

CARMENCITA D. PADILLA, MD, MAHPS

Professor and Chancellor University of the Philippines Manila



The University of the Philippines (UP) is the national university by virtue of Republic Act No. 9500.



UP is a system of eight (8)
Constituent Universities
across the country, with
21 campuses and a total
of 50,000 students.



Lead in setting academic standards and initiating innovations in teaching, research, and faculty development

Serve as a graduate university

Serve as a research university

Lead as a public service university

Serve as a regional and global university university



UP is mandated to serve as a research university with national relevance and global orientation and to lead in basic and applied research and development.

RESEARCH INSTITUTES AND CENTERS IN UP

UP DILIMAN

32 research institutes, **7** national institutes, and **3** international

centers dedicated to the sciences, humanities, and arts

2 research institutes dedicated to the management

UP BAGUIO

of and studies to the Cordilleras

UP VISAYAS

7 research centers on fisheries

and marine sciences

UP LOS BAÑOS

6 research institutes

for agricultural studies

UP MANILA

14 research institutes focused on health

UP Diliman Chemical Youth Project



UP Mindanao



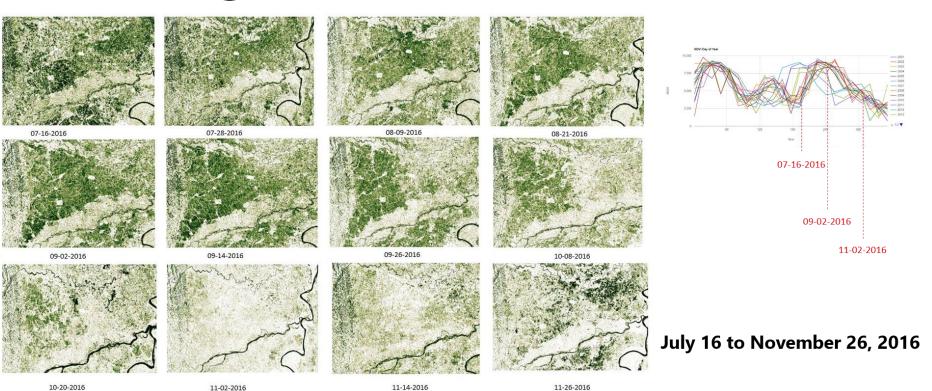
UP Los Banos

Project SARAI

Smarter Approaches to Reinvigorate Agriculture as an Industry in the Philippines

Monitoring of Rice Areas (Isabela)

11-02-2016



UP Baguio

Tuklas-Lunas Development Consortium of the Cordillera Administrative Region (TLDC-CAR)



Program head
Dr. Teodora
Balangcod
briefs DOST
Secretary
Fortunato dela
Peña on her
research as
research leader
Dr. Roland
Hipol and
Chancellor
Raymundo
Rovillos, look
on.

UP Cebu



dwh simulation services





AN AGENT-BASED EPIDEMIC MODEL FOR DENGUE SIMULATION IN THE PHILIPPINES

¹Florian Miksch, ¹Philipp Pichler, ²Katrina S. T. Casera, ²Aldrin N. Navarro, ³Martin Bicher, ²Kurt J. P. Espinosa ¹dwh simulation services, Vienna, Austria

²University of the Philippines Cebu, Department of Computer Science, Cebu City, Philippines ³TU Wien, Institute for Analysis and Scientific Computing, Vienna, Austria

INTRODUCTION

Dengue

- Infectious disease with frequent outbreaks in tropical countries
- Mosquito-borne
- Interventions:
 - Mosquito control
 - Prevent from getting bitten
 - Vaccination (future)

Objectives

- Develop an agent-based model for simulation of dengue epidemics
- Proof of concept: simulate the 2010 dengue epidemic in Cebu City, Philippines

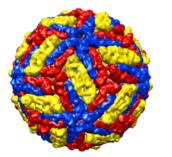
DATA

Dengue

- 5 Serotypes: DENV-1 to DENV-5
- Outbreaks: single serotype (typically)
- Vectors: mosquitoes, Aedes aegypti
- Transmissions: from mosquitoes to humans and vice versa

Humans

- Infection progress (states, duration, recovery, immunity)
- Symptoms (asymptomatic cases, dengue fever - DF, dengue hemorrhagic fever - DHF, dengue shock syndrome - DSS)



Mosquitoes

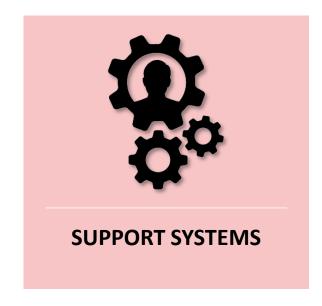
- Infection progress (states)
- Life span, reproduction
- Biting behavior

Cebu City

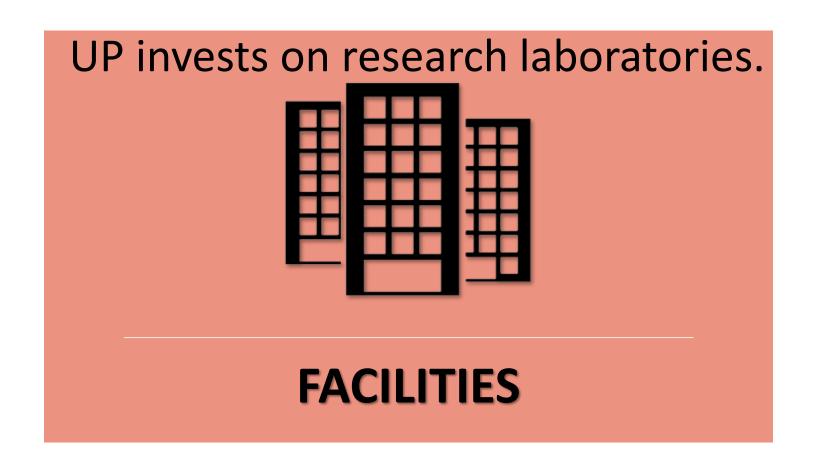
UP as a Research-enabling University

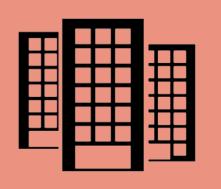






UP as a Research-enabling University





Philippine
Genome
Center (PGC)

The **Philippine Genome Center** is a multidisciplinary institution that combines basic and applied research for the development of health and therapeutic products, and improved agriculture and aquatic resources.



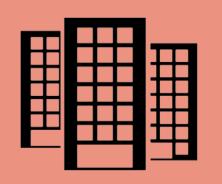


Philippine
Genome
Center (PGC)



Illumina NovaSeq 6000 (Max Output: 3000 Gb) Illumina NovaSeq 6000 (Max Output: 3000 Gb) Illumina MiSeq

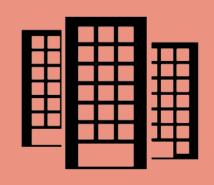




Philippine
Genome
Center (PGC)

Philippine Genome Center UP Main HQ
Philippine Genome Center UP Visayas
Philippine Genome Center UP Mindanao





National Institutes of Health (NIH)



Old NIH building

New NIH building Opening 2020





NIH is composed of 13 institutes and 40 study groups.

- Institute on Aging
- Institute of Child Health and Human Development
- Institute of Clinical Epidemiology
- Institute of Health Policy and Development Studies
- Institute of Herbal Medicine
- Institute of Human Genetics
- Philippine Eye Research Institute
- Institute of Pharmaceutical Sciences
- Institute of Molecular Biology and Biotechnology
- Philippine National Ear Institute
- Newborn Hearing Screening Reference Center
- Newborn Screening Reference Center
- National Telehealth Center
- National Training Center for Biosafety and Biosecurity



National Institutes of Health (NIH)







UP as a Research-enabling University





The Office of the Vice President for Academic Affairs (OVPAA) is committed to provide an environment conducive to outstanding performance and high productivity and modernized physical facilities and technological infrastructure for research.

FURTHER TRAINING

- Balik-PhD Recruitment Program
- Externship in Industry
- PhD and Master's Fellowship Program
- Short-term Training in Foreign Universities

FUNDING OF INNOVATIVE PROJECTS

- Emerging Interdisciplinary Research
- Enhanced Creative Work and Research Grant

RECOGNITION

- Concepcion D. Dadufalza Award for Distinguished Achievement
- Distinguished Artists-, Scientists-, and Academics-in-Residence
- Gawad Pangulo for Progressive Teaching and Learning
- Gawad sa Natatanging Publikasyon sa Filipino
- Gémino H. Abad Awards for Poetry and for Literary Criticism
- Service of Professor Emeritus and Retired Professor Program

MONETARY AWARDS

- International Publication Award
- Invention Disclosure Incentive
- One U.P. Professorial Chair Awards and One U.P. Faculty Grant Awards
- Research Dissemination Grant
- UP Arts Productivity System
- UP Scientific Productivity System

ASSISTANCE TO FACULTY

- Teaching Associate/Teaching Fellow Program
- Visiting Professor Program

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 For Journal Articles, Books, and Book Chapters

Value of award:

- 1) For journals with no impact factor (IF): Maximum amount: ₱55,000
- 2) For journals with IF: ₱65,000 to ₱155,000
- *The IPA per publication for UP units is P15,000.
- 3) For books: ₱110,000
- 4) For book chapter: ₱55,000 to ₱65,000

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Support for Paper Presentation in International Conferences

The RDG is an award to outstanding faculty and REPS researchers who receive invitations or gain acceptance to present their research papers in prestigious international conferences.

The amount of the grant is fixed per applicant and based on the location of the international conference.

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• Conferment of the title "UP Scientist" with monetary award:

UP Scientist I ₱150,000/annum

UP Scientist II ₱200,000/annum

UP Scientist III ₱250,000/annum

The SPS aims to: (1) support the development of science and technology and (2) encourage and reward scientific productivity.



INCENTIVES & REWARDS

UP Manila

Programs
implemented by
the Office of the
Vice Chancellor
for Academic
Affairs

UPM Research Dissemination Grant (RDG) and Faculty Development Grant

RDG: For poster and oral presentation of research or study outputs in international and national conferences FDG: For academic presentation, attendance in conferences, and short courses/training programs overseas

Value of award varies depending on the location of the event.

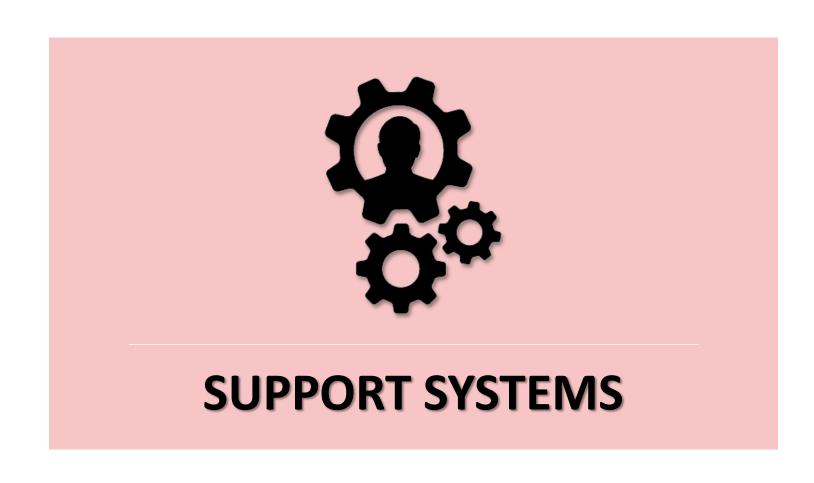
UPM Publication Award

Value of award: ₱30,000 per original article

UPM Publication Fee

Maximum publication fee given is US\$500

UP as a Research-enabling University



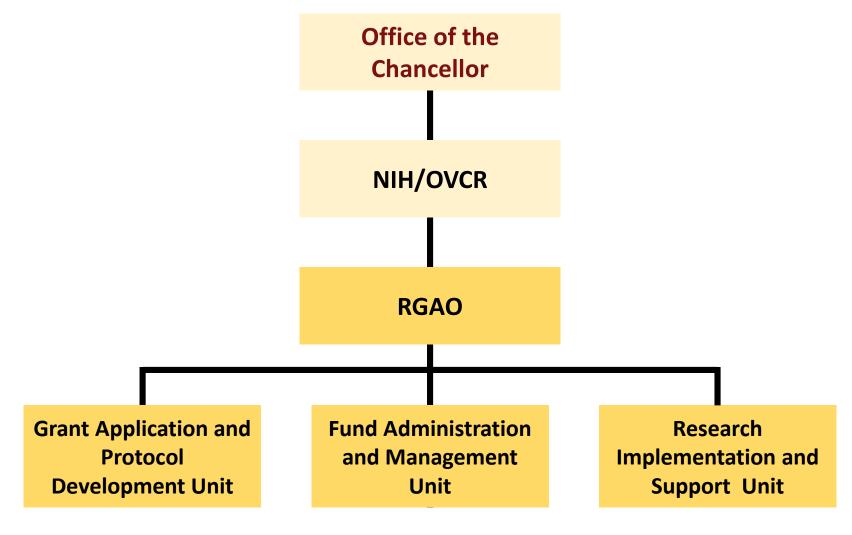


UPM Research Grants Administration Office

RGAO assists investigators in 1) preparing the necessary documents required in applying for grants/funds and 2) complying with the requirements of the sponsor or organizations/institutions.



RGAO Organizational Chart





RGAO

Grant Application and Protocol Development Unit

Functions:

- 1. Facilitates protocol development;
- 2. Oversees and facilitates the process of research protocol review and approval;
- 3. Oversees and facilitate ethics approval from UPM REB; and
- 4. Oversees and facilitates the processing of research collaboration requirements (MOU/MOA/MTA).



RGAO Fund Administration and Management Unit

Functions:

- Identifies funding sources and facilitate the processing and requirements for external grants awards;
- 2. Negotiates with funders regarding **final budget**; and
- Oversees the process of research funding administration including fund acceptance, disbursement, liquidation, and financial report generation
- 4. Monitors and update the investigator on the availability of funds
- 5. Oversees post award fiscal and administrative issues



SUPPORT SYSTEMS

RGAO

Research Implementation and Support Unit

Functions:

- 1. Monitors and facilitates research implementation (from initiation to closure) through processing of administrative requirements;
- 2. Monitors and facilitates **study report submissions** (to ethics, institution, sponsor), except financial reports;
- 3. Monitors and **facilitates research dissemination** (publication and presentation) thru coordination with Research Dissemination Office;
- 4. Coordinates research productivity related reporting (internal and external); and
- 5. Maintains an inventory of ongoing and completed researches



UPM Research Bridging Effort Funds (BriEF) Assistance Program

- To provide short-term (brief) limited financial support for faculty research projects during periods when an externally funded research program/project have no funds available yet or have experienced a temporary funding gap
- UP Manila has set aside 20 million for the Research Bridging Effort Funds Program



UPM Research Ethics Board

REB integrates all existing ethics committees in UP Manila under a single research ethics board with component review panels, and guided by a unified set of standard operating procedures (SOPs).

This initiative was intended to streamline and harmonize the process of ethics review, maximize the utilization of human and institutional resources, and provide a supportive and enabling environment for research in the University.



SUPPORT SYSTEMS

Technology Transfer and Business Development Office



INNOVATION AND TECHNOLOGY SUPPORT OFFICE (ITSO)



UP and IPOPHL as institutional partners under the ITSO Program

One of the flagship initiatives of the Intellectual Property Office or IPOPHL is to establish a network of Innovation and Technology Support Offices (ITSOs) in strategic areas and institutions in the country, like UP, with high potential for patent activity, usage of patent information and commercialization of innovation.

UP recognized that operating an ITSO in its premises will ultimately result in increased IP creation, protection and commercialization through capacity building interventions and assistance in patent prosecution, the university signed a Memorandum of Agreement with IPOPHI, on February 2012

SUCCESS STORIES



All these programs and continuous development of research activities across all CUs improved the ranking of **UP** worldwide.



TIMES HIGHER EDUCATION WORLD UNIVERSITY RANKINGS (WUR)

Criteria

Teaching (30%)

Research (30%)

Citations (30%)

International Outlook (7.5%)

Industry Income (2.5%)

Exclusions

Universities are excluded in the WUR if they do not teach undergraduate or if their research output is fewer than 1,000 relevant publications between 2013 to 2017, with a minimum of 150 a year.

Universities can also be excluded if 80 per cent or more of their research output is exclusively in one of our 11 subject areas.



TIMES HIGHER EDUCATION WORLD UNIVERSITY RANKINGS (THE-WUR)

	WUR 2019	Teaching	Research	Citations	Industry Income	International Outlook
OF THE 1908 1908	501-600	21.7	16.4	69.1	35.8	39.5
WANILA WANILA	801-1000	16.7	10.8	28.4	34.0	33.7

1,258 universities were ranked this year compared to ~1,100 last year



TIMES HIGHER EDUCATION – **ASEAN** UNIVERSITY RANKINGS 2019

2019	University	Country/region
2	National University of Singapore	Singapore
7	Nanyang Technological University, Singapore	Singapore
=38	University of Malaya	Malaysia
95	University of the Philippines	Philippines

Association of Southeast Asian Nations / Members





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Citations are indicators of research influence quantifying the universities' role in spreading new knowledge and ideas.

Citations reflect the average number of times a university's published work is cited by scholars globally. This year, Elsevier examined 67.9 M citations to 14.1 M publications over 5 years in 25 000 academic journals indexed by Elsevier's Scopus database.



TIMES HIGHER EDUCATION WORLD UNIVERSITY RANKINGS (THE-WUR)



UP is **7**th in the rankings for health citations

721 universities were ranked this year compared to 501 last year

Citation Scores (2019) Clinical, pre-clinical and health

University of the Philippines	98.8
University of Oxford	92.7
Stanford University	92.1
University of Cambridge	88.5
Harvard University	87.4



QUACQUARELLI SYMONDS WORLD UNIVERSITY RANKINGS 2019









384

651-700

801-1000

801-1000

Continuing Challenges of UP



Need for more interdisciplinary research





Prioritize discoveries with larger public health impact





Broader national and international collaboration





Increased efficiency in research administrative processes



Heightened investments in human resources



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