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A. Administrative Experience

1. Vice-Chancellor for Research and Extension, University of the Philippines Visayas, November 2011- October 2014; November 2014 – Present (Renewal)
  - Defined responsibilities (Source: UP Gazette Jan-March 2001 – Elevation of ORC to OVCRE)
    - Plan out programs and activities that respond to research needs across colleges
    - Work with the colleges and assist them in their peculiar research challenges
    - Initiate development of grant proposals that are interdisciplinary and not limited to a single field (a coverage which is increasingly in demand)
    - Initiate linkages which will enhance and bring in resources for research
    - Identify and propose policies that will enhance and vitalize research culture and undertakings
    - Attend on behalf of the university critical meetings that network research institutions with research councils and sources of grants
    - The OVCRE will put research and extension at par with instruction
    - It will attend to the two UPV journals to appropriately ensure that these come out of time.
    - The monitoring functions will only be part of the more routine tasks that this office will undertake to insure that research projects are undertaken responsibly and within the expected time frame and quality standards.
    - As UPV grows, the challenges for research, publication and technology development will become more complex, and so will its management. As such, the functions of an office of VCRE will accordingly evolve and continue to be essential.
  - Generally performed duties delegated by the Chancellor related to Research and Extension matters; directly managed funds now totaling P14.5 M annually dedicated for research creative work and public/extension service; directly supervises the OVCRE, staffed with 7 personnel; oversees the operations of 4 offices (SWF, OCEP, NIMBB, and GDP, which is also partly overseen by the OVCAA) with personnel numbering about 20; coordinates with all academic and administrative offices related to creative work and research and public/extension service; links with external agencies to establish collaborations and to seek funding; now has oversight over UPV TTBD, which is proposed for institution
  - Mobilized total funds amounting to P447,201,686.20 (2012-2016), including P63,788,517.48 (14.26%) from internal sources. Additional budget from external agencies (P330,837,701.34) and from foreign donors (P52,575,467.33) represent the engagements of UPV faculty and researchers to serve the general public, including industry, would also have been difficult to realize without the process innovations introduced starting in 2012, without which UPV would continue to be challenged in spending the meagre budget (about P3.0 M) for research and creative work. (Note: Actual numbers may now be changed due to dynamic changes in OVCRE's operations)
  - Conceptualized the development of the Research, Creative Work, Publications, Public Service (RCWPPS) database system, which allows all constituents to regularly update their non-teaching activities efficiently, provides administrators real-time monitoring of faculty and academic unit performance, eases preparation of reports; this is one of the computer applications being considered for supporting the operations of various SUCs in Region 6 through the support of CHED.

- Conceptualized an electronic application portal for submitting journals online with features that allow all communications between or executive editor, reviewers, and contributors all confined within the system; this is one of the computer applications being considered for supporting the operations of various SUCs in Region 6 through the support of CHED.
- Laid the groundwork for establishing the Regional Research Center (RRC) at the main campus in Miag-ao; envisioned to be a **certifying laboratory**, was supported with a total of P200 M, including P120 M for modern equipment from GAA 2016 and GAA 2017; additional budget of P42 M for equipment for accommodated for GAA 2018
- Facilitated the approval of a proposal to establish unit-based Satellite Research Laboratories for the RRC by introducing an innovative loan scheme of up to P2.0 M from UPV's Investment Fund for each academic unit, provided there is a mechanism in place to manage and maintain research laboratories at the unit level.
- Facilitated support for improvement of the Fish Biology Laboratory of IMFO and comfort rooms in Buildings 1 and 2 that was granted about P1.2 M from UP system
- Provided the original concept proposal building the Graduate Students Office; supported with P15 M allocation from UP System, this will seat about 56 Miag-ao-based PhD and MS students.
- Proposed the transformation of UPV's 2 journals (Philippine Journal of Natural Sciences and Philippine Journal for Social Sciences and Humanities), as online journals, which is now currently in use.
- Established partnerships with SUCs (VSU, CatsU, PSU, CSU, ASU, UA, CapSU), National Museum, some of which now have on-going collaborations. Finalizing similar MOUs with several other universities (NIPSC and SPAMAST)
- Spearheaded the UPV's strategic planning activity for RDE in 2012 that resulted to: a) harmonization of UPV's mandate in Fisheries and Aquatic Sciences; b) introduction of UPV's Comprehensive Research and Extension Agenda with Sixteen (16) overarching umbrella programs; and, 3) promotion of inter-, multi-, and trans-disciplinary RDE activities. OUTCOMES: Led to a) more inclusive implementation of projects; increase in number of project proponents from 69 in 2011 to about 198 as of June 2017; b) implementation of collaborative projects involving i) more than one faculty member, ii) senior and junior faculty members, iii) faculty and students (undergraduate or graduate students); iv) faculty from the arts and humanities; v) UPV and non-UPV researchers
- Expanded and revitalized UPV's funding windows for research from one (1) to six (6) since 2012. Aside from the Regular In-house Research Grant, windows added or expanded were: Small-budget In-House Research Grant; Theses and Dissertation Support Grant (later expanded to Special Problem); Mentored Research Grant (later categorized as Project); Creative Work Grant; Public Service/Extension Project UPV's Institutional Research Mentoring Initiative; tweaked processes to also cover UPV's 'Development' agenda; Consolidated Outcome: Improved fund utilization from < P3.0 M in 2011 to the current annual level of P14.5 M, an increase of 383%; expanded participation of faculty members across disciplines, not just in the natural sciences.
- Introduced the Expanded Research Dissemination Grant that supports annual participation in international conferences provided outputs are published in peer-reviewed journals or conference proceedings; Backed this up with up with Publications Support Grant that subsidized the cost of up to \$1,000 when publishing manuscripts in high impact journals.
- Organized the regular hosting of the International Conference on Fisheries and Aquatic Sciences (ICFAS); Outcomes: 1) ICFAS is now an annual event gathering over 150 participants who contribute about 100 oral and poster presentations, including enhancing foreign scientists; 2) UPV is helping enhance the capacity of partner HEIs in line with CHED's SUC leveling (for 2017, Partido State University and Cagayan State University); 3) UPV is contributing substantially to the economy of Iloilo City and is exposing the city and the Philippines to the world.

- Helped organize and hosted the 1<sup>st</sup> UPV Patib-ong International Conference on Intangible Heritage; Outcome: Over 100 participants were present; selected papers from the conference are currently reviewed for publication with the UPV Journal for Social Sciences and Humanities; a second intangible conference will be held in 2018 with ICHCAP as a major partner.
  - Supported the preparation of the manuscripts for the 13 volumes of the *Epics of Panay*, which not allows UPV, led by Professor Emeritus Alicia Magos, to spearhead the candidacy of these *Suguidanon* epics as a viable candidate to **UNESCO's World Heritage** list.
  - Re-engineered UPV's RDE processes (e.g. revised proposal review process, synergy strategies to link research with extension and vice versa, 'SMART' metrics); Outcomes: With more defined outputs, publication levels increased substantially from 13 as of 2011 to 26 in 2015 and 36 in 2016 (some manuscript contributions are still under evaluation); 1 copyrights approved or pending as of 2016; 2 applications granted with Invention Disclosure Incentives; 4 patents/ utility models approved or pending as of 2016
  - Introduced the formation of 'Research groups' (later renamed as 'Synergy' Groups) as a strategy to tighten the linkage between Research and Public Service/Extension Work or Community engagement; Outcomes: Ten (10) groups are now formed and are working on inter- or trans-disciplinary projects for submission to various funding agencies. Three of these groups, all with international collaborating institutions, applied for and won (100% batting rate) seed grants from UP System's Cycle 8 of the Emerging Inter-Disciplinary Research (EIDR) Grant.
  - Introduced of UPV's IRMI as a strategy to engage SUCs, HEIs, NGAs, NGOs, private sector. Presentations and workshops conducted in in Cagayan State University, Catanduanes State University, and Partido State University attracted a total of 6 MS and PhD students.
  - Raised consciousness of faculty members and researchers within the UPV community; Outcomes: As of 2016, the total number of names appearing as co-authors/project proponents for research projects alone is 198 (an increase of 187% from 2011 levels). Many more have now signified their intention to participate in various Synergy Projects, and this is expected to ramp up outputs for UPV.
  - UPV TTBDO was created and is not fully supported by UP System and DOST
2. Assistant to the Chancellor, University of the Philippines Visayas, January 1999 - May 2000
    - Provided inputs to support the [Agricultural and Fisheries Modernization projects](#)
  3. Director, Institute of Marine Fisheries and Oceanology, College of Fisheries and Ocean Sciences, July 1995 to June 1998
    - Led IMFO faculty in instituting the MS Ocean Sciences Program, two streams of which was eventually approved during the Directorship of Dr. Glenn D. Aguilar
    - Oversaw the operations of the Institute of Marine Fisheries and Oceanology, then implementing one undergraduate program and one MS level graduate program
    - Managed the operations of TRV Sardinella, then a non-performing asset, into

#### B. Teaching Experience

1. Professor, Institute of Marine Fisheries and Ocean Sciences, College of Fisheries and Ocean Sciences, University of the Philippines Visayas, October 2009 – Present
  - Generally taught courses at the MS and PhD levels
2. Associate Professor, Institute of Marine Fisheries and Ocean Sciences, College of Fisheries and Ocean Sciences, University of the Philippines Visayas, July 2005 – September 2009
  - Generally taught courses at the MS level
  - Part of the time was spent for PhD by Research work through the Ronpaku Program of Kagoshima University United Graduate School of Agriculture
3. Assistant Professor, Institute of Marine Fisheries and Ocean Sciences, College of Fisheries and Ocean Sciences, University of the Philippines Visayas, June 1991 – June 2005

- Generally taught courses at the MS level
  - Part of the time was spent for PhD by Research work through the Ronpaku Program of Kagoshima University United Graduate School of Agriculture
4. Instructor, Institute of Marine Fisheries and Ocean Sciences (formerly Department of Marine Fisheries) College of Fisheries and Ocean Sciences (formerly College of Fisheries), University of the Philippines Visayas, June 1984 to May 1991
    - Most this period was spent for graduate studies in MS Engineering
  5. Publications generated from supervised thesis of graduate students/advises (various years)
    - Monteclaro HM, **Babaran RP**, Sanares RC, Quinitio ET. 2014. Physiological and avoidance responses of juvenile mud crab *Scylla serrata* to mercury. *AACL Bioflux* 7(6):441-448.
    - Pedrosa-Gerasmio IR, **Babaran RP**, Santos MD. 2012. Discrimination of Juvenile Yellowfin (*Thunnus albacares*) and Bigeye (*T. obesus*) Tunas using Mitochondrial DNA Control Region and Liver Morphology. *PLoS ONE* 7(4): e35604. doi:10.1371/journal.pone.0035604
    - Balisco, R. **Babaran R.** 2012. Effects of hauling speed and hook types on the survival of nemipterids caught by handlines in Guimaras, Philippines. *Phil. J. Nat. Sci* 17(1):1-8.
    - Añasco N and **Babaran RP**. 2001. Spatial distribution and habitat selection of setnet-caught Greasyback Shrimp (*Metapenaeus ensis*) and Banana Prawn (*Penaeus merguensis*) in Batan Bay Estuary, Philippines. **UPV J. of Nat. Sci.**, 7(1&2): 196-217.
  6. Publications in preparation from supervised thesis of student advisees (various years) including the following:
    - A study of the reproductive biology of *Decapterus smithvanizi* sp. nov. (Supported by sub-sequent study of an under-graduate thesis advisee; see same entry indicated under teaching)
    - Otolith morphology and body length relationships of longline-caught nemipteris in Panay Gulf, Philippines

#### C. Research and Publication

1. Engagements through Research Project Mentoring either with publications under preparation (1<sup>st</sup> 2 entries), on-going project (3<sup>rd</sup> entry), or proposal in preparation (4<sup>th</sup> Entry)
  - Prof. Perry Neil Fernandez (July 6, 2015) for Comparative study of different global positioning system (GPS) in Application to Vessel Monitoring Project; One manuscript completed and finalized for submission.
  - Arnold Gaje (November 15, 2015) for Discrimination of Yellowfin Tuna Stocks from the Putative Nurseries in the Philippines using otolith Chemistry Project; One manuscript prepared for journal submission
  - Jerry Leonida (project on-going) for Postrelease effects of capture duration and escapement to immediate and long-term survival, physiology and behavior of hook and line-caught threadfin bream (Nemipterids)
  - Armi Mae T. Guzman (proposal in preparation) with a tentative title of Biodiversity of FinFishes Caught in Panay Gulf, Philippines
2. Engagements through Research Programs/Sub-programs
  - Sub-Program Leader, Fisheries-based Food Systems Project. Commission on Higher Education, November 2015 – March 2017.
    - Had overall management and supervision for 3 UPV-implemented projects
    - Facilitated collaboration with Cagayan State University and Catanduanes State University for two separate projects related to flying fish
  - Project Leader for Adoption of effective fishing and transportation techniques to increase survival of live demersal fish species Project (November 2015 – March 2017) with the following original manuscripts in preparation for publication

- Survival of Handline-caught Humpback Cardinal Fish (*Fibramia lateralis*) during and post transport
- Socioeconomic Status of Unisan Island and Basyaw Cove, Nueva Valencia, Guimaras- A Comparative Study
- Gonadosomatic Evaluation of Handline-caught Humpback Cardinal Fish (*Fibramia lateralis*) and Orbiculate Cardinal Fish (*Sphaeramia orbicularis*) in Basyaw Cove, Dolores, Nueva Valencia, Guimaras
- Project Leader, Technical assessment of the effects of net depth and mesh size on the size structure and catch composition of surroundings nets. Funded by Department of Science and Technology, Philippines – June 2010 – May 2013, with the following original manuscripts for journal publication
  - Some aspects of the reproductive biology of *Selar crumenophthlmus* and their relevant to payao fisheries management
  - Influence of set type and depth on catching ability, catch composition and catch diversity of surrounding nets
  - A study of the reproductive biology of *Decapterus smithvanizi* sp. nov. (supported by sub-sequent study of an under-graduate thesis advisee; see same entry indicated under teaching)
  - Study on Fish Aggregating Devices (FAD) and Associated Pelagic Fish Communities Using Hydro-acoustic Technique
  - Mesh size experiments and selectivity studies in a small-scale purse seine in the Philippines
- Project Director (for the Philippines), Benefiting from Innovations in Sustainable and Equitable Management of Fisheries on Trans-boundary Tunas in the Coral Triangle and Western Pacific” (BESTTuna Program), Collaborative Project of UP Visayas with Wagenigen University (Netherlands), University of the Philippines Mindanao (Philippines), Bogor Agricultural University (Indonesia), and the University of South Pacific (Fiji), January 2012 – December 2016, with the following publications completed and manuscripts in preparation
  - Macusi ED, van Zwieten PAM, **Babaran RP**, Mooij WM. Constraints and portfolio effect on a multispecies and multigear FAD fisheries. (in preparation)
  - Macusi ED, Katikiro RE, **Babaran RP**. 2017. The influence of economic factors in the change of fishing strategies of tuna FAD fishers in the face of declining catch, the Philippines. *Marine Policy* 78: 98–106
  - Macusi ED, **Babaran RP**, Abreo NAS, Palmes J. 2017. Local ecological knowledge of purse seine fishers on fish behavior and species distribution in anchored FADs (payao) in General Santos City, Philippines. *Front. Mar. Sci.* (doi: 10.3389/fmars.2017.00188)
  - Tolentino-Zondervan F, Berentsen P, Bush S, Idemne J, **Babaran RP**, Lansink AO. 2016. Comparison of Private Incentive Mechanisms for Improving Sustainability of Filipino Tuna Fisheries. *World Development* 83: 264-279.
  - Macusi ED, **Babaran RP**, Ingles JA. 2015. Vertical Movements, Behavior and Habitat Utilization of Adult Yellowfin Tuna (*Thunnus albacares*) Tagged in West Philippine Sea, Mindoro Island, Philippines. *IAMURE Multidisciplinary Research* 15:280-298.
  - Macusi ED, **Babaran RP**, van Zwieten PAM. 2015. Strategies and tactics of tuna fishers in the payao (anchored FAD) fishery from general Santos city, Philippines. *Marine Policy* 62: 63–73.
- Overall Team Leader (Philippines), Coastal Area Capability Enhancement Project in Southeast Asia. Collaborative Project of UP Visayas with Research Institute for Humanity and Nature (RIHN) (Japan), University of Tokyo, Tokyo University of Marine Science and Technology, Tokai University, Kagoshima University, Kasetsart University (Thailand), and the Southeast Asian Fisheries Development

Center – Aquaculture Department Aklan State University, April 2012 – March 2017.

- Aside from directly implementing Project component 2 (Biological Assessment), supervised the operations of 4 other Project Components led by UPV and SEAFDEC Scientists
  - Project Leader, Component 2 (Biological Assessment), Coastal Area Capability Enhancement Project in Southeast Asia. Collaborative Project of UP Visayas with Research Institute for Humanity and Nature (RIHN) (Japan), University of Tokyo, Tokyo University of Marine Science and Technology, Tokai University, Kagoshima University, Kasetsart University (Thailand), and the Southeast Asian Fisheries Development Center – Aquaculture Department, and Aklan State University, April 2012 – March 2017; with a co-edited field guide of fishes published, original co-authored manuscripts either published or completed but still for publication
    - Hata H, Alama UB, Cruz RS, **Babaran RP**, Motomura H. First specimen-based record of *Taractes rubescens* (Perciformes: Bramidae) from the Philippines (Original manuscript for journal submission)
    - Gaje A, Cambroner P, Alama B, Muto N, Traifalgar RF, Torechilla AM, Muto F, **Babaran RP**, Motomura H, Ishikawa S. First Records of red-fin Decapterus species (Perciformes: Carangidae) from Panay Island, Philippines. (Original manuscript for journal submission)
    - Kakioka R, Muto N, Takeshima H Gaje AC, Cruz RS, Alama UB, Guzman AMT, Traifalgar RFM, **Babaran RP**, Muda O, Arshaad WM, Arnupapboon S, Phuttharaksa K, Nguyen QV, Pham TT, Mitomura H, Muto F; Ishikawa S. Cryptic genetic divergence in *Scolopsis taenioptera* (Perciformes: Nemipteridae) in the western Pacific Ocean. Ichthyological Research Accepted 2017)
    - Muto N, Alama UB, Kakioka R, **Babaran RP**, Motomura H. 2017. First record of *Lutjanus madras* (Perciformes: Lutjanidae) from the Pacific Ocean, with comments on its intraspecific morphological variation. *Cybium* (Accepted 2017).
    - Motomura H, UB Alama, N Muto, **RP Babaran**, and S Ishikawa (eds). 2017. Commercial and bycatch market fishes of Panay Island, Philippines. The Kagoshima University Museum, Kagoshima, University of the Philippines Visayas, Iloilo, and Research Institute for Humanity and Nature, Kyoto. 244 pp, 911 figs.
    - Matsunuma M, Mazlan AG, Arshad A, Seah YG, Siti Tafzilmeriam SAK, Ramasamy AA, **Babaran RP**, Fukui Y, Motomura H. 2016. Distribution Range Extensions of *Paraperis bicoloripes* and *P. diplospilus* (Perciformes: Pinguipedidae) in the South China Sea and the Adjacent Waters, with Notes on Ontogenetic Changes in *P. bicoloripes*. *Species Diversity* 21: 187–196
    - Muto N, Takeshima H, Kakioka R, Alama UB, Guzman AMT, Cruz RS, Gaje AC, Traifalgar RFM, Motomura H, Muto F. **Babaran RP**, Ishikawa S. 2016. Rapid and cost-effective molecular identification of the three mackerel species of the genus *Rastrelliger* (Perciformes: Scombridae) using PCR-RFLP analysis. *Mar Biodiv*. DOI 10.1007/s12526-016-0537-7 (published online)
    - Muto N, Alama UB, Hata H, Guzman AMT, Cruz R, Gaje A, Traifalgar RFM, Kakioka R, Takeshima H, Motomura M, Muto F, **Babaran RP**, Ishikawa S. 2015. Genetic and morphological differences among the three species of the genus *Rastrelliger* (Perciformes: Scombridae). *Ichthyol Res*. DOI 10.1007/s10228-015-0498-z
3. One of faculty members identified to implement JSPS-DOST Core University Program, leading to the following publications:
- Mitsunaga Y, Endo C, **Babaran R**. 2013. Schooling behavior of juvenile yellowfin tuna *Thunnus albacares* around a fish aggregating device (FAD) in the Philippines. *Aquat. Living Resour.* 26:79–84.

- Ishizaki M, Cruz R, **Babaran R**. 2013. Fundamental Survey on Fish Aggregating Ability of Floating Fish Aggregating Device Payao in Panay Island, Philippines. Mem. Fac. Fish. Kagoshima Univ., Special Issue, pp. 39-44.
  - Cruz, R, Ishizaki M, **Babaran R**. 2013. Hydrodynamic Drag Characteristics of an Anchored Bamboo Fish Aggregating Device (Payao) Based on Model Experiments. Phil. J. Nat. Sci. 18 (1):47-54.
  - Mitsunaga Y, Endo C, Anraku K, Selorio CM Jr, **Babaran RP**. 2012. Association of early juvenile yellowfin tuna *Thunnus albacares* with a network of payaos in the Philippines. Fish Sci 78:15–22.
  - **Babaran RP**, Ishizaki M. 2011. Profile of payao (floating artificial reef or Fish attracting device) fisheries in the Philippines, pp. 49-54 in H.-J. Ceccaldi, I. Dekeyser, M. Girault, G. Stora (Eds.), Global Change: Interactions mankind-marine Environments, Springer Science, Dordrecht, Netherlands, 460 pp.
  - Mitsunaga Y, **Babaran R**, Endo C, Anraku K. 2011. Swimming behavior of juvenile yellowfin tuna (*Thunnus albacares*) around fish aggregating devices (F.A.D.S) in the Philippines, pp. 121-124 in H.-J. Ceccaldi, I. Dekeyser, M. Girault, G. Stora (Eds.), Global Change: Interactions mankind-marine Environments, Springer Science, Dordrecht, Netherlands, 460 pp.
  - **Babaran RP**, Ishizaki M. 2010. Measurement of payao vibrations, in Yamane et al. (Eds), Proceedings of 9th International Workshop METHODS FOR THE DEVELOPMENT AND EVALUATION OF MARITIME TECHNOLOGIES (DEMAT '09). (Accepted)
  - Anraku K, Yan HY, and **Babaran RP**. 2010. Acoustico-lateralis system of fish: its role in modulating fish behaviors and application in fisheries, pp. 45-64 in He, P. (Ed.), Chapter 3: Behavior of marine fishes: Capture Processes and conservation challenges, Wiley-Blackwell.
  - Watanabe K, Anraku K, Monteclaro HM, and **Babaran RP**. 2010. Morphological characteristics of lateral line in three fish species. **Aquaculture Sci**, Vol. 58 (1), pp. 25-35.
  - **Babaran R**, Endo C, Mitsunaga Y, and Anraku K. 2009. Telemetry study on juvenile yellowfin tuna around a payao in the Philippines. **Fisheries Engineering** 46 (1): 21-28.
  - **Babaran RP**, Selorio, CM Jr, Anraku K, and Matsuoka T. 2009. Comparison of the food intake and prey composition of payao-associated and free-swimming bigtooth pomfret *Brama orcinii*. **Fisheries Research** 95 (1): 132-137.
  - **Babaran RP**, Anraku K, Ishizaki M, Watanabe K, Matsuoka T, and Shirai H. 2008. Sound generated by a payao and comparison with auditory sensitivity of jack mackerel *Trachurus japonicus*. **Fisheries Science** 74 (8): 1207-1214.
  - **Babaran RP**, Anraku K, Ishizaki M, Watanabe K, Matsuoka T, and Shirai H. 2008. Comparison of auditory sensitivity of pelagic fish with the sound generated by a fish aggregating device. **Bioacoustics**, 17 (1-3): 55-57.
  - **Babaran RP**, Ishizaki M, Aguilar GD, Anraku K, Matsuoka T. 2008. Status of scientific exchange in capture fisheries under the JSPS-DOST CUP Program, **Memoirs of the Kagoshima University Faculty of Fisheries**, Special Issue, pp. 3-6.
  - **Babaran RP** and Yamane T. 2001. Effects of lunar cycle on set-net catch. **UPV J. Nat. Sci.**, 7(1&2): 86-91.
  - Ishizaki M, Nishi T, **Babaran RP**. 2001. Measurement of a model lift net. **UPV J. Nat. Sci.**, 7(1&2): 15-23.
  - Yamane T and **Babaran RP**. 2001. The diversity of catch between set-net (Fish Corral) and small type stationary trap net. **UPV J. Nat. Sci.**, 7(1&2): 179-183.
4. Other publications with various UPV co-authors
- Selorio CM Jr, **Babaran RP**, Anraku K. 2008. Catch composition and discards of stationary liftnet fishery in Panay Gulf, Philippines. **Memoirs of the Kagoshima University Faculty of Fisheries**, Special Issue, pp. 56-59.
  - Abunal EP, Ingles JA, **Babaran RP**, Padilla MA. 2003. Early developmental stages of wild fishes from San Pedro Bay, Leyte, Philippines belonging to the families Atherinidae,

- Clupeidae, Callionymidae, Mugillidae and Sciaenidae. **The Phil. Agr. Sci.**, 86 (4): 346-354.
- Monteclaro H and **Babaran R**. 2003. Behavioral response of carp to cuttlefish ink, **UPV J. Nat. Sci.**, Vol. 8, pp. 1-5.
  - **Babaran RP**, Espinosa RA, and Abalos TU. 1998. Initiating and triggering mechanisms causing harmful algal blooms. **Journal of Shellfish Research**. 17 (5): 1623-1626.
5. Project Leader, Assessment of the Effects of the oil spill on catch rates and fisheries production of Guimaras Province, August 2006 – January 2007
  6. Project Leader, Fish and Gear Interaction Studies, Integrated Management of Archipelagic Fishery Resources Program for Leyte Gulf and Dinagat Sound, Philippines, September 2001-December 2004
  7. Project Leader. Marketing, investment opportunities and socio-economic studies program in Batan Bay, Philippines (Bureau of Agricultural Research – Department of Agriculture), December 1998 to May 2000
  8. Project Leader. Dynamics of Marine Organisms Near Surface Fish Aggregating Devices (FADS) (Philippine Council for Aquatic and Marine Research and Development – Department of Science and Technology) August 1996 to January 1999
  9. Project Leader. Coastal marine habitats of Guimaras, Philippines: A rapid appraisal (Small Islands Agricultural Development Program (SMISLE)), 1995 to 1996. Published the book entitled Philippine coastal marine habitats at risk: A case study of Guimaras Island, co-edited by **Babaran RP** and Ingles JA, containing the following chapters:
    - **Babaran RP**, Ingles JA, Añasco NC, and Flores JA. 1997. Coastal waters off Guimaras Province, pp. 1-14, In: **Babaran RP** and Ingles JA (Eds.). Philippine coastal marine habitats at risk: A case study of Guimaras Island. Institute of Marine Fisheries and Oceanology; University of the Philippines Center for Integrated and Development Studies, Marine Affairs Program; and, the University of the Philippines Press. 249 pp.
    - Ingles JA, **Babaran RP**, Zamayla ME, and Martinez RT. 1997. Coral reefs of Guimaras Province, pp. 15-90, In: R. P. **Babaran** and J. A. Ingles (Eds.). Philippine coastal marine habitats at risk: A case study of Guimaras Island. Institute of Marine Fisheries and Oceanology; University of the Philippines Center for Integrated and Development Studies, Marine Affairs Program; and, the University of the Philippines Press. 249 pp.
    - **Babaran RP**, Ingles JA, Flores JA, Añasco NC, Martinez RT, and Zamayla ME. 1997. The mangrove ecosystems of Guimaras Province, pp. 91-159, In: R. P. **Babaran** and J.A. Ingles (Eds.). Philippine coastal marine habitats at risk: A case study of Guimaras Island. Institute of Marine Fisheries and Oceanology; University of the Philippines Center for Integrated and Development Studies, Marine Affairs Program; and, the University of the Philippines Press. 249 pp.
    - **Babaran RP**, Ingles JA, Zamayla ME, and Martinez RT. 1997. The seagrass ecosystems of Guimaras Province, pp. 161-200, In: R. P. **Babaran** and J.A. Ingles (Eds.). Philippine coastal marine habitats at risk: A case study of Guimaras Island. Institute of Marine Fisheries and Oceanology; University of the Philippines Center for Integrated and Development Studies, Marine Affairs Program; and, the University of the Philippines Press. 249 pp
    - **Babaran RP**, Ingles JA, and Martinez RT. 1997. Managing the coastal marine habitats of Guimaras Province, pp. 201-225, In: R. P. **Babaran** and J.A. Ingles (Eds.). Philippine coastal marine habitats at risk: A case study of Guimaras Island. Institute of Marine Fisheries and Oceanology; University of the Philippines Center for Integrated and Development Studies, Marine Affairs Program; and, the University of the Philippines Press. 249 pp..

#### D. Public Service/Extension

1. Agency Representative, Higher Education Regional Research Center Network (HERCC), Commission on Higher Education.
2. Project Consultant, Mussel Project, Cagayan State University. November 2015 – October 2016



3. Project Leader, Monitoring of the catch per unit effort of bottom set longline operating in southern Guimaras, Philippines (Year 2): Funded by Oil Spill Response Program (Oil Spill Response Program, UPV, Feb 2010 – May 2011
4. Project Leader, Monitoring of the catch per unit effort of bottom set longline operating in southern Guimaras, Philippines, Oil Spill Response Program (Oil Spill Response Program, UPV) – Year 1, Feb 2008 – January 2009
5. Consultant, Recalculation of the Philippine tuna production from the West and Central Pacific Ocean (WCPO), Growth for Equity in Mindanao (GEM) & Socskargen Federation of Fishing and Allied Industries, Inc. (SFFAI), March 15, 2007 – May 31, 2007
6. Consultant, Assessment of the impacts of payao fishing on tuna stocks, Growth for Equity in Mindanao (GEM) & Socskargen Federation of Fishing and Allied Industries, Inc. (SFFAI), April – July 2006
7. Project Leader, Operation and Management of Capture Fisheries Research, Development and Extension Network, August 2004 – October 2006
8. National Committee Member/Consultant, Biological Indicators for National Use (BINU): Philippine Report on Coastal and Marine Ecosystems. BINU Project supported by UNEP (United Nations Environmental Programme) – Global Environment Facility (GEF). Bureau of Fisheries and Aquatic Resources (BFAR), National Fisheries Research and Development Institute (NFRDI), Department of Agriculture; and Protected Areas and Wildlife Bureau (PAWB), Department of Environment and Natural Resources, Quezon City, Philippines.
9. Consultant, Long-line and Marine Turtle Bycatch Assessment for the Reducing Marine Turtle Bycatch in the Longline Fishery Project, *Kabang Kalikasan ng Pilipinas* Foundation, Inc. ("KKP"), August – September 2000
10. Consultant, Revision of Fisheries Code, World Wildlife Fund for Nature, May – August 2004
11. Program Leader, Integrated Management of Archipelagic Fishery Resources Program for Leyte Gulf and Dinagat Sound, Philippines, September 2001-December 2004
12. Project Leader, Fish and Gear Interaction Studies, Integrated Management of Archipelagic Fishery Resources Program for Leyte Gulf and Dinagat Sound, Philippines, September 2001-December 2004
13. Project Manager, Resource and Social Assessment of Sapián Bay, Philippines (Fisheries Resource Management Project-Bureau of Fisheries and Aquatic Resources), March 2000-June 2001
14. Team Leader, Resource and Ecological Assessment of Sapián Bay, Philippines (Fisheries Resource Management Project-Bureau of Fisheries and Aquatic Resources), March 2000-June 2001
15. Module Leader, Aquatic Habitats Module, Resource and Ecological Assessment of Sapián Bay, Philippines (Fisheries Resource Management Project-Bureau of Fisheries and Aquatic Resources), March 2000-June 2000
16. Project Leader. Marketing, investment opportunities and socio-economic studies program in Batán Bay, Philippines (Bureau of Agricultural Research – Department of Agriculture), December 1998 to May 2000
17. Co-Project Leader. Assessment of fisheries resources and potential of Biliran Province, Philippines (Small Islands Agricultural Development Program (SMISLE)), May 1998 to September 1998
18. Co-Project Leader. Fishery resource assessment and socio-cultural and economic study of Philippine communities of Guimaras Island (Small Islands Agricultural Development Program (SMISLE)), 1995 to 1996
19. Module Leader. Water Quality Module, Resource and Ecological Assessment of San Pedro Bay, Philippines (Bureau of Fisheries and Aquatic Resource – Department of Agriculture), 1995 to 1996
20. Module Leader. Geophysical and Water Quality Module, Resource and Ecological Assessment of Ormoc Bay, Philippines (Bureau of Fisheries and Aquatic Resource – Department of Agriculture), 1991 to 1993

#### E. Resource Generation

1. Submitted a proposal currently under consideration by DOST for **The Hub for Institutional Synergy, Integration, Sustainability, and Impact Transfer (THIS IS IT!)** for Agri-Fisheries in the Philippines Program, which is requesting for year 1 (2017) P283 M to implement five projects, including Proj 1 for upgrading facilities that will become part of THIS IS IT! Project 1 (P227 M) and four (4) case projects (total budget request is about P67 M) as learning experiences.
2. Pushed for the construction of the Regional (i.e., for ASEAN) Research Center and was granted P20 M for Phase 1 from GAA 2016; P120 M for equipment and P60 M from GAA 2017. UP system later volunteered to add about P42 M additional outlay for equipment from GAA 2018.
3. Provided the original idea for the Graduate Students' Office as a way to promote UPV as a graduate university, with students' facilities benchmarked against similar facilities of peer universities abroad; UP System allocated P15 to rehabilitate CFOS's Building 1 to accommodate about 58 seats for Miag-ao-based MS/PhD students.
4. Took part in preparing a proposal establishing a Technology Based Incubator office for Fisheries; PCAARRD eventually approved a total funding of P13.76 M for constructing the Fisheries TBI building and its operations for 2 years.
5. Sub-Program leader for Fisheries-based Food Systems Program, which had 3 projects, including Adoption of effective fishing and transportation techniques to increase survival of live demersal fish species Project. Total funds allocated was P5.518 M, part of which was used to engage two regional SUCs (Catanduanes State University (P211,050) and Cagayan State University (P211,050)) as a way to Uplift these two regional universities.
6. Partnered with Cagayan State University and Partido State University to implement ICFAS 2017, also a strategy to Uplift said university partners. As a way of showing their commitment to be UPLifted, each were asked to share the costs of holding the conference, and both complied with the suggested share of P200,000 each.
7. Got approval for an EIDR-Cycle 8 program proposal entitled "Application of molecular genetics and otolith as tools for fisheries management", which includes 4 projects. As of last Skype session meeting with then VP Giselle Concepcion, the revised budget for this proposal was about P9.56 M, which will include 3 projects to be implemented by UPV Scientists and another project to be implemented through PGC and UP Marine Science Institute.

#### F. Internationalization Initiatives

1. Got approval for an EIDR-Cycle 8 program proposal entitled "Application of molecular genetics and otolith as tools for fisheries management", which includes 4 projects. Collaborators from Tokai University (Dr. Satoshi Ishikawa and Dr. Fumihito Muto), Kagoshima University (Dr. Hiroyuki Motomura), Hokkaido University (Dr. Nozomu Muto) all committed to collaborate with members of UPV team that prepared the proposal.
2. Overall Team Leader (Philippines) and Biological Assessment Team Component Leader, Coastal Area Capability Enhancement Project in Southeast Asia. Collaborative Project of UP Visayas with Research Institute for Humanity and Nature (RIHN) (Japan), University of Tokyo, Tokyo University of Marine Science and Technology, Tokai University, Kagoshima University, Kasetsart University (Thailand), and the Southeast Asian Fisheries Development Center – Aquaculture Department Aklan State University, April 2012 – March 2017. Component 2 (Biology Assessment) of this project will continue until March 2022, and is the basis for an on-going application/invitation for Mr. Emmanuel Delloro, MS Fisheries student to be hosted by Dr. Hiroyuki Motomura, Head of Kagoshima Museum, for a period of 6 months.
3. Project Director (for the Philippines), Benefiting from Innovations in Sustainable and Equitable Management of Fisheries on Trans-boundary Tunas in the Coral Triangle and Western Pacific" (BESTTuna Program), Collaborative Project of UP Visayas with Wageningen University (Netherlands), University of the Philippines Mindanao (Philippines), Bogor Agricultural University (Indonesia), and the University of South Pacific (Fiji), January 2012 – December 2016. UPV Leveraged projects led to the publications of two PhD sandwich students who are now trying to complete their academic requirements.
4. Co-initiator (with Prof. Tatsuro Masuoka, former Dean of Kagoshima University Faculty of Fisheries) of and Facilitator within UPV for the International Linkage Post-graduate

Programme on Tropical Fisheries (Masters Program) – Starting in 2014, this program was co-implemented with Kagoshima University (Japan), Kasetsart University (Thailand), Sam Ratulangi University (Indonesia). In 2016, the University of Terangganu (Malaysia) and Nga Trang University (Vietnam) were included with duration until July 2019. Eventually led to 1) titles were given to 5 Visiting Assistant Professors, 4 Visiting Associate Professors, and 5 Visiting Professors, including the applicant (RP Babaran); 2) hostings of 4 Japanese students (2 in 2015 and 2 in 2016); and, 3) mobility of 9 Filipino students (5 in 2015, 4 in 2016).

5. Co-initiated the MOA with the International Information and Networking Centre for Intangible Cultural Heritage in the Asia-Pacific Region under the auspices of UNESCO (ICHCAP), which will again partner with UPV for the 2<sup>nd</sup> UPV International Conference on Intangible Heritage (*Patib-ong*) in 2018.