

the packed bed, v_{in} . The experimental results showed an optimal value of the ratio of c_{bin} to v_{in} , for both the maximum attachment amount and the cell recovery. The optimal value does not always agree with that obtained from one-dimensional packed bed.

Key words: [MEOR](#), [Cell recovery](#), [Cell attachment amount](#), [Two-dimensional porous media](#)

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To cite this article:

Yan-Guo Yang, Yuichi Niibori, Chihiro Inoue and Tadashi Chida 2005: A fundamental study of microbial attachment and transport in porous media for the design of MEOR , J. JAPANESE. ASSOC. PETROL. TECHNOL., **70**: 5, 459-468 .

doi:10.3720/japt.70.459

JOI JST.JSTAGE/japt/70.459

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