The Role of Microbiological Organizations in Meeting the Microbiological Needs of Food and Pharmaceutical Industries

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The Philippine Society for Microbiology, Inc

- was established on October 14, 1971 by some senior faculty members of the University of the Philippines at Los Baños

PSM Founders

Objectives

- Promotion of scientific knowledge in microbiology or related fields through workshops, symposia, trainings, reports, and publications,

Objectives

- Stimulation of scientific investigations and advancement in the frontiers of microbiology and/or allied fields

Objectives

- Contribution to the development of education in microbiology

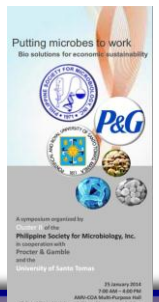
Objectives

- Recognition and accreditation of members in different specialized fields of microbiology

Cluster 1

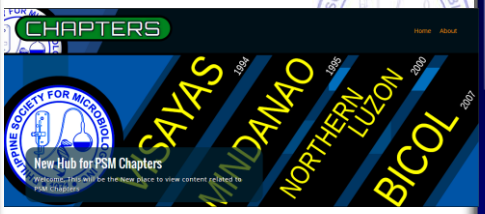
- Basic Microbiology
- Microbiology Education
- Medical Microbiology
- Food Microbiology
- Veterinary Microbiology

Cluster 2



- Agriculture
- Environmental
- Aquatic
- Industrial

Regional Chapters



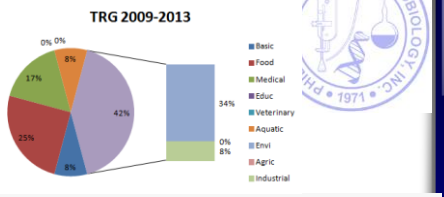
Activities

- National Annual Conventions
- Asia-Pacific Biotechnology Congress
- Cluster Symposia
- Regional Conventions
- Regional Caravans
- Outreach Programs

Grants and Subsidies

- Thesis Reproduction Grant
- Thesis Subsidy
- Regional Subsidy
- Young Microbiologist Travel Grant

Thesis Reproduction Grant



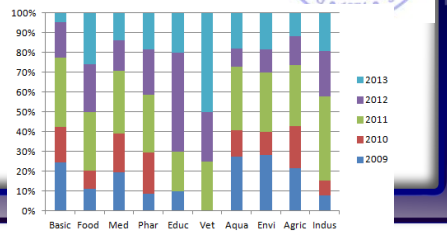
PSM will give thesis awards to six (6) B.S. and four (4) M.S. and two (2) Ph.D. students. The grant is intended for printing and reproduction of the students' thesis amounting to PhP 5,000 for each B.S. student; PhP 7,500 for the M.S and Php 10,000.00 for Ph.D. student.

Thesis Subsidy

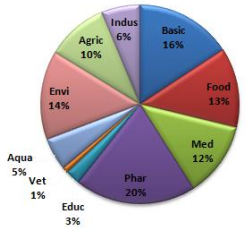
Category	Number of Slots	Maximum Amount of Grant (PhP)	Total (PhP)
Doctorate	2	40,000.00	80,000.00
Master	3	20,000.00	60,000.00
Undergraduate	6	10,000.00	60,000.00
GRAND TOTAL			200,000.00

Paper Presented in Annual Conventions 2009-2013

	Oral Presentations										Poster Presentations									
Year	Basic	Food	Med	Phar	Educ	Vet	Aqua	Envi	Agric	Indus	Basic	Food	Med	Pharm	Educ	Vet	Aqua	Envi	Agric	Indus
2009	7	2	3		1		3	3	1	1	9	4	7	7			3	14	8	1
2010	7	1	5	4				3	4		5	4	5	13			3	4	5	2
2011	9	4	1	5	2	1		9	4	3	14	12	15	19			7	9	9	8
2012	8	3	3	3	2		1		1		4	10	5	16	3	1	1	7	5	6
2013	2	8	3	10	1	2	4	4	4	3	1	6	4	5	1			7	1	2
	33	18	15	22	6	3	8	19	14	7	33	36	36	60	4	1	14	41	28	19	417



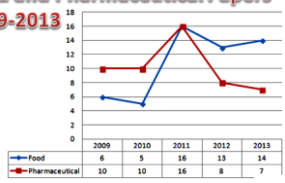
Paper Presented in Annual Conventions 2009-2013



Ranks	
	Mean Rank
Basic	6.25
Food	6.25
Medical	6.13
Pharma	8.00
Education	1.25
Aquatic	2.38
Environmental	7.00
Agricultural	4.50
Industry	3.25

Test Statistics[a]	
N	4
Chi-Square	22.403
df	8
Asymp. Sig.	.004

Food and Pharmaceutical Papers 2009-2013



	2009	2010	2011	2012	2013
Food	6	5	16	13	14
Pharmaceutical	10	10	16	8	7

Mann-Whitney Test

Ranks

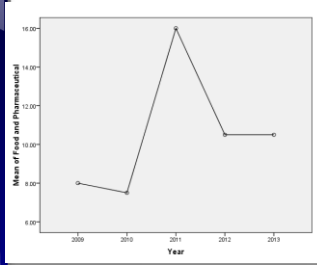
	Division	N	Mean Rank	Sum of Ranks
Number of Papers	Food Microbiology	5	5.50	27.50
	Pharmaceutical Microbiology	5	5.50	27.50
	Total	10		

Test Statistics[b]

	Number of Papers
Mann-Whitney U	12.500
Wilcoxon W	27.500
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000[a]

a. Not corrected for ties.
b. Grouping Variable: Division

Food and Pharmaceutical Papers 2009-2013



N	2
Chi-Square	4.205
df	4
Asymp. Sig.	.379

a. Friedman Test

Notable Topics For Food Microbiology

- Adopting Technological advancement for food safety HACCP requirements
- Competency monitoring
- Food safety and hygiene quality standards
- Improving traceability of food microbiology measurements
- Fermented food products

Notable Topics for Pharmaceutical Microbiology

- Anti-microbial products from natural resources
- Vaccine technology
- Antibiotic resistance and its epidemiology & diagnosis

How is PSM helping?

- Providing avenues for scholarly endeavors in terms of
  - Paper presentations
  - Grants
  - Conventions and symposia

How is PSM helping?

- Linkage with the industry and private sectors by fostering partnership for scholarly endeavors

How is PSM helping?

- Assisting members to get accreditation so the industry will hire personnel on competency-based standards

How is PSM helping?

- Identifying research gaps in the field of food and pharmaceutical microbiology

How is PSM helping?

- Updating members with innovations and modern technologies for microbial diagnostics for food and pharmaceutical industries


How is PSM helping?

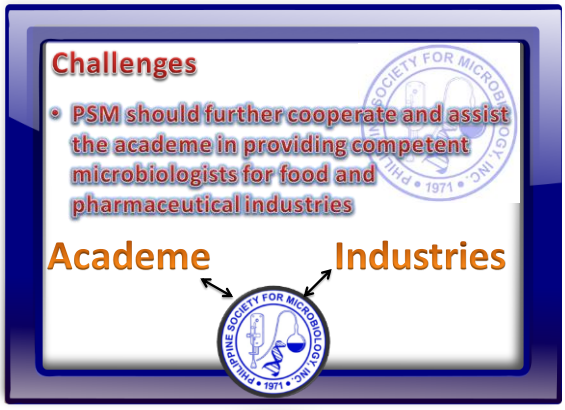
- Fostering public awareness through different multi-media platforms




Challenges

- Unifying BS Microbiology curriculum all over the Philippines where focus could be given to food and pharmaceutical microbiology recognizing its role for the industry


Challenges
• PSM should act as a bridge to create a closer linkage between the academe and the industry.
Academe
Industries


Challenges
• PSM should further cooperate and assist the academe in providing competent microbiologists for food and pharmaceutical industries
Academe
Industries


Challenges
• PSM should also cooperate with food and pharmaceutical industries for the optimal research utilizations
Academe
Industries

Challenges

- Benchmarking with other IUMS members

INTERNATIONAL UNION OF MICROBIOLOGICAL SOCIETIES
IUMS

Challenges

- Coping up with the challenges for the upcoming ASEAN 2015 – are we at par with our neighbors?

Thank you very much!!!

It's more fun in PSM!