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Authors: Taiga Ajiri, Takao Yasui, Masatoshi Maeki, Akihiko Ishida, Hirofumi Tani, Yoshinobu Baba, Manabu Tokeshi



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Optimization of the nanofluidic design for label-free detection of biomolecules using a nanowall array

Taiga Ajiri^a, Takao Yasui^{b,c,d}, Masatoshi Maeki^e, Akihiko Ishida^e, Hirofumi Tani^e, Yoshinobu

Baba^{b,c}, Manabu Tokeshi^{c,e,f,g,*}

^aGraduate School of Chemical Sciences and Engineering, Hokkaido University, Kita 13 Nishi 8, Kita-ku, Sapporo 060-8628, Japan

^bDepartment of Biomolecular Engineering, Graduate School of Engineering, Nagoya University, Furo-cho, Chikusa-ku, Nagoya 464-8603, Japan

^cImPACT Research Center for Advanced Nanobiodevices, Nagoya University, Furo-cho, Chikusa-ku, Nagoya 464-8603, Japan

^dJapan Science and Technology Agency (JST), PRESTO, 4-1-8 Honcho, Kawaguchi, Saitama 332-0012, Japan

^eDivision of Applied Chemistry, Faculty of Engineering, Hokkaido University, Kita 13 Nishi 8, Kita-ku, Sapporo 060-8628, Japan

^fInnovative Research Center for Preventive Medical Engineering, Nagoya University, Furo-cho, Chikusa-ku, Nagoya 464-8601, Japan

^gInstitute of Innovative for Future Society, Nagoya University, Furo-cho, Chikusa-ku, Nagoya 464-8601, Japan

*Corresponding Author: TEL: +81-11-706-6744, Fax: +81-11-706-6745, E-mail address: tokeshi@eng.hokudai.ac.jp (M. Tokeshi)

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