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A. Education

- 2017 : Doctor of Philosophy, Biotechnology, National Chung Hsing University, Taiwan
2013 : Master of Science, Marine Biotechnology, National Dong Hwa University, Taiwan
2008 : Bachelor of Science, Fisheries Technology, University of Riau, Indonesia

B. Professional Experience

- 2021 – current : Assistant Professor, Dept. of Marine Science, Universitas Padjadjaran, Indonesia
2022 – 2023 : Ad Interim Head of International Office, Faculty of Fisheries and Marine Science, UNPAD
2018 – 2022 : Postdoctoral Associate, Dept. of Plant Biology, Rutgers University, USA.
2017 – 2018 : Postdoctoral Associate, National Chung Hsing University, Taiwan.

C. Publications

1. **Buntora Pasaribu**, Kenneth Acosta, Bradley W. Abramson, Kelly Colt, Norlan, T. Hartwick, Yuanxue Liang, John Shanklin, Todd P. Michael, Eric Lam. (2023) Genomics of Turion from Greater Duckweed reveals its pathways for dormancy and reemergence strategy. (New phytologist).
2. Rita Rostika, Fitri Meylianawaty Pratiwy, Aulia Andhikawati, **Buntora Pasaribu**. (2023) The Addition of Fish Oil to Commercial Feed as Omega 3 Fatty Acid Source in Biofloc *Clarias* sp. Culture System. AACL Bioflux 16:55-65
3. Kenneth Acosta, Klaus J. Appenroth, Ljudmilla Borisjuk, Marvin Edelman, Uwe Heinig, Marcel Jansen, Tokitaka Oyama, **Buntora Pasaribu**, Ingo Schubert, Shawn Sorrels, Sowjanya Sree, Shuqing Xu, Todd P. Michael and Eric Lam. (2021) Return of the Lemnaceae: duckweed as a model plant system in the genomics and post-genomics era. The Plant Cell. 0:1-28.
4. **Buntora Pasaribu**^{*}, and Pei-Luen Jiang. (2021) Agrobacterium-mediated Transformation of *Symbiodinium* spp. Turkish Journal of Fisheries and Aquatic Sciences. 21:291-298 (*Corresponding author).
5. **Buntora Pasaribu**^{*}, Mike Chen, and Eric Lam. (2021) Optimizing a Protocol for Long-term Storage of Duckweed Clones as Turions: Organization of *Spirodela polyrhiza* in RDSC. Duckweed forum. (Non-peer reviewed) (*Corresponding author).
6. **Buntora Pasaribu**^{1*}, Jou-Hsuan Fu, and Pei-Luen Jiang. (2020) Identification and Characterization of Caleosin in *Cycas Revoluta* Pollen. Plant Signaling Behavior. 8:1779486. (*Corresponding author).

7. **Buntora Pasaribu**, Miki Wang, and Pei-Luen Jiang. (2017) Identification of Oleosin-like Protein in Seagrass. *Biotechnology letters*. 9: 1757-1763.
8. **Buntora Pasaribu**, Chii-Shiarng Chen, Yue Ken Liao, Pei-Luen Jiang, and Jason T.C. Tzen (2017) Identification of Caleosin and Oleosin in Oil Bodies of Pine Pollen. *Plant Physiology and Biochemistry*. 111:20-29.
9. **Pasaribu B**, Li YS, Kuo PC, Lin IP, Tew KS, Tzen JTC, Liao YK, Chen CS, and Jiang PL. (2016) The effect of temperature and nitrogen deprivation on cell morphology and physiology of *Symbiodinium*. *Oceanologia*. 58: 272-278.
10. **Buntora Pasaribu**, Tse-yu Chung, Chii-Shiarng Chen, Pei-Luen Jiang, and Jason T.C. Tzen. (2016). Identification of Steroleosin in Oil Bodies of Pine Megagametophytes. *Plant Physiology and Biochemistry*. 101: 173-181.
11. **Buntora Pasaribu**, Li-Chi Weng, I-Ping Lin, Eddie Camargo, Jason T.C. Tzen, Ching-Hsiu Tsai, Shin-Lon Ho, Mong-Rong Lin, Li-Hsueh Wang, Chii-Shiarng Chen, and Pei-Luen Jiang (2015). Morphological variability and Distict Protein Profiles of Cultured and Endosymbiotic *Symbiodinium* cells Isolated from *Aipthasia pulchella*. *Scientific Reports*. 5: 15353.
12. Li-Chi Weng[§], **Buntora Pasaribu**[§], I-Ping Lin, Ching-Hsiu Tsai, Chii-Shiarng Chen, and Pei-Luen Jiang (2014). Nitrogen Deprivation Induces Lipid Droplet Accumulation and Alters Fatty Acid Metabolism in Symbiotic Dinoflagellates Isolated from *Exaiptasia pulchella*. *Scientific Reports*. 4: 5777. (§ These authors contributed equally to this work).
13. **Buntora Pasaribu**, I-Ping Lin, Jason T. C. Tzen, Guang-Yuh Jauh, Tung-Yung Fan, Yu-Min Ju, Jing-O Cheng, Chii-Shiarng Chen, and Pei-Luen Jiang (2014) SLDP: a Novel Protein Related to Caleosin Is Associated with the Endosymbiotic *Symbiodinium* Lipid Droplets from *Euphyllia glabrescens*. *Marine Biotechnology*. DOI 10.1007/s10126-014-9574-z.
14. Jiang PL, **Pasaribu B**, and Chen CS (2014) Nitrogen- Deprivation Elevates Lipid Levels in *Symbiodinium* spp. by Lipid Droplet Accumulation: Morphological and Compositional Analyses. *PLOS ONE*. DOI:10.1371/journal.pone.0087416.
15. **Buntora Pasaribu**, Tse-yu Chung, Chii-Shiarng Chen, Song-liang Wang, Pei-Luen Jiang, and Jason T.C. Tzen (2014). Identification of Caleosin and Two Oleosin Isoforms in Oil Bodies of Pine Megagametophytes. *Plant Physiology and Biochemistry*. 82: 142-150.
16. **Buntora Pasaribu**, I-Ping Lin, Chii-Shiarng Chen, Chi-Yu Lu, and Pei-Luen Jiang (2014) Nutrient Limitation Induced Qualitative Changes of Fatty Acid and Caleosin Expression in *Auxenochlorella protothecoides*. *Biotechnology Letter*. 36:175–180.

D. Manuscripts Submitted for Publication or In-preparation (Articles and Book chapter)

1. Rita Rostika, Rifaldi Yanuar, Iskandar, Kiki Haetami, Iwang Gumilar, Lantun Paradhita Dewanti, **Buntora Pasaribu**. (2023) Various Types of Calcium-Rich Natural Feed and Influence on Sand

- Lobster Seed's (*Panulirus homarus*) Growth and Survival Rate. (*Under review*)
2. Yudi N. Ihsan, Kalysta Fellatami, Jiang Mingguo, Azimah Ismail, Tri Dewi K. Pribadi, **Buntora Pasaribu**. (2023) Isolation and identification of cadmium-reducing bacteria from contaminated coastal sediment in northern coast of Indramayu, Indonesia. (*Under review*)
 3. Lucy Omeyer, Emily M. Duncan, Neil Angelo S. Abreo, Jo Marie V. Acebes, Lea A. AngSinco-Jimenez, Sabiqah T. Anuar, Lemuel V. Aragonese; Gonzalo Araujo, Luis R. Carrasco; Marcus A.H. Chua, Muhammad R. Cordova, Lantun P. Dewanti, Emilyn Q. Espiritu, Jovanie B. Garay, Elitza S. Germanov, Jade Getliff; Eva Horcajo-Berna, Yusof S. Ibrahim, Zeehan Jaafar, Jose Isagani B. Janairo, Thanda Ko Gyi, Danielle Krebs, Cheng Ling Lim, Youna Lyons, Putu L.K. Mustika, Mei Lin Neo, Sirius Z.H. Ng, **Buntora Pasaribu**, Agamuthu Pariatamby, Cindy Peter, Lindsay Porter, Noir P. Purba, Ernesto T. Santa Cruz, Shahriar Shams, Kirsten F. Thompson, Daniel S. Torres, Rodney Westerkaken, Tuempong Wongtawan, Brendan J. Godley. (2022) Interactions between marine megafauna and plastic pollution in Southeast Asia. (*Under review*)
 4. Sheng-Wen Tseng, Jie Chong Tseng, **Buntora Pasaribu***, Pei-Luen Jiang. (2022) Fatty acid composition and major lipid body proteins in *Polymesoda erosa* oocytes. (*Under review*; *Corresponding author).
 5. Alexander M. A. Khan, Per Berggren, Ellen Barrowclift, Ankiq Taofiqorrahman, Noir P. Purba, Lantun P. Dewanti, M. Rudyansyah Ismail, **Buntora Pasaribu**. (2022) Oceanographic drivers of Mobulidae fisheries catch in the southeast Indian Ocean. (*Submitted*)
 6. Evan Ernst, Todd P. Michael, Cristian Mateo Elizalde, Kenneth Acosta, Nolan Hartwick, **Buntora Pasaribu**, Bradley Abramson, Umamaheswari Ramu, Jim Birchler, Eric Lam, Robert A. Martienssen. (2023) The genomes and epigenomes of aquatic plants (Lemnaceae) promote polyploid hybridization and clonal reproduction. (*In preparation*).
 7. Bradley W. Abramson, **Buntora Pasaribu**, Semar Petrus, Phoung T.N. Hoang, Nolan Hartwick, Megan Wang, Mariele Lensink, Kelly Colt, Sowjanya Sree, Klaus Appenroth, Ingo Schubert, Eric Lam, Todd P. Michael. (2023) The duckweed genome spans several ploidy levels. (*In preparation*).
 8. **Buntora Pasaribu***, Pei Luen Jiang, Sarah Gilbert, Hui Zhang, Jochen Weiss, Abdullah Saadi. (2023) Fabrication and application of plant-derived oleosomes in drugs and food bioactives delivery. (*In preparation*).
 9. **Buntora Pasaribu***, and Pei Luen Jiang. (2023) Ultrastructure and Morphology of *Pine eliotti* pollen. (*In preparation*; *Corresponding author)
 10. Alexander M. A. Khan, Ming-guo Jiang, Xiao-qiang Yang, Izza Mahdiana Apriliani, Noir Primadona Purba, Budy Wiryawan, Am Azbas Taurusman, **Buntora Pasaribu***, (2023) Fisheries crime threaten the sustainability of future tuna commodities in Indonesia. (*In preparation*; *Corresponding author)
 11. **Buntora Pasaribu***, Dini N Hakiki, Noir P Purba, Lantun P Dewanti, Alexander M.A Khan, Ibnu Faizal, Mega L Syamsudin, Yudi N Ihsan, Rita Rostika, Sunarto, Chia Shin Lin, Pei Luen Jiang. (2023) Lipid Droplet proteins in Endosymbiotic Algae from Coral current status and future application. (*In preparation*; *Corresponding author).
 12. Noir P. Purba, Marine K. Martasuganda, Ibnu Faizal, **Buntora Pasaribu**, Munawir B. Pratama, Ajeng Wulandari, Kemaal Sayyid, M Hafidz. (2023) Modeling the trajectory of Marine Debris Pathways and Stranded in Archipelagic countries: Selayar island and Surrounding Seas, Indonesia. (*In preparation*)
 13. Noir P Purba, Darryl A. Valino, Marine, K. Martasuganda, **Buntora Pasaribu**, Subiyanto, Erik Sugianto, Muhammad Hafidz Ilmi, Choerunnisa Febriani, Raffy Revanza Alfarez, Hind Azidane. (2023) A War on Marine Debris in Southeast Asia: Community Action on Coastal Clean-Up. (*In preparation*)

Book Chapter

1. **Buntora Pasaribu***, Noir P Purba, Alex M. A. Khan. (2023) Genetic Transformation of Fruit and Vegetable Crops: Challenges and Opportunities. AAP Publisher (*In preparation*; *Corresponding author)

E. Presentation at International Meetings

Invited speaker/Oral presentations

1. Professor Discovery to Protect Our Ocean-International Webinar, Bandung, Indonesia 2022
2. UKSW Department of Chemistry Webinar Series, Salatiga, Indonesia, 2022
3. International Conference for Fisheries and Marine Sustainability, Bandung, Indonesia, 2022.
4. Plant and Animal Genomics XXVIII, San Diego, California, USA, 2020.
5. Early Career Scientist Conference, Busan, South Korea, 2017.
6. Southeast Asia Workshop in Aquatic Microbial Ecology, Nha Trang, Vietnam, 2013.

Poster presentations

1. Investigation of Seagrass Seed Morphology and Integral Protein from Dongsha Island. The 7th International Symposium for Marine Biology and Biotechnology, National Museum of Marine Biotechnology, Taiwan. 2016
2. A Unique Steroleosin in Oil Bodies of Pine Megagametophytes. 6th International Singapore Lipid Symposium (ISLS 6) and 6th Asian Plant Lipid Symposium, Singapore. 2015
3. Morphological variability and Distict Protein Profiles of Cultured and Endosymbiotic Symbiodinium cells Isolated from *Aiphasia pulchella*. Taiwan Coral Reef Society Meeting, Kenting, Taiwan. 2015
4. Nutrient Limitation Induced the Caleosin Expression in *Auxenochlorella protothecoides*. The 5th International Symposium for Marine Biology and Biotechnology, National Museum of Marine Biotechnology, Taiwan. 2013
5. Effect of Nitrogen Deprivation in *Symbiodinium* sp. The 12th International Coral Reef Symposium, Cairns, Queensland, Australia. 2012
6. Identification and Functional Analysis of Lipid bodies in *Symbiodinium* sp. The 4th International Symposium for Marine Biology and Biotechnology, National Museum of Marine Biology and Biotechnology, Taiwan. 2012
7. Effect of Nitrogen Starvation in *Symbiodinium* sp. The 3rd International Symposium for Marine Biology and Biotechnology, National Museum of Marine Biology and Biotechnology, Taiwan. 2011

F. Grants

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| 2023 | : Technical expert members in FAO Transboundary Analysis Project- USD\$40000 |
| 2022 | : Research grant, Padjadjaran University –USD\$5000 |

- 2016 : Marine national park research grant, Taiwan-USD\$3000.
2017 : Ministry of Science and Technology (MOST) Taiwan travel grant-NTD\$700

G. Awards and Scholarship

- 2015 - 2017 : Outstanding Publication Award - National Chung Hsing University, Taiwan
2015 : Outstanding Poster Award - Taiwan Coral Reef Society Meeting, Taiwan
2013 - 2017 : National Chung Hsing University Scholarship, Taiwan
2012 : Outstanding Academic Performance - National Dong Hwa University, Taiwan
2011 - 2013 : National Dong Hwa University Scholarship, Taiwan

H. Academic societies

1. Guest editor for special issue-Plants MDPI (2023)
2. Associate editor in Indonesian Scholar Journal (2013-2014)
3. Member of Taiwan Evolutionary Genomic and Computational Biology (2013)
4. Member of International Phycological Society (2011-2012)

I. Synergetic activities

1. Thesis supervisor to 3 undergraduate students in Department of Marine Science, Universitas Padjadjaran (2022).
2. Research mentor to 2 undergraduate students in Department of Plant Biology, Rutgers University under the Aresty Research Assistant (RA) programs. Emphasis on lab safety, molecular biology methods, plant analysis techniques, data presentation (2018-2022).
3. Research mentor to (>5) undergraduates and graduate's students in Department of Biotechnology, National Formosa University. Emphasis on lab safety, aquaculture, molecular biology methods, plant transformation technique, data presentation (2017- 2018).

J. Teaching (Padjadjaran University)

Undergraduate courses:

1. Molecular biology
2. Natural product
3. Organic Chemistry
4. Marine Pollution
5. Fisheries Technology Process
6. Chemistry
7. Marine Taxonomy

Graduate courses:

1. Marine genetics and conservation

K. Professional Service

- Manuscript reviewer for: Net Journal of Agriculture Science, Turkish Journal of Fisheries and Aquatic Sciences, Frontiers in Plant Sciences.
- Adhoc Technical Expert Members on Coastal and Marine Conservation Area Biawak Island, Marine and Fisheries Office of West Java, Indonesia
- Adhoc Technical Expert Members on Coastal and Marine Conservation Area Pangandaran, Marine and Fisheries Office of West Java, Indonesia
- Technical training Program on Monitoring Methodologies of Marine Litter, Ministry of Coordinator and Investation Indonesia and Ministry of Environment Japan.

L. International Certification

- Open Water Diver Certification-Professional Association of Diving Instructor (PADI)