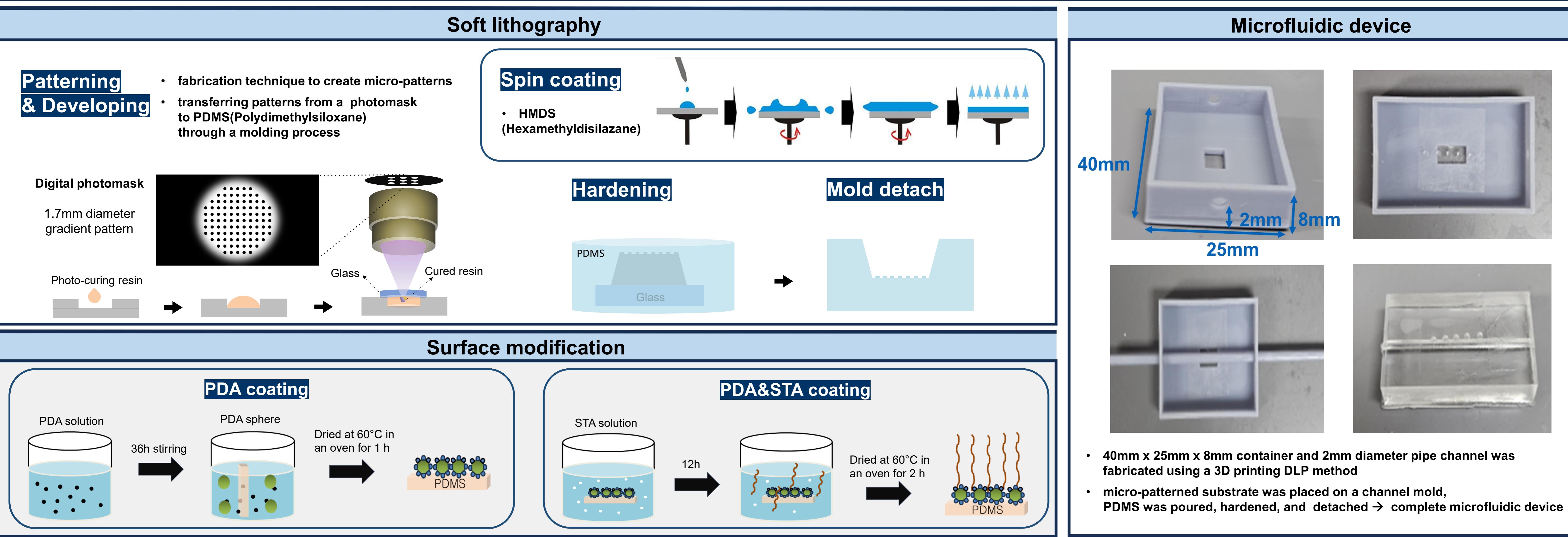
The Development of a High-efficiency spheroid fabrication platform using superhydrophobic surfaces

Suji Kim, Junmo Lee, Hyejune Yang, Taeyeon Kim, Dayoung Yu

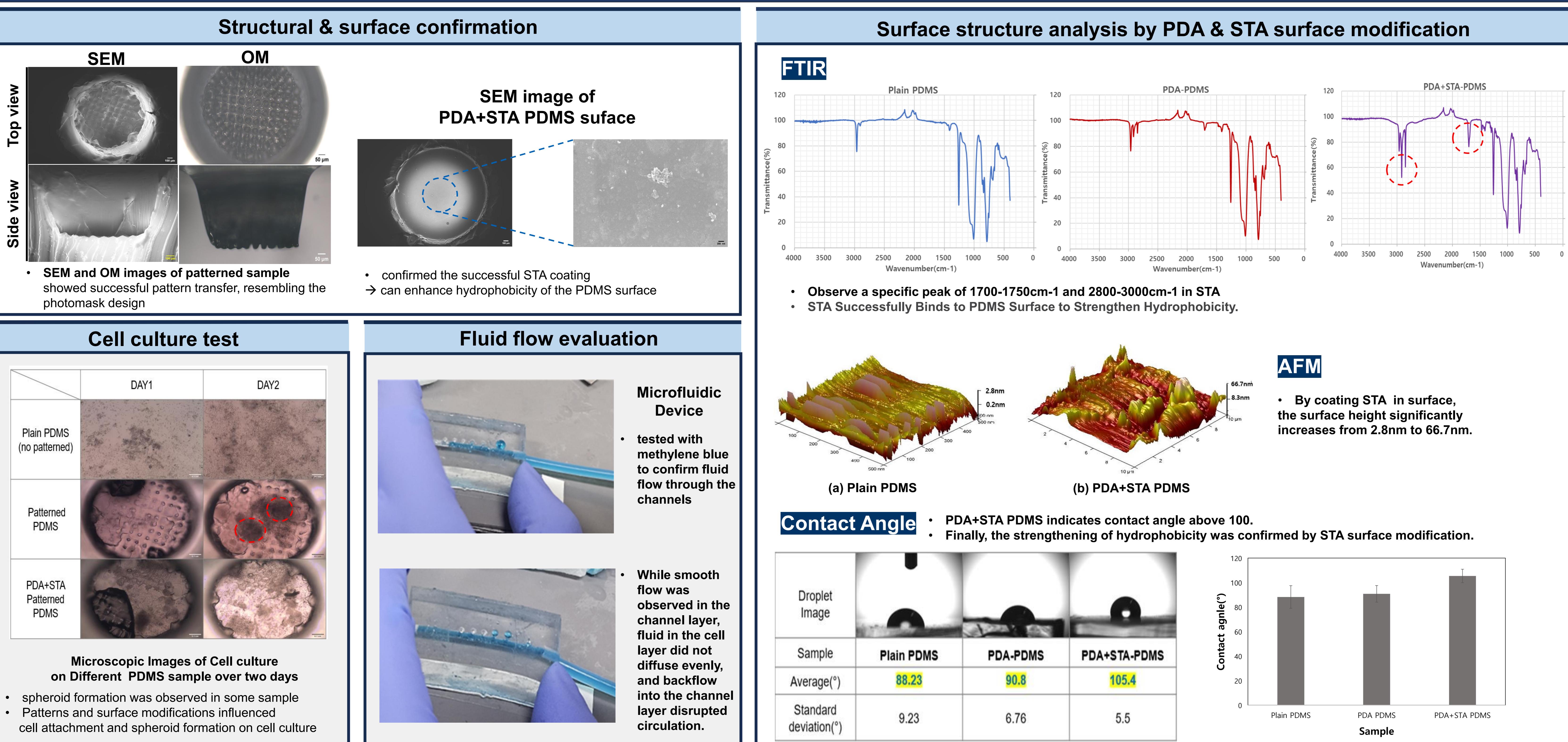
Introduction



Methods



Result



Conclusion

The possibility of creating hydrophobic surfaces through soft lithography and PDA+STA surface modification was confirmed, establishing a foundation for 3D spheroid culture. Additionally, the fluidic performance of the microfluidic device with the hydrophobic surface was evaluated, suggesting potential directions for developing an optimal platform for efficient 3D spheroid culture. These results are expected to provide a significant foundation for applications in biomedical fields such as cancer research, drug screening, and tissue engineering.