


## CURRICULUM VITAE

### 1. Personal data

<b>Name (full)</b>	Prof. Dr. Drs. <b>Aceng Ruyani</b> , MS. 
<b>Place/date of birth</b>	Ciamis, January 5, 1960.
<b>Addresses</b>	
<b>Home</b>	Perumahan Universitas Bengkulu, Blok 6 No.4, Bentiring Permai, Muara Bangkahulu, Bengkulu 38126, Indonesia. Phone: +62 736.7310483 Hp: +62 81539356530 E-mail: ruyaniaceng@gmail.com.
<b>Office</b>	Graduate School of Science Education [Program Pascasarjana (S2) Pendidikan IPA], Faculty of Teacher Training and Education (FKIP), Bengkulu University (UNIB), Jalan Raya Kandang Limun, Bengkulu 38371, Indonesia. Phone: +62 736.21170; Fax: +62 736.22105. E-mail: ruyani@unib.ac.id.
<b>Personal Web</b>	<a href="http://orcid.org/0000-0003-3250-0061">http://orcid.org/0000-0003-3250-0061</a> <a href="https://www.scopus.com/authid/detail.uri?authorId=6505984133">https://www.scopus.com/authid/detail.uri?authorId=6505984133</a> <a href="http://sinta2.ristekdikti.go.id/authors/detail?id=6032034&amp;view=overview">http://sinta2.ristekdikti.go.id/authors/detail?id=6032034&amp;view=overview</a> <a href="https://www.ncbi.nlm.nih.gov/pubmed/?term=Ruyani+A">https://www.ncbi.nlm.nih.gov/pubmed/?term=Ruyani+A</a>
<b>Marital status</b>	Married
<b>Wife</b>	Lilis Fauziah Ruyani, S.SoS.
<b>Children</b>	Shyfa F. Ruyani, S.Pd. Shafira R. Ruyani, S.KH Shafik A. Ruyani

### 2. Academic Record

#### 2.1. Degree program

Institution	Location	Field of study	Degree	Date of completion	
				From	To
Institut Keguruan dan Ilmu Pendidikan (IKIP Yogya; UNY)	Yogyakarta	Educational Biology	S-1 (Drs)	1979	1985
Institut Teknologi Bandung.	Bandung	Developmental Biology	S-2 (MS)	1988	1991
Institut Teknologi Bandung.	Bandung	Developmental Biology	S-3 (Dr)	1997	2003

#### 2.1. Academic thesis

Year	Title of thesis	Degree
1984	Relationship between photic stimulation and hyperventilation to reflex epilepsy on patients with epilepsy in RSUP Dr.Sardjito Yogyakarta.	S-1 (Drs)
1991	Effects of zinc sulfate on the development of Tegel TM 70 chick ( <i>Gallus gallus</i> ) embryos.	S-2 (MS)
2003	Teratogenicity of methoxyacetic acid in Swiss Webster mouse forelimb buds: A Protein Analysis Approach.	S-3 (Dr.)

#### 2.3. Non-degree program (short term training/course)

Topic of training/ course	Location	Year	Organizer
Writing textbook for university students.	Cisarua, Bogor, Indonesia.	1994	Directorate of High Education, RI.
Training management assistant. Science Education Quality Improvement Project (SEQIP)	Sawangan, Bogor, Indonesia.	2004	Gesellschaft für Technische Zusammenarbeit (GTZ) Office Jakarta, SEQIP.
Disaster Awareness in Primary School (DAPS).	Yogyakarta	2005	Gesellschaft für Technische Zusammenarbeit (GTZ) Office Jakarta, DAPS
Workshop Penelitian Berorientasi Paten (HAKI)	Palembang	2006	Universitas Sriwijaya.
Bird-flue Awareness in Primary School (BAPS).	Denpasar	2007	Gesellschaft für Technische Zusammenarbeit (GTZ) Office Jakarta, BAPS.
Indonesian Species Survival Commission Group Initiatives, August 19-20.	Royal Hotel, Bogor, West Java, Indonesia.	2013	Directorate of Biodiversity Conservation DG of Forest Protection and Nature Conservation.
Captive breeding of reptiles, mammals, and tropical fishes.	Jatisempurna, Keranggan, Cibubur, Bekasi, Jawa Barat.	2013	PT Alam Nusantara Jayatama, Jakarta.
Advanced Basic Ethics Training (Etik Dasar Lanjut, EDL) and Good Clinical Practice (GCP)	This workshop presented speakers dr. Triono Soendoro, MSc., M.Phil., Ph.D and National Health Research and Development Ethics Commission (KEPPKN) KEMENKES RI.	2019	Faculty of Medicine and Health Sciences, Bengkulu University, Bengkulu, June 20-23, 2019.
National Assessment Workshop on the Status of Biodiversity Threats, National Assessment of Turtles Status in Indonesia	Hotel Salak, Bogor, September 18-19,	2019	Indonesian Institute of Sciences (LIPI), WCS, TSA, Penggalang Herpetologi Indonesia (PHI)
In-House Training Activity for Animal Use Ethics Committee "Conducting Ethical Review of Protocols on the Care and Use of Experimental Animals"	Bengkulu University, December 21-22, 2020	2020	P3HLI and Animal Ethics Commission, Institute for Research and Community Service, Bengkulu University

#### 2.4. Several academic activities abroad

Topic of activity	Location	Year	Organizer
Practical training in experimental research on early amphibian ( <i>Xanopus laevis</i> ) development.	Uppsalaalan 8 3584 CT Utrecht, The Netherlands.	1995	Prof. Dr. AJ Durston The Hubrecht Institute, Utrecht University. The Netherlands.
Program of Academic Recharging Part C (PAR-C).	Research in the Oxford Centre for Diabetes, Endocrinology and Metabolism (OCDEM), Oxford University, UK	2009	Prof. R.V.Thakker FRS FMedSci Directorate of High Education, RI.
Endangered turtle management at Chester Zoo, UK.	Chester Zoo, Upton-by-Chester, Chester, CH2	2010	Ian Singleton, Ph.D Chester Zoo, UK.

	1EU, Chester, UK		
Herpetology Education in Rural Places & Spaces. June 10- July 20.	100 Campus Drive Elon, NC 27244 North Calorina, USA	2013	Dr. Terry Tomasek. Elon University, Carolina, Greensboro.
Manuscript preparation concerning implementation informal science education in Indonesia, June 20-25.	Hosteling International-USA Washington DC 1009 11 <sup>th</sup> Street, NW Washington, DC 20001 USA.	2014	Dr. Catherine E. Matthews The Univesrty of North Carolina, Greensboro.
Oral presentation: Using Leaf Ethanolic Extract Honje ( <i>Etlingera hemisphaerica</i> ) for Mercury Detoxification on Mice ( <i>Mus musculus</i> ) Blood Cells	International Conference on Drug Discovery and Therapy (ICDDT), Boston, USA June 16th-19th.	2014	Hasin Habib Conference, Inc One Boston Place 26th Floor Boston, MA, 02108 United States
Principles of drug development using the natural products, December 8-13	Research Center for Drug Discovery (RCDD),	2014	Prof. Jun Xu, School of Pharmaceutical Sciences, Sun Yat-Sen University.
Turtle rescue, conservation, and conservation Education, November 28-December 4.	Asia Turtle Program (ATP) of Indo-Myanmar Conservation (IMC), Ha Noi, Vietnam.	2015	Tim Mc Cormack, MSc. Asia Turtle Program (ATP) of Indo-Myanmar Conservation (IMC),
GE Life Sciences Day 2016: Connect and Collaborate	<sup>1</sup> Maritime Square #13-01 HarbourFront Center, Singapura 099253, July 22, 2016	2016	Anthony Lim, PhD GE Healthcare
Oral presentation: K-12 Education and teacher Education in Indonesia: Schools and schooling in Sumatra.	The University of North Carolina at Greensboro, in Room 401, School of Education Building. October 11, 2016.	2016	Dr. Catherine E. Matthews The Univesrty of North Carolina, Greensboro.
Endangered turtle management (Participants – Dr. Aceng Ruyani, Dr. Catherine Matthews, Mr. John Groves, and Ms. Kelly Prewett).	Turtle Survival Alliance (TSA). Cris Hagen, the director of the South Carolina facility, explained the work of the TSA.	2016	Mr. Cris Hagen A visit to the TSA in Cross, South Carolina – October, 12-14, 2016.
International Conference on Popularization of Science: The role of informal/free-choice learning in 21 <sup>st</sup> century national science education policy	4-6 October, 2017 Impiana KLCC Hotel 13 Jalan Pinang 50450 Kuala Lumpur, Malaysia	2017	Judith Woodruff Assistant Director, Administration Institute for Learning Innovation

### 3. Employment record

Year	Employment	Responsibility	Institution
1986-	Department of Biology.	Educative staff	Bengkulu University.
1992-1993	MIPA Program.	Vice-director	Bengkulu University.
1993-1994	OPF Project.	Secretary.	Bengkulu University
1996-1997	PGSM Project.	Secretary.	Bengkulu University.
2004-2006	The Center of Wildlife Conservation Study (P3SDA).	Director	Bengkulu University.
2004-2006	“Triadik” Journal of Education.	Editor-in-Chief	Bengkulu University.
2006-2008	PHK-A2 Project	Director	Bengkulu University.

2008-2009	Bird-flue Awareness in Primary School (BAPS).	Development program and consultant.	Jakarta Gesellschaft für Technische Zusammenarbeit (GTZ) Office, BAPS.
2009-2013	Graduate School of Science Education.	Director.	Bengkulu University.
2013-2017	Graduate School of Science Education.	Director.	Bengkulu University.
2017-	Sumber Belajar Ilmu Hayati (SBIH) Ruyani. Learning nature harmony from the facts.	Director/Owner	Informal Science Education (ISE)
2018-2020	Research Center for Biodiversity Conservation.	Director.	Bengkulu University.
2020-2022	Research Center for Biodiversity Conservation.	Director.	Bengkulu University.
2020-	Professor in the field of Developmental Biology	Guru besar	SK Mendikbud RI Nomor 118328/MPK/KP/2020, November 26, 2020
2021-	Management Center for Tropical and Coastal Medicine Research (CENTROMER)	An Expert Team of Developmental Biology Division,	Decree of the Rector of Bengkulu University, Nomor 393 UN30/ HK/2021, January 4, 2021

#### 4. Others

##### 4.1. List of Publication

Author	Title of publications	Year	Journal
Ruyani, A., Sudarwati S., Sutasurya, LA	Effects of zinc sulfate excess on the development of femur in the Tegel TM70 chick embryos ( <i>Gallus gallus</i> ).	1991	<i>Proceeding I T B.</i> , <b>24</b> , 1-10.
Ruyani, A., Karyadi, B., Nazib, M	Alcalosis level on epileptic patients at the mental hospital in Bengkulu.	1996	<i>Jurnal Kedokteran dan Farmasi, Medika</i> , <b>2</b> , 104-107.
Ruyani, A., Kadir, A., Yulson	The level of mercury (Hg) toxicity among persons whom worked and lived at the area of public gold mining in TNKS Muara Aman Bengkulu.	1997	<i>Jurnal Kedokteran dan Farmasi, Medika</i> , <b>11</b> : 883-887.
Ruyani, A., Sudarwati S., Sutasurya, LA., Sumarsono, S.H	Protein profile of mouse ( <i>Mus musculus</i> ) forelimb bud is changed as the effects of methoxyacetic acid (MAA) treatment.*	2001	<i>Jurnal Kedokteran dan Farmasi, Medika</i> , <b>27</b> , 363-367.
Ruyani, A., Sudarwati S., Sutasurya, LA., Sumarsono, S.H	Proteins linked with Swiss Webster mouse ( <i>Mus musculus</i> ) limb teratogenicity as the effects of methoxyacetic acid (MAA) treatment.	2001	<i>Proceeding I T B.</i> , <b>33</b> , 81-87
Ruyani, A., Sudarwati S., Sutasurya, LA., Sumarsono, S.H Gloe, T.	The laminin binding protein p40 is involved in inducing limb abnormality of mouse fetuses as the effects of methoxyacetic acid treatment.	2003	<i>Toxicological Sciences.</i> , <b>75</b> , 148-153.
Ruyani, A., Muktiningsih, Berliana, A	Using the proteomics technique in basic and applied science	2004	<i>Jurnal Kedokteran dan Farmasi, Medika</i> , <b>30</b> , 179-184

	investigation.		
Ruyani, A., Sudarwati S., Sutasurya, LA., Sumarsono, S.H., Kim, DJ., Chung, JH.	A teratoproteomics analysis: Heat shock protein 70 is up-regulated in mouse forelimb bud by methoxyacetic acid treatment.	2005	<i>Clinical. Molecular.Teratology.</i> <b>73</b> (7), 517-21.
Ruyani, A.	Integrating the Message of Turtle Conservation into Science Teaching Plan for Elementary School in Bengkulu City.	2009	Asian Turtle Conservation Network, January 2009
Ruyani, A., Karyadi, B., Kadir, A., Fitri, D., Tanjung, RY., Puspa, Y.	Alteration of Ossification Rate on Fetal Humerus and Femur Swiss Webster Mice ( <i>Mus musculus</i> ) as the Teratogenic Effects of <i>Dioscorea hispida</i> Dennst	2011	<i>Jurnal Kedokteran dan Farmasi, Medika</i> , <b>37</b> , 596-603.
Ruyani, A. Karyadi, B., Muslim, C., Sipriyadi, Suherlan.	Biomedical and Social Aspects of Spondyloepiphyseal Dysplasia Tarda Cases from Bengkulu District of Indonesia	2012	<i>International Journal of Biomedical Science</i> 8(4), 264-272, Dec 15,
Ruyani, A., Arsan, JA., Febriani S, Rini, TA., Yenita, Karyadi, B., Suherlan	Profile and Inheritance Pattern of Short Stature Male Linked with X-Chromosome in the region of Padang Guci, Bengkulu.	2014	Jurnal Kedokteran dan Farmasi, <b>Medika</b> , <b>39</b> , 1006-1013.
Ruyani, A., Sundaryono, A. Zico Fakhur Rozi, ZF., Samitra, D., Gresinta, E.	Potential Assessment of Leaf Ethanolic Honje ( <i>Etlingera hemisphaerica</i> ) in Regulating Glucose and Triglycerides on Mice ( <i>Mus musculus</i> ).	2014	International Journal of Sciences, January, 2014. Volume 3. 70-76. ( <a href="https://www.ijsciences.com/pub/article/408">https://www.ijsciences.com/pub/article/408</a> ; <a href="https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2573730">https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2573730</a> .)
Ruyani, A., Affiani, E., Sufyerny, F., Suryana, Winarni, EW., Muslim, C., Matthews, CE.	Green Teachers & Brown Rivers: How to conduct a research project with middle & high school students in local environments.	2015	<i>Green Teacher</i> , 106: 27-30. ( <a href="https://greenteacher.com/greenteacher-106-spring-2015/">https://greenteacher.com/greenteacher-106-spring-2015/</a> )
Sundaryono, A., Ruyani, A., Sari, P.	Development of The Stem of <i>Jatropha multifida</i> Linnas A New Antimalarial through Erythrocytes Test on <i>Mus musculus</i> Infected by <i>Plasmodium berghei</i>	2015	Journal of Biomedicine and Translational Research <b>01</b> ; 1 – 6 ( <a href="https://www.neliti.com/id/publications/91569/development-of-the-stem-of-jatropha-multifida-linn-as-a-new-antimalarial-through">https://www.neliti.com/id/publications/91569/development-of-the-stem-of-jatropha-multifida-linn-as-a-new-antimalarial-through</a> )
Firdaus, ML., Puspa Darti, P., Alwi, W., Eko Swistoro, S., Sundaryono, A., Ruyani, A.	Trace Metals Geochemistry of Bengkulu River and Estuary.	2015	AIP Conference Proceedings 1677, 110003 (2015); doi: 10.1063/1.4930774.
Haryanto, H., Ruyani, A. Selfianti	Mouse Sperm Agglutination with Total Protein Extracted from Endosperm Seeds of <i>Terminalia catappa</i> .	2015	PROCEEDING 1st International Seminar on "Natural Resources Biotechnology : From Local to Global"
Muslim, C., Marnis, M., Nadya, Heryanto, H. Karyadi, B., Ruyani, A	Beberapa Kejadian Cacat Bawaan Bayi Lahir Di Rumah Sakit M. Yunus Bengkulu Dalam Satu Dekade Terakhir	2016	ISBN: 978-602-72245-1-3 Prosiding Seminar Nasional from Basic Science to Comprehensive Education

			Makassar, 26 Agustus 2016
Karyadi, B, <b>Ruyani, A</b> , Susanta, A	Environmental education at ex situ Sumatran turtle conservation area.	2016	The 2nd International Seminar on Science Education (ISSE) Graduate School-Yogyakarta State University Volume 2, October 2016. P.212-217. ISSN : 2476-9533
Sundaryono A, Firdaus, ML., <b>Ruyani, A.</b> , Ekalokaria	Isolating and Testing of Jatropha multifida Extract toward Leukocytes as Chemistry Learning Module.	2016	The 2nd International Seminar on Science Education (ISSE) Graduate School-Yogyakarta State University Volume 2, October 2016 P.428-435. ISSN : 2476-9533
<b>Ruyani, A.</b> , Ningsih, EP., Suntari, Y., Juita, N., Matthews, CE.	A model for biology teacher in Bengkulu: Developing science and learning research capacity in ex situ conservation of Sumatran turtles.	2016	The 2nd International Seminar on Science Education (ISSE) Graduate School-Yogyakarta State University Volume 2, October 2016. P.511-517. ISSN : 2476-9533
<b>Ruyani, A.</b> , Muthmainnah,D., Putri, RZE., Yulisa, T., Sundaryono, A	Hepatoprotective Effect of Leaf Ethanolic Extract Etlingera hemisphaerica Blume to Recovery Mercuric Chloride Toxicity on Mice	2017	Prosiding Seminar Nasional Pascasarjana (SNP) Unsyiah 2017, April 13, 2017, Banda Aceh, Indonesia. ( <a href="http://jurnal.unsyiah.ac.id/SNP-Unsyiah/article/view/6932">http://jurnal.unsyiah.ac.id/SNP-Unsyiah/article/view/6932</a> ) A:138-147. ISSN : 2579-3101
Firdaus, M., Andriana, S., Elvinawati, W Alwi, W., Swistoro, E., A <b>Ruyani, A.</b> , Sundaryono, A.	Green synthesis of silver nanoparticles using Carica Papaya fruit extract under sunlight irradiation and their colorimetric detection of mercury ions ( <a href="http://iopscience.iop.org/article/10.1088/1742-6596/817/1/012029/meta">http://iopscience.iop.org/article/10.1088/1742-6596/817/1/012029/meta</a> )	2017	IOP Publishing, IOP Conf. Series: Journal of Physics: Conf. Series 817 (2017) 012029. Doi:10.1088/1742-6596/817/1/012029
Matthews, CE., <b>Ruyani, A.</b>	Timely Turtle Teaching, Field and classroom techniques that address threats to freshwater turtles around the world	2018	Green Teacher Issue 115, Winter 2018. Pp. 28-31. ( <a href="https://greenteacher.com/timely-turtle-teaching/">https://greenteacher.com/timely-turtle-teaching/</a> )
H Johan, H., A Suhandi, A., Wulan, AR., Widiasih, A <b>Ruyani, A.</b> , Karyadi, B., Sipriyadi	Embedding spiritual value through science learning	2018	IOP Conf. Series: Journal of Physics: Conf. Series 1013 (2018) 012083 doi :10.1088/1742-6596/1013/1/012083
Lawton, D., Parlindungan, D. Pratama, A., Aswin, P., Jundara, P., Darmawan, R., <b>Ruyani, A.</b> , Matthews, CE., Somers, A.,	Living Among Water Monitors: An Exploratory Study of an Urban Water Monitor ( <i>Varanus salvator</i> ) Population in Bengkulu, Indonesia	2018	Biawak, 12(1), pp. 42-47 © 2018 by International Varanid Interest Group
A Y Zukmadini AY, Karyadi B, Ekaputri RZ, Anggraini N, <b>Ruyani A</b> , Trisnawati W, Suterisni M.	The trend of high school students participation behavior toward conservation of aquatic ecosystem	2018	IOP Conf. Series: Journal of Physics: Conf. Series 1116 (2018) 052081. Doi:10.1088/1742-

			6596/1116/5/052081
Karyadi B, <b>Ruyani A</b> , Sipriyadi, Johan H	Impact of outdoor learning by step Introduction, Exploration, and Interpretation (IEI) based on environment on students' critical thinking	2018	IOP Conf. Series: Journal of Physics: Conf. Series 1116 (2018) 052036. Doi:10.1088/1742-6596/1116/5/052036
Ekaputri RZ, Karyadi B, Anggraini N, Zukmadini AY, <b>Ruyani A</b> , Zulistia W	Behavior, paradigm, responses and concern Students' on the outdoor learning	2018	IOP Conf. Series: Journal of Physics: Conf. Series 1116 (2018) 052018. Doi:10.1088/1742-6596/1116/5/052018
<b>Ruyani, A.</b> , Parlindungan, D., Rozi, Z.F., Samitra, D. & Karyadi, B	Implementation Effort of Informal Science Education in Bengkulu, Indonesia: A Small Learning Center for Life Sciences.	2018	International Journal of Environmental and Science Education, 13(9), 747-755. <a href="http://www.ijese.net/makale/2084.html">http://www.ijese.net/makale/2084.html</a>
<b>Ruyani, A.</b> , Rendi Putri, RZE., Jundara, P., Gresinta, E., Ansori, I., Sundaryono, A.	Protective Effect of Leaf Ethanolic Extract Etlingera hemisphaerica Blume Against Mercuric Chloride Toxicity on Blood of Mice	2019	Journal of Dietary Supplements. 16:1, 51-65, DOI: 10.1080/19390211.2018.1429516
<b>Ruyani, A.</b> , Sinta, BD., Emilia, Zulfikar, Anansyah, F., Putri, SR., Sundaryono, A	Preliminary studies on therapeutic effect of ethanolic extract of Tylophora villosa leaves against paracetamol-induced hepatotoxicity in mice	2019	Journal of Traditional and Complementary Medicine, 9 (2019) 285-296; <a href="https://doi.org/10.1016/j.jtcm.2017.08.005">https://doi.org/10.1016/j.jtcm.2017.08.005</a> .
<b>Ruyani, A.</b> , Parlindungan, D., Kartika, E., Putra, RJ., Sundaryono, A & Susanta, A	Leaf ethanolic extract of Etlingera hemisphaerica Blume alters mercuric chloride teratogenicity during the postimplantation period in <i>Mus musculus</i>	2020	Toxicol Res. (2020) 36:131-138 DOI 10.1007/s43188-019-00010-8
<b>Ruyani, A.</b> , Kartika, E., Putra, RJ., Parlindungan, D., Sundaryono, A & Susanta, A	Leaf ethanolic extract of Etlingera hemisphaerica Blume mitigates defects in fetal anatomy and endochondral ossification due to mercuric chloride during the post-implantation period in <i>Mus musculus</i>	2021	PLoS ONE 16(3): e0247467. <a href="https://doi.org/10.1371/journal.pone.0247467">https://doi.org/10.1371/journal.pone.0247467</a>
Umar, LA., Ash Shadar, SH., Sari, K., Taurina, H., Asteria, M., <b>Ruyani, A.</b>	Effect of Etlingera hemisphaerica leaves on improving spermatogenesis scoring in white rat ( <i>Rattus norvegicus</i> ) induced HgCl	2021	BIOEDUSAINS:Volume 4, Nomor 2, Desember 2021 e-ISSN: 2598-7453 <a href="https://doi.org/10.31539/bioedusains.v4i2.2169">https://doi.org/10.31539/bioedusains.v4i2.2169</a>
<b>Ruyani, A.</b> , Parlindungan, D., Patrick, PG., Matthews, CE.	Developing Collegial Relationships to Address Hurdles in Ex Situ Turtle Conservation on an Indonesian University Campus	2022	Case Studies in the Environment, 2022, pps. 1–15. electronic ISSN 2473-9510. DOI: <a href="https://doi.org/10.1525/cse.2022.1420816">https://doi.org/10.1525/cse.2022.1420816</a> .

#### 4.2. Book and Book Chapter

Author	Title of book and book chapter	Year	Publisher
<b>Ruyani, A.</b>	Selected Topics in Developmental	2009	UNIB Press (ISBN: 978-976-9431-49-3)

	Biology.		
<b>Ruyani, A.</b>	Teratoproteomics Model: Application Protein Analysis Technique on the Field of Developmental Toxicology.	2010	UNIB Press. (ISBN: 978-979-9431-45-6).
<b>Ruyani, A.</b> Matthews, CE	Chapter 20. A Comparative Look at Informal Science Education & Environmental Education in Bengkulu Province, Indonesia & North Carolina, USA,	2017	Preparing Informal Science Educators. Perspectives from Science Communication and Education By Patricia Patrick (Edited by) Springer International Publishing AG ISBN 3319503960.
Parlindungan D, <b>Ruyani A,</b>	Modul Matakuliah Anatomi Fisiologi Hewan Osifikasi Pada Mamalia	2021	Unit Penerbitan dan Publikasi (UPP) FKIP UNIB Jl. W.R. Supratman, Kandang Limun, Kota Bengkulu 38371ATelp. (0736) 21186, Fax. (0736) 21186 Laman: <a href="http://www.fkip.unib.ac.id/unit-penerbitan/E-mail: uppfkip@unib.ac.id">www.fkip.unib.ac.id/unit-penerbitan/E-mail: uppfkip@unib.ac.id</a> . ISBN 978-623-7074-84-7
<b>Ruyani A</b>	Jejaring Mitra untuk Pemanfaatan dan Konservasi Keragaman Hayati di Universitas Bengkulu/ Partner Network for Utilization and Biodiversity Conservation in Bengkulu University	2022	BAKTI UNIB UNTUK INDONESIA HEBATE-ISBN: 978-602-5830-47-1 (PDF) PP 326-342

#### 4.3. Award

Year	Award	Forum
2003	THE MEDIKA AWARD 2001, the best paper in biomedical research.	Delivery of Awards Ceremony at Shangri La Hotel, Jakarta, on July 22, 2003, given by Republic Indonesia Ministry of Health, Dr. <b>Achmad Sujudi</b> .
2011	The three best lecturers 2011, at the level of Bengkulu University.	Independence celebration of Republic Indonesia, August 17, 2011, given by rector of Bengkulu University, Prof.Ir. <b>Zainal Muktamar</b> , MSc. PhD.
2016	Lecturer of this year (2016), at the level of Faculty of Teacher Training and Education, Bengkulu University.	Announced by the Dean of Faculty of Teacher Training and Education, Bengkulu University, Prof. Dr. <b>Rambat Nur Sasongko</b> , M.Pd, on June 22, 2016.
2017	High achieving lecturer (2017) at the level of Faculty of Teacher Training and Education, Bengkulu University	Stated in Decree No. 4203 / UN30.7 / HK / 2017 dated August 21, 2017 signed by the Dean of the Faculty of Teacher Training and Education, Prof. Dr. <b>Sudarwan Danim</b> , MPd

#### 4.4. Oral presentation

Year	Title of presentation	Forum
2000	Proteins linked with Swiss Webster mouse ( <i>Mus musculus</i> ) limb teratogenicity as the effects of methoxyacetic acid (MAA) treatment.	Seminar Perhimpunan Ahli Anatomi Indonesia, Denpasar, 28-29 Juli 2000.
2007	Initiating a Freshwater Turtle Conservation Education Program for Elementary Schools in Bengkulu.	Seminar Herpetologi Indonesia, Bogor May 26-27, 2007.
2007	Cases Study of SEDT (Spondylo-Epiphysal Dysplasia Tarda) in Kedurang, South Bengkulu.	Seminar Hibah Bersaing, Jakarta, December 17-19, 2007.



2008	Growth rate of <i>Cyclemys oldhamii</i> , and <i>Cuora amboinensis</i> during a period of eight weeks to take care at the Biological Garden of Bengkulu University.	Seminar Herpetologi Indonesia, UGM, Yogyakarta May 27-28, 2008.
2009	Analisis anatomi 9vertebrae dan diskus intervetebralis bagian lumbal pada penyandang perawakan pendek (Spondylo-Epiphysal Dysplasia Tarda) di RSUD M. Yunus, Bengkulu.	Seminar Nasional Biologi, Lingkungan dan Pembelajarannya, UNY, Yogyakarta 4 Juli 2009
2010	Molecular Study of SEDT (Spondylo-Epiphysal Dysplasia Tarda) Cases in Kedurang, South Bengkulu to Obtain Genetics Diversity and Candidate Marker for Early Detection.	Seminar Hasil PAR C 2009, Millenium Hotel, Jakarta, October 5, 2010.
2012	Characterisation of mutation of the <i>SEDL (TRAPPC2)</i> gene in patients with X-linked spondyloepiphysal dysplasia tarda from a region of Indonesia.	International Conference on Biomedical Science 2012 (ICBS 2012), ITB, Bandung, February 27-28, 2012.
2012	Green teacher development, using local potential of fish mungkus ( <i>Sicyopterus cynocephalus</i> ) in South Bengkulu, Indonesia, as a source learning of biology.	National Seminar in Science Education, Sebelas Maret University, Surakarta, November 3, 2012.
2013	Potential assesments of honje ( <i>Etingera hemisphaerica</i> ) leaf extract in regulating glucose and triglyserides on mice ( <i>Mus musculus</i> ).	National Seminar in Science Education, State University of Semarang, Semarang, April 27, 2013.
2017	Developing science and learning research capacity of Bengkulu University in ex situ conservation of Sumatran freshwater and terrestrial turtles	PEER Indonesia Forum: Apply the Science. USAID, Century Park Hotel, Jakarta July 31- August 3, 2017.
2018	Public lecture at STKIP PGRI Lubuk Linggau, entitled: "Informal Science Education and Free –Choice Learning in Science"	STKIP PGRI Lubuk Linggau, Musi Rawas, South Sumatra, February 3, 2018.
2019	Keynote speaker at the Seminar on "Ethnopedagogic Based Education" at STKIP PGRI Lubuk Linggau, entitled: "Biodiversity Conservation Education Based on Ethnopedagogy"	STKIP PGRI Lubuk Linggau, Musi Rawas, South Sumatra, April 15, 2019.
2019	Keynote speaker at the Seminar on "Improving the Quality of Education in Meeting the Industrial Revolution 4.0" at IAIN Bengkulu, entitled: "Strategies to Improve the Quality of Educators in Meeting the Industrial Revolution 4.0"	IAIN Bengkulu, Bengkulu, April 26, 2019.
2019	Resource persons for Training and Guidance for Writing Articles of International Journal Reputation with Genre-Based Methods.	Graduate Program in English Education, Faculty of Teacher Training and Education, Bengkulu University, Bengkulu, July 27, 2019
2021	Application of developmental biology principles in utilization and conservation of biological diversity.	Professor's Inauguration Speech in Developmental Biology at Faculty of Teacher Training and Education, Bengkulu University, June 3, 2021
2021	We must be ready to prevent and anticipate stunting cases in Bengkulu	Seminar Nasional 100 Profesor Bicara Stanting. Setifikat Nomor: 01.00022/G1/042/VII/2021. BKKBN July 3, 2021

2021	Honje hutan ( <i>Etilingera hemesphaerica</i> Blume) alters mercuric chloride toxicity and teratogenicity in Swiss Webster ( <i>Mus musculus</i> )	#This paper is presented as a keynote speaker at the 2nd Mathematics and Science Education International Seminar "MaSEIS" 2021, Bengkulu, November 13, 2021.
2022	Potential of forest honje( <i>Etilingera hemesphaerica</i> ) to restore glucose-triglyceride metabolism and mercury detoxification	This paper was presented at a Community Service activity at MIN 1 Kapahiang, Bengkulu. March 31, 2022

#### 4.5. Research project and position

Year	Title/Topic/ Project	Position	Sponsor	Budget (IDR)
1984	Reflex epilepsy on epileptic patients in RSUP Dr. Sardjito, Yogyakarta.	Head	Institut Keguruan dan Ilmu Pendidikan (IKIP) Yogyakarta.	
1991	Effects of zinc Sulphate on chick ( <i>Gallus gallus</i> ) embryos development.	Head	Institut Teknologi Bandung.	
1992	Mercury (Hg) measurement on water and earth at the area of public gold mining in Tambang Sawah Lebong Utara, Bengkulu.	Member	Bengkulu University.	
1992	Mercury (Hg), gold (Au), cadmium (Cd), and silver (Ag) measurement on some kind of fishes at the area of public gold mining in Tambang Sawah Lebong Utara Bengkulu.	Member	Bengkulu University.	
1992	Alkalosis on epileptic patients at the mental hospital, Bengkulu.	Head	Bengkulu University.	
1993	Effect zinc sulphate on the growth rate of golden shell ( <i>Pomacea sp.</i> ).	Head	Bengkulu University.	
1994	Zinc status on members of transmigration program in Bentiring, Bengkulu.	Head	Bengkulu University.	
1996	Mercury (Hg) toxicity among persons whom worked and lived at the area of public gold mining in Kerinci Seblat National Park, Muara Aman, Bengkulu.	Head	Bengkulu University	
1997	Using the waste of fishes for accelerating the growth rate of labi-labi ( <i>Dogania suplana</i> ).	Member	Bengkulu University	
1998	Effects of methoxyacetic acid (MAA) on mechanisms of teratogenesis of MAA-induced limb malformation in Swiss Webster mice.	Head	Institut Teknologi Bandung.	
2003	Proteomics application in creating two-dimensional protein map of <i>Salmonella typhi</i> .	Member	Universitas Negeri Jakarta.	
2004	Effects of <i>Discorea hispida</i> (diosgenenin)	Head	Bengkulu	

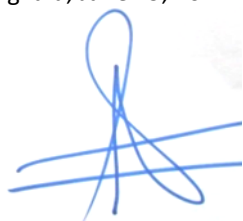
	on Swiss Wistar mice development.		University.	
2005	Toxicological study of ecstasy on Swiss Wistar mice.	Head	Bengkulu University.	
2006	Initiating a Freshwater Turtle Conservation Education Program for Elementary Schools in Bengkulu.	Head	Turtle Survival Alliance (TSA), USA.	23,400,000.00
2006	Preliminary Survey of the X-linkage Short Stature Cases in Kedurang District, South Bengkulu.	Member	Bengkulu University.	
2006	Study of lectin protein activities which were extracted from the fruit of <i>Pongamia edule</i> .	Member	Bengkulu University.	
2007	Cases Study of SEDT (Spondylo-Epiphyseal Dysplasia Tarda) in Kedurang, South Bengkulu.	Head	Hibah Bersaing. Directorate of High Education, RI.	60.000.000,00
2007	Aquatic biodiversity survey of Sundaland.	Member	ITB, Bengkulu University, The National University of Singapura.	
2008	The effects of <i>Aquilaria malaccensis</i> steroid on mice sexual activity.	Head	Hibah Unggulan Bengkulu University	40.000.000,00
2008	Teaching aid development for selected topics of developmental toxicology based on computer assisted learning (CAL).	Head	Directorate of High education, RI.	27.000.000,00
2009	The Mutational analysis of SEDT in Kedurang, South Bengkulu to find out genetic diversity among the Dwarfism for gaining their life quality.	Member	Hibah Strategis Directorate of High Education, RI	100.000.000,00
2010	Molecular Study of Spondylo-Epiphyseal Dysplasia Tarda (SEDT) Cases in Kedurang, South Bengkulu to Obtain Genetics Diversity and Candidate Marker for Early Detection.	Head	Program for Academic Recharging (PAR), Directorate of High Education, RI.	180.000.000,00
2011	Potential assessments of crude extract <i>Jatropha multifida</i> L for improving number of thrombocyte through teratogenic effects on <i>Mus musculus</i> .	Member	Hibah Unggulan. Bengkulu University.	86,467,000.00
2013	Development and manufacturing of digital image detection systems as a quantitative analysis tool.	Member	Hibah Pascasarjana. Directorate of High Education, RI.	60,000,000.00
2013 ↓ 2015	Potential assessments of crude extract <i>Etlingera hemisphaerica</i> in regulating glucose, triglycerida, lysosite, mercury detoxification, and teratogenesis on <i>Mus musculus</i> . (the three-year project).	Head	Hibah Pascasarjana. Directorate of High Education, RI.	245,250,000.00
2015	<i>In-vivo</i> bioactivity evaluation of implant calcium phosphate with excess calcium in the femur of <i>Rattus norvegicus</i> .	Member	Hibah Menristek. Ministry of research and higher education.	267.571.909,00
2015 ↓	Developing science and learning research capacity of Bengkulu University	Head	Partnerships for Enhanced	2,392.915.000.00

2018	in ex situ conservation of Sumatran freshwater and terrestrial turtles ( <a href="http://sites.nationalacademies.org/PGA/PEER/PEERscience/PGA_168049">http://sites.nationalacademies.org/PGA/PEER/PEERscience/PGA_168049</a> ).		Engagement in Research (PEER), USAID.	
2016	Morphometric comparison of <i>Coura ambionensis</i> from Aceh, Bengkulu and Enggano	Head	RBA FKIP, Bengkulu University	10,000,000.00
2016	Building Teaching Green Communities for Science Teachers in Kaur City through School Garden Development Training	Head	RBA FKIP, Bengkulu University	20,000,000.00
2016 ↓ 2018	Developing outdoor learning model based on natural environmental for elementary and high schools.	Member	Hibah Pascasarjana. Directorate of High Education, RI.	419.016.000.00
2017	Observation of the Stages of the Development of Embryos of <i>Anuras</i> in the University of Bengkulu Environment Based on Nieuwkoop and Faber Standards (1994)	Head	RBA FKIP, Bengkulu University	10,000,000.00
2017	School garden stubs based on student participation to increase the tendency to behave environmentally friendly in Madrasah Aliyah (MA) Ketahun, North Bengkulu.	Head	RBA FKIP, Bengkulu University	20,000,000.00
2018 ↓ 2019	Initiating informal science education and conservation at the campus of Bengkulu University: Herpetofauna project-based learning.	Head	Hibah Penelitian Kerjasama Luar Negeri (PKLN), Ministry of research and higher education.	355,633,000.00
2018	Development of Biology Teacher Competencies in the Postgraduate Education Program at the University of Bengkulu through Direct Experiences in Biological Research and Learning Activities	Head	RBA FKIP, Bengkulu University	14,000,000.00
2019 ↓ 2020	Detoxifying effect of ethanol extract of <i>Etlingera hemisphaerica</i> leaves on proteomic profiles of rat blood ( <i>Rattus norvegicus</i> ) exposed to mercury chloride	Head	Hibah Penelitian Dasar, Ministry of research and higher education.	573,724,666.00
2020	Saving of the Giant Soft-Shell of Asian Turtle ( <i>Pelochelys cantorii</i> , Gray, 1864) Threaten in Bengkulu	Head	Center for Conservation and Biodiversity Study, Bengkulu University	28.000.000,00
2021	Biometric and Movement Monitoring of Asian Giant Tortoise ( <i>Manuria emys</i> ) in the <i>Ex situ</i> Conservation Area at University of Bengkulu	Head	Graduate School of Science Education, Bengkulu University	12.000.000.00
		<b>Total budget (IDR)</b>		<b>4.944.977.576,00</b>

#### 4.6. Collaborator

Collaborator	Organizational affiliation	Activity/research area
Prof. Rajesh V Thakker	Oxford Centre for Diabetes, Endocrinology & Metabolism (OCDEM), University of Oxford, Churchill Hospital, Headington, OX3 7LE. 2009.	Human Genetics and Genomics.
Prof. Dr. Catherine E. Matthews	School of Education, Department of Teacher Education & Higher Education, Greensboro, NC. 2012.	Science education and Teacher Education.
Prof. Jun Xu, PhD	Research Center for Drug Discovery, School of Pharmaceutical Sciences, Sun Yat-Sen University, 132 East Circle at University City, Guangzhou, China 510006. 2014.	Natural products and pharmaceuticals sciences.
Prof. Dr. Sri Sudarwati	School of Life Sciences and Technology, Institut Teknologi Bandung. Jl. Ganesa No. 10 Bandung, Indonesia 40132.	Developmental toxicology (teratology)
Dr. Agus Sundaryono, MSi	Graduate School of Science Education, Bengkulu University, Jalan Raya Kandang Limun, Bengkulu 38371, Indonesia.	Natural products and pharmaceuticals sciences
Dr. Mirza D. Kusri	Department of Forest Resources Conservation & Ecotourism Faculty of Forestry, Bogor Agricultural University Darmaga Campus West Java – Indonesia.	Penggalang Herpetologi Indonesia
Mr. Saefudin	PT Alam Nusantara Jayatama, Bekasi, West Java, Indonesia. 2014.	Captive breeding of reptiles, mammals, and tropicals fishes.
Tim Mc Cormack, MSc.	Asia Turtle Program (ATP) of Indo-Myanmar Conservation (IMC), Ha Noi, Viet Nam. 2015.	Turtle Rescue, Conservation, and Education Center.
Prof. Dr. Shamshad Zarina	National Center for Proteomics University of Karachi, University Road, Karachi-75270. 2016.	Proteomic research.
Dr. Patricia G. Patrick	Department of Counseling, Foundations, and Leadership, College of Education and Health Professions, 4225 University Ave Columbus, GA 31907-5645	Informal Science Education

Bengkulu, June 29, 2022



**Prof. Dr. Drs. Aceng Ruyani, M.S**  
NIP 196001051986031006