

"Environmental Microbiology" Group, CIB

Final productivity in 1997

(Numbers in parenthesis near journal's name are the scientific impact, 1997)

Summary

Original publications in peer-reviewed, scientific <u>international</u> journals. Published and "in press"	8
Publication in national journals	1
Submitted papers	10
Publications in books	7
Abstracts in conferences	5
Total productivity (without abstracts)	26

- **Average "Impact Factor" of all published and "in press" papers: 1.68**

PUBLISHED AND "IN PRESS" PUBLICATIONS

Publications in scientific international reviewed journals

1. Bashan, Y. and Holguin, G. 1997. *Azospirillum*/plant relationships: environmental and physiological advances (1990-1996). **Canadian Journal of Microbiology** 43: 103-121. (1.184)
2. Holguin, G. and Bashan, Y. 1997. Nitrogen-fixation by *Azospirillum brasilense* Cd is promoted when co-cultured with a mangrove rhizosphere bacterium (*Staphylococcus* sp.) **Soil Biology and Biochemistry** 28:1651-1660. **(1.356)**.
3. Glick, B.R., and Bashan, Y. 1997. Genetic manipulation of plant growth-promoting bacteria to enhance biocontrol of phytopathogens. **Biotechnological Advances** 15: 353-378. (0.515)
4. Castellanos, T., Ascencio, F. and Bashan, Y. 1997. Cell-surface hydrophobicity and cell-surface charge of *Azospirillum* spp. **FEMS Microbiology Ecology** 24:159-172 (1.776)
5. Bashan, Y., and Holguin. 1997. A proposal for two classifications: biocontrol-PGPB (Plant Growth-Promoting Bacteria) and PGPB. **Soil Biology and Biochemistry** **(1.356)**. (in press)
6. Bashan, Y. 1997. Evidence for the harmlessness of *Azospirillum*: pathogenicity tests in tomato, pepper, wheat, and cotton plants. **Canadian Journal of Microbiology** (1.184)(in press)

7. Bashan, Y. 1997. Inoculants of plant growth-promoting bacteria for agriculture. **Biotechnological Advances** (0.515)(inpress)
8. Castellanos, T., Ascencio, F. and Bashan, Y. 1997. Cell-surface lectins of *Azospirillum* spp. **Current Microbiology** (0.962) (in press)

PUBLICATIONS IN BOOKS

9. Bashan, Y., and Carrillo, A. 1997. Bacterial inoculants for sustainable agriculture. In: **New horizons in agriculture: agroecology and sustainable development.** (Eds). J. Pérez-Moreno and R. Ferrera-Cerrato. Published by Colegio de Postgraduados en ciencias agrícolas, Montecillo, Mexico. pp. 125-155.
10. Bashan, Y. 1997. Alternative strategies for controlling plant diseases caused by *Pseudomonas syringae*. In: **Pseudomonas syringae pathovars and related pathogens.** Developments in plant pathology, vol. 9. (Eds.) K. Rudolph, T.J. Burr, J.W. Mansfield, D. Stead, A. Vivian and J. von Kietzell, Kluwer Academic Publishers, Dordrecht, The Netherlands. pp. 575-583.
11. Alcaraz-Melendez, L., Real-Cosío, S., Amador, A., and Bashan, Y. 1997. Evidence for harmless and deleterious effects of *Azospirillum* spp. inoculation of plants. In: **Plant Growth-Promoting Rhizobacteria- present status and future prospects.** (Eds) A. Ogoshi, K. Kobayashi, Y. Homma, F. Kodama, N. Kondo and S. Akino. Published by: Faculty of Agriculture, Hokkaido University, Sapporo, Japan. pp. 384-388.
12. Bashan, Y. and Holguin, G. 1997. Short- and medium term avenues for *Azospirillum* inoculation. In: **Plant Growth-Promoting Rhizobacteria- present status and future prospects.** (Eds) A. Ogoshi, K. Kobayashi, Y. Homma, F. Kodama, N. Kondo and S. Akino. Published by: Faculty of Agriculture, Hokkaido University, Sapporo, Japan. pp. 130-149.
13. Castellanos, T., Ascencio, F., and Bashan, Y. 1997. Bacterial cell-surface hydrophobicity, charge, and lectins as possible means for the initial attachment of *Azospirillum* spp. to surfaces. In: **Plant Growth-Promoting Rhizobacteria- present status and future prospects.** (Eds) A. Ogoshi, K. Kobayashi, Y. Homma, F. Kodama, N. Kondo and S. Akino. Published by: Faculty of Agriculture, Hokkaido University, Sapporo, Japan. pp. 389-393.
14. Carrillo, A., and Bashan, Y. 1997. Microencapsulation as a potential carrier for plant growth-promoting bacteria. In: **Plant Growth-Promoting Rhizobacteria- present status and future prospects.** (Eds) A. Ogoshi, K. Kobayashi, Y. Homma, F. Kodama, N. Kondo and S. Akino. Published by: Faculty of Agriculture, Hokkaido University, Sapporo, Japan. pp. 460-463.

15. Glick, B.R., and Holguin, G. 1997. The use of Plant growth-promoting rhizobacteria to improve plant productivity. In: **Biotechnology International**. Edited by: F. Fox and T.H. Connor, Universal Medical Press, Florida, USA.(in press)

PUBLICATIONS IN NON-REVIEWED NATIONAL JOURNALS

16. López-Cortés, A. 1997. Ecología y Biotecnología de las Comunidades Microbianas. **Ciencia y Desarrollo**.(in press)

SUBMITTED PUBLICATIONS

PUBLICATIONS IN SCIENTIFIC INTERNATIONAL REVIEWED JOURNALS

1. Alcaraz-Melendez, L., Real Cosío, S., and Bashan, Y. 1997. The inoculation of *Azospirillum* spp. does not induce common pathogenic reactions in carbon-source-stressed cowpea calli. **Canadian Journal of Botany** (0.848)
2. Lopez-Cortes, A. 1997. Hydrophobicity and adherence to mineral particles by phototrophic bacteria of microbial mats. **Precambrian Research** (1.262)
3. Ianson, D.C., and Bashan, Y. 1997. Mycorrhizal status in plants from the tropical dry forest of Sierra de la Laguna, Baja California Sur, Mexico. **Canadian Journal of Botany** (0.848)
4. Toledo, G., Rojas, A. and Bashan, Y. 1997. Black mangrove reforestation on the arid coast of Laguna de Balandra, Baja California Sur, Mexico: tree survival and development after two years. **Plant Ecology**
5. Bashan, Y., Puente, M.E., Myrold, D. and Toledo, G. 1997. In vitro transfer of fixed nitrogen from diazotrophic filamentous cyanobacteria to black mangrove seedlings. **FEMS Microbiology Ecology**
6. Holguin, G., Patten, C., and Glick, B.R. 1997. Genetic manipulation of *Azospirillum*. **Biology and Fertility of Soils**.
7. Holguin, G., Puente, M.E., Glick, B.R. and Bashan, Y. 1997. Root surface colonization by *Azospirillum ha;ofraeferance* and *Azospirillum brasilense* of black mangrove seedlings in seawater. **Microbial Ecology**.
8. Bashan, Y. and Rojas, A. 1997. Improved establishment and development of three cacti species inoculated with *Azospirillum brasilense* in eroded, disturbed urban soil. **Microbial Ecology**

9. Vazquez, P., Holguin, G., Puente, M.E., Lopez-Cortes, A. and Bashan, Y. 1997. Phosphate solubilizing microorganisms from mangrove rhizospheres. **Biology and Fertility of Soils**

PUBLICATIONS IN NON-REVIEWED NATIONAL JOURNALS

10. Holguin, G., Bashan, Y., Mendoza-Salgado, R., Amador E., Toledo, G. and Vazquez, P. 1997. Mangroves, forests in the frontier between land and sea. **Ciencia y Desarrollo**

ABSTRACTS IN SCIENTIFIC MEETINGS

1. Bashan, Y., and Rojas, A. 1997. Mejoramiento y desarrollo de tres especies de cactus, a través de la inoculación con *Azospirillum brasilense* en suelos urbanos erosionados. In "Helia Bravo Hollis" First National Congress on Cacti. 26-29.11.97. Montecillo, Mexico.
2. Bashan, Y., Toledo, G., and Holguin, G. 1997. Síndrome de decaimiento y de "Aplanación apical" en el cardón gigante (*Pachycereus pringlei*): descripción y distribución en Baja California Sur, México. In "Helia Bravo Hollis" First National Congress on Cacti. 26-29.11.97. Montecillo, Mexico.
3. López-Cortés, A. y Méndez L. 1997. Retiro de Cobre por Cianobacterias Marinas. VII Congreso Nacional de Biotecnología y Bioingeniería. Mazatlán, México.
4. López-Cortés, A., Arredondo, B.O., García-Carreño, F. and Vázquez-Juárez, R. 1997. La Biotecnología Marina en el CIBNOR. VII Congreso Nacional de Biotecnología y Bioingeniería. Mazatlán, México..
5. López-Cortés, A. 1997. Marine Cyanobacteria from Bahía Concepción, B.C.S., México. Conference on Marine Cyanobacteria and Related Organisms. Institut Oceanographique, Paris, France, 24-28 November.