The Bashan Institute of Science

Final 2015

(Numbers in parenthesis adjacent a journal's name are the impact factor, 2014)

SUMMARY

- Original publications in peer-reviewed journals with Impact factor
- Published and "in press" - 5
- Submitted papers - 8
- Publications of chapters in books - 2
- Invited presentations at conferences/seminars - 12
- Submitted new projects - 5
- Review of manuscripts for international and national journals and funding agencies - 70

Total productivity (without conferences, reviews, and reports) for 2015: 15

Average “Impact Factor” of all published papers in 2015: 2.834

Published and "in press" publications in peer-reviewed journals having an impact factor: 5


Chapters in books: 2


Submitted publications: 8

Scientific international reviewed journals


**Scientific industrial newsletter**


**Presentations at conferences:** 12 (the invitee and the presenter = in bold)

1. **de-Bashan, L.E., and Bashan, Y.** 2015. Encapsulation in polymers of microalgae growth-promoting bacteria; a useful technology for wastewater treatment and also as a delivery system for probiotics and vaccines. Seminar of the School of Fisheries, Aquaculture & Aquatic Sciences. March 6, 2015, Auburn University, Alabama, USA *(Shared invited lecture)*

2. **de-Bashan, L.E.,** and Bashan, Y. 2015. Uso y aplicaciones de algas inmobilizadas en el tratamiento de aguas contaminadas. Seminar of the Center of Biotechnology, April 1. 2015, University of Concepcion, Chile. *(Invited lecture)*


8. **Bashan, Y.** 2015. Who is an author or co-author of a scientific paper? In: Special seminar, Joined groups of molecular environmental microbiology and biocontrol of pathogens, Auburn University, October 27, 2015, Auburn, Alabama, USA *(Invited lecture)*.


**Scientific recognition and international services**

1. **Asian PGPR Society of Sustainable Agriculture.** Founder and Secretary (Dr. Luz de-Bashan).

2. **Recognition by scientific social network.** Listed as the most cited researcher from Mexico in August 2015. (According to Research Gate, September 2, 2015; Prof. Yoav Bashan).

3. **Recognition by the home institute.** Recognized as the most published scientist of CIBNOR, La Paz, Mexico in its last 40 years. (October 30, 2015; Prof. Yoav Bashan).

4. **Review of manuscripts for journals, funding agencies and foreign universities: Total: 70**

<table>
<thead>
<tr>
<th>Reviewer</th>
<th>Journal, University or Funding Agency</th>
<th>Country</th>
<th>Number of manuscripts</th>
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<tbody>
<tr>
<td>Yoav Bashan</td>
<td>Water Research</td>
<td>The Netherlands</td>
<td>3</td>
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<td>Antonie van Leeuwenhoek J. Microbiology</td>
<td>The Netherlands</td>
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<td>Applied Energy</td>
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<td>Scientia Horticulturae</td>
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<td>European Journal of Wood and Wood Products</td>
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<td>Plant and Soil</td>
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<td>Biology and Fertility of Soils</td>
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<td>Acta Physiologica Plantarum</td>
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<td>AMB Express</td>
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<td>Desalinization and Water Treatment</td>
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<td>Journal of Zhejiang University</td>
<td>P.R. China</td>
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<td>Chinese Academy of Forestry</td>
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<td>Luz de Bashan</td>
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<tr>
<td>Biology and Fertility of Soils</td>
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<td>Journal of Applied Phycology</td>
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<td>CONACYT-Basic science</td>
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**Submitted projects: 5**

“Endophytic bacteria of the woolly moss (*Racomitrium lanuginosum*): biogeography, ecology and geomicrobiology”.
Funding agency: Icelandic Research Fund (IRF) 2015
PI: Dr. Oddur Vilhelmsson, University of Akureyri, Iceland
Co-PI: Prof. Yoav Bashan, Dr. Luz E. de-Bashan

“Inoculante microbiano basado en un complejo alga-bacteria para mejorar la calidad de suelos degradados”
Funding agency: CONICYT – Chile, Proyectos Internacionales de Investigacion
PI: Dr. Cristian Agurto – Universidad de Concepcion, Chile
Co-PI: Prof. Yoav Bashan, Dr. Luz E. de-Bashan

“Desarrollo de una formulación inmovilizada a partir de hidrogeles y consorcio alga-bacteria para recuperar suelos degradados y aumentar la retención de agua en áreas agrícolas de baja productividad”
Funding agency: Fundación para la Innovación Agraria, Ministerio de Agricultura, Chile.
PI: Dr. Mauricio Schoebitz, Universidad de Concepcion, Chile
Co-PI: Prof. Yoav Bashan, Dr. Luz E. de-Bashan

“Establishment and function of synthetic mutualism in a microalgae-bacteria association”
Funding agency: National Science Foundation (NSF), USA
PI: Dr. Luz de-Bashan
Co-PI: Prof. Yoav Bashan, Dr. David Blersch Auburn University
Participante: Dr. Blanca Lopez
Personnel in 2015
(H-index and citations according to Google Scholar, January 5, 2016)

Scientists-in-residence
1. Dr. Luz Gonzalez de-Bashan (H-index-31; Citations- 5,002; life-time, average Impact factor52 publication- 3.084 )
2. Prof. Yoav Bashan (H-index-61; Citations- 14,658; last 10 years, average Impact factor60 publication- 3.002)

Associate scientists
3. Dr. Blanca Lopez (H-index-6; Citations- 126)
4. M.Sc. Juan-Pablo Hernandez (H-index-17; Citations- 1,310)
5. Dr. Alfonso Medel (also: Webmaster-in-Chief)

Business officer
MBA, Eng. Noga Bashan

International and national collaborations in 2015
(in: projects and publications in chronological order of cooperation)

1. Prof. Hani Antoun. Laval University, Quebec (Canada). Water Bioremediation. (not active in 2015)
3. Prof. Anton Hartmann and Dr. Michael Schmid. German Research Center for Environmental Health, München, (Germany). FISH and plant-bacteria interactions.
4. Prof. Martin Heil, CINVESTAV (Guanajuato, Mexico). Mutualism between microalgae and bacteria.
5. Dr. Alberto Mendoza- CBG-IPN, Reynosa, Tamaulipas (Mexico). Colonization of Azospirillum.
6. Prof. Joseph Kloepper, M.Sc. John McInroy and Dr. Ping Huang, Auburn University, Auburn (USA). PGPB/PGPR.
7. Prof. Gabriela Olmedo, CINVESTAV (Guanajuato, Mexico). Mutualism between microalgae and bacteria.
12. Prof. Rainer Borriss. Humboldt University (Germany). Molecular biology of desert bacilli. (not active in 2015)
15. Dr. Valeska Villegas Escobar. Universidad EAFIT, Medellin (Colombia). Detection of Bacillus subtilis by FISH.
17. **Dr. Xavier Myali**. Lawrence Livermore National Laboratory, California (USA). Study of microalgae-bacteria interaction using nanoSIMS.
18. **Dr. Peter Weber**. Lawrence Livermore National Laboratory, California (USA). Study of microalgae-bacteria interaction using nanoSIMS.
20. **Dr. Volker Huss**. University of Erlangen-Nürnberg (Germany). Systematics of *Chlorella*.
21. **Dr. Cristian Agurto**. University of Concepcion. (Chile). Biotechnology of microalgae.
23. **Prof. Roberto Riquelme** (Chile) University of Concepcion. Modeling of microalgae growth.
24. **Dr. Mauricio Schoebitz** (Chile) University of Concepcion. Restoration of forests.
26. **Dr. Oddur Vilhelmssson** (Iceland) University of Akurey. Endophytes from extreme environments.
27. **Dr. David Blerch** (USA) Auburn University. Mutualism microalgae-bacteria
29. **Dr. Henri Müller**, (Austria). Technical University of Graz. Formulations for inoculants. (new)
30. **Dr. Armin Erlacher**, (Austria). Technical University of Graz. FISH and 3D modeling.(new)