

CURRICULUM VITAE

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Education

- B.A., 1973 Chemical Engineering, University of Tokyo, Tokyo, Japan.
M.S., 1975 Biochemical Engineering, University of Tokyo, Tokyo, Japan.
Dr., 1978 Biochemical Engineering, Osaka University, Osaka, Japan.

Professional/Research Appointments

- 2015-present Guest Professor, Research Institute for P Atlas, Waseda University
 Emeritus Professor, Osaka University
2003-2015 Professor, Department of Biotechnology, Osaka University, Osaka, Japan
1990-2003 Professor, Department of Molecular Biotechnology, Hiroshima University,
 Hiroshima, Japan
1983-1989 Associate Professor, University of Tokyo, Tokyo, Japan
1986-1987 Research Associate, University of Illinois College of
 Medicine, Chicago, Il., U.S.A.
1985-1986 Visiting Associate Professor, Washington University,
 St. Louis, Mo., U.S.A.
1980-1983 Associate Professor, Shimane University, Shimane, Japan
1978-1980 Assistant Professor, Shimane University, Shimane, Japan

Academic committees and Boards

- Chairman, Division of Biochemical Engineering, The Society of Chemical Engineers, Japan, 2002-2006
- President, Japan Society for Environmental Biotechnology, 2005-2007
- Chairman, Phosphorus Recycling Promotion Council of Japan, 2008-
- Editor, FEMS Microbiology Reviews, 2001-2003
- Editor, Applied Microbiology and Biotechnology, 2000-2002
- Editor-in-Chief of Journal of Bioscience and Bioengineering, 2007-2011

Awards

- Japan Bioindustry Association Award, 2008.
- Japan Society for Environmental Biotechnology Award, 2010.
- Society for Biotechnology, Japan Award, 2013.

Original Papers

1. Aiba, S., Okada, M., Ohtake, H., Sudo, R. and Mori, T.
Simulation of BOD and DO balance in a shallow and polluted river (I) (in Japanese).
J. Jpn. Sewage Works Assoc. 12: No.131, 33-38 (1975).
2. Aiba, S., Okada, M., Ohtake, H., Sudo, R. and Mori, T.
Simulation of BOD and DO balance in a shallow and polluted river (II) (in Japanese).
J. Jpn. Sewage Works Assoc. 12: No.132, 26-37 (1975).
3. Sudo, R., Mori, T., Ohtake, H., Okada, M. and Aiba, S.
Algal growth potential of secondary treated sewage waters (in Japanese).
J. Jpn. Sewage Works Assoc. 12: No.133, 22-30 (1975).
4. Aiba, S., Ohtake, H. and Sudo, R.
Simulation of BOD and DO balance in a shallow and polluted river (III) (in Japanese).
J. Jpn. Sewage Works Assoc. 14: No.155, 47-53 (1977).
5. Aiba, S. and Ohtake, H.
Simulation of PO₄-P balance in a shallow and polluted river.
Water Res. 11: 159-164 (1977).
6. Sudo, R., Ohtake, H., Aiba, S. and Mori, T.
Some ecological observations on the decomposition of periphytic algae and aquatic plants.
Water Res. 12: 179-184 (1978).
7. Ohtake, H., Aiba, S. and Sudo, R.
Growth and detachment of periphyton in an effluent from the secondary treatment plant of waste waters.
Jpn. J. Limnol. 39: 163-169 (1978).
8. Aiba, S., Ohtake, H. and Inoue, T.
Phosphate permeability in cells of *Chlorella ellipsoidea*.
Biotechnol. Lett. 1: 245-250 (1979).
9. Ohtake, H., Date, Y., Kondo, K., Seike, Y., and Nakane, S.
Studies on the brackish water environment of Lake Nakanoumi with special reference to the reclamation and freshening project.
Verh. Internat. Verein. Limnol., 21: 581-586 (1980).
10. Ohtake, H., Kondo, K., Hayashi, N., Oda, K., Kawata, S. and Date, Y.
Phytoplankton studies in the brackish lake Nakanoumi (I).
Archiv für Hydrobiol. 90:309-323 (1980).
11. Ohtake, H., Oda, K., Kondo, K. and Date, Y.
Phytoplankton studies in the brackish lake Nakanoumi (II).
Archiv für Hydrobiol. 90:397-409 (1980).
12. Aiba, S. and Ohtake, H.
Simulation of nutrient balances in a shallow and polluted river: A strategy for environmental control.
Ann. New York Acad. Sci., 369: 219-224 (1981).
13. Ohtake, H., Seike, Y., Takeda, K., Kondo, K. and Date, Y.
A quantitative analysis of phosphorus cycle in the shallow brackish lake Nakanoumi.
Archiv für Hydrobiol. 94: 286-301 (1982).
14. Ohtake, H., Kondo, K., Seike, Y. and Date, Y.
Seasonal and areal features of the lagoonal environment in Lake Nakanoumi, a shallow coastal lagoon in Japan.

- Hydrobiologia** 97: 15-26 (1982).
15. Ohtake, H.
Nakanoumi Land Reclamation and Freshening Project.
Water Sci. Technol., 16: 151-170 (1984).
 16. Ohtake, H., Kato, S. and Date, Y.
The role of tides in removing phosphorus from Lake Nakanoumi, a coastal lagoon in Japan.
Archiv für Hydrobiol. 99: 443-462 (1984).
 17. Ohtake, H., Takahashi, K., Tsuzuki, Y. and Toda, K.
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Environ. Technol. Lett. 5:417-424 (1984).
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Water Res. 19: 1587-1594 (1985).
 19. Toda, K. and Ohtake, H.
Comparative study on performance of biofilm reactors for waste treatment.
J. Gen. Appl. Microbiol. 31: 177-186 (1985).
 20. Toda, K., Ohtake, H. and Asakura, T.
Ethanol production in horizontal bioreactor.
Appl. Microbiol. Biotechnol. 24: 97-101 (1986).
 21. Toda, K., Asakura, T. and Ohtake, H.
Inhibitory effect of ethanol on ethanol fermentation.
J. Gen. Appl. Microbiol. 33: 421-428 (1987).
 22. Ohtake, H., Cervantes, C. and Silver, S.
Decreased chromate uptake in *Pseudomonas fluorescens* carrying a chromate resistance plasmid.
J. Bacteriol. 169: 3853-3856 (1987).
 23. Mori, T., Ohtake, H., Kondo, K., Seike, Y. and Date, Y.
Significance of a halocline to nutrient cycles in shallow brackish Lake Nakanoumi, Japan.
Hydrobiologia 146: 181-186 (1987).
 24. Wang, P., Ohtake, H. and Toda, K.
Stability of plasmid-bearing microorganisms in batch and continuous cultures.
J. Ferment. Technol. 66: 63-70 (1988).
 25. Ye, Q., Ohtake, H. and Toda, K.
Phosphorus removal by pure and mixed cultures of microorganisms.
J. Ferment. Technol. 66: 207-212 (1988).
 26. Cervantes, C. and Ohtake, H.
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FEMS Microbiol. Lett. 56:173-176 (1988).
 27. Ohtake, H., Wang, P. and Toda, K.
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Environ. Sci. 1: 39-46 (1988).
 28. Toda, K., Park, Y., Asakura, T., Chen, C. and Ohtake, H.
High-rate acetic acid production in shallow flow reactor.

- Appl. Microbiol. Biotechnol.** 30: 559-563 (1989).
29. Hiramoto, M., Ohtake, H. and Toda, K.
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J. Ferment. Bioeng. 68: 68-70 (1989).
30. Ohtake, H., Suemori, A., Wang, P. and Toda, K.
A stochastic approach to the kinetics of conjugative transmission of bacterial plasmids.
J. Chem. Eng. Japan. 22: 606-611 (1989).
31. Komori, K., Wang, P., Toda, K. and Ohtake, H.
Factors affecting chromate reduction in *Enterobacter cloacae*.
Appl. Microbiol. Biotechnol. 31: 567-570 (1989).
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Effects of dissolved oxygen and acetic acid concentrations on acetic acid production in continuous culture of *Acetobacter aceti*.
J. Ferment. Bioeng. 68: 96-101 (1989).
33. Wang, P., Ohtake, H. and Toda, K.
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J. Jpn. Soc. Microb.Ecol. 4: 67-75 (1989).
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J. Ferment. Bioeng. 68: 315-319 (1989).
35. Park, K., Ohtake, H., Toda, K., Fukaya, M., Okuma, H. and Kawamura, Y.
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Biotechnol. Bioeng. 33: 918-923 (1989).
36. Wang, P., Mori, T., Komori, K., Sasatsu, M., Toda, K. and Ohtake, H.
Isolation and characterization of an *Enterobacter cloacae* strain that reduces hexavalent chromium under anaerobic conditions.
Appl. Environ. Microbiol. 55: 1665-1669 (1989).
37. Komori, K., Toda, K. and Ohtake, H.
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J. Ferment. Bioeng. 69: 67-69 (1990).
38. Shigeta, J., Mori, T., Toda, K. and Ohtake, H.
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Biotechnol. Techniques 4: 21-24 (1990).
39. Toda, K., Ye, Q. and Ohtake, H.
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J. Gen. Appl. Microbiol. 35: 407-412 (1990).
40. Yao, P., Ohtake, H. and Toda, K.
Factors affecting conjugative transfer rates of plasmid in batch and continuous cultures.
J. Ferment. Bioeng. 69: 215-219 (1990).
41. Fujii, E., Toda, K. and Ohtake, H.
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- J. Ferment. Bioeng.** 69: 365-367 (1990).
42. Park, Y., Ohtake, H. and Toda, K.
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Appl. Microbiol. Biotechnol. 33: 259-263 (1990).
43. Ohtake, H., Fujii, E. and Toda, K.
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J. Ferment. Bioeng. 70:114-118 (1990).
45. Ohtake, H., Fujii, E. and Toda, K.
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J. Gen. Appl. Microbiol. 36:203-208 (1990).
46. Toda, K., Yao, P. and Ohtake, H.
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49. Komori, K., Rivas, A., Toda, K. and Ohtake, H.
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51. Komori, K., Wang, P., Rivas, A., Toda, K. and Ohtake, H.
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52. Wang, P., Mori, T., Toda, K. and Ohtake, H.
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54. Toda, K., Miyake, M. and Ohtake, H.

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58. Nikata, T., Sumida, K., Kato, J. and Ohtake, H.
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62. Hardoyo, Kajiwara, S., Kato, J. and Ohtake, H.
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63. Ohga, T., Masduki, A., Kato, J. and Ohtake, H.
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FEMS Microbiol. Lett. 113: 63-66 (1993).
64. Kato, J., Yamamoto, T., Yamada, K. and Ohtake, H.
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Gene 137: 237-242 (1993).
65. Kato, J., Yamada, K., Muramatsu, A., Hardoyo and Ohtake, H.
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Appl. Environ. Microbiol. 59: 3744-3749 (1993).
66. Fujie, K., Tsuchida, T., Urano, K. and Ohtake, H.
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Water Sci. Technol., 30: 235-243 (1994).
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68. Kato, J., Sakai, Y., Nikata, T., and Ohtake, H.
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J. Bacteriol. 176: 5874-5877 (1994).
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Appl. Environ. Microbiol. 60: 3485-3490 (1994).
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J. Bacteriol. 177:948-952 (1995).
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J. Bacteriol. 177:7019-7025 (1995).
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(in Japanese).
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phosphate-specific transport system.
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bacterium *Nitrosomonas* sp. ENI-11.
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to amino acid starvation in *Escherichia coli*.
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and hydroxylamine oxidoreductase in the ammonia-oxidizing bacterium
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and Ohtake, H.
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