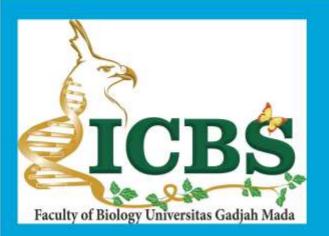


Inventing Prosperous Future through Biological Research and Tropical Biodiversity Management Proceedings of the 5th International Conference on Biological Science



Yogyakarta, Indonesia 15–16 September 2017

Editors Tuty Arisuryanti, Maryani, Zuliyati Rohmah, Lisna Hidayati and Ganies Riza Aristya

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# PREFACE: Inventing Prosperous Future through Biological Research and Tropical Biodiversity Management

The International Conference on Biological Science (ICBS) 2017 is hosted by Faculty of Biology Universitas Gadjah Mada (Yogyakarta, Indonesia) and jointly organized by Universiti Tun Hussein Onn Malaysia (UTHM). ICBS 2017 is supported by Indonesian Biology Consortium/Konsorsium Biologi Indonesia (KOBI) and Herpetological Society of Indonesia. As continuation to the tradition of international scientific dialogues on biodiversity for betterment of human life and sustainable development through our biennial ICBS since 2009, this 5<sup>th</sup> ICBS carries "Inventing prosperous future through biological research and tropical biodiversity management" as its theme. This theme is reflected in the diverse range of papers that have been presented. There are more than 170 presenters from countries Japan, Germany, Netherland, Australia, The United Kingdom, The Philippine, Malaysia, and Indonesia. This demonstrates the popularity of the ICBS for sharing ideas and findings with a truly international community.

Among the presented papers, we have selected 72 (seventy two) papers to be published in AIP Conference Proceeding, which is indexed in a number of databases, including Scopus (Elsevier), The Conference Proceedings Citation Index (part of Web of Science), Inspec, Chemical Abstracts Service (CAS), and Astrophysics Data System (ADS). We believe that these selected papers have reflected the eight topics of ICBS 2017 which are: evolution and systematics, ecology and biocoservation, structural and functional biology, biomedical and natural bioactive products, bioinformatics and computational biology, molecular biology and biotechnology, bionanotechnology and biomaterial, as well as system & synthetic biology and bioengineering.

We have invited 66 (sixty-six) experts and researchers from corresponding biological fields to referee the manuscripts. ICBS 2017 relies on the goodwill and the involvement of those expert and researchers in the corresponding fields to referee the papers that have been submitted. A complex process on the papers handling, from reviewing abstracts to the selecting manuscripts which would be published in this AIP proceeding, could not be done without kind support of those people. The honourable reviewers came from eight different countries which bring abroad set of perspective to the research area. Our sincere gratitude extended to all of reviewers for their time and effort in reviewing the manuscripts including giving advices and guidance to the authors for their paper improvement.

Finally, I want to acknowledge to ICBS 2017 Scientific and Editorial Board whose dedication and labors bringing this book into its finest state. The ICBS 2017 proceeding is credited to join efforts of a large group of people and everyone should be proud of the outcome.

Tuty Arisuryanti, Ph.D. Chief Organizing Committee

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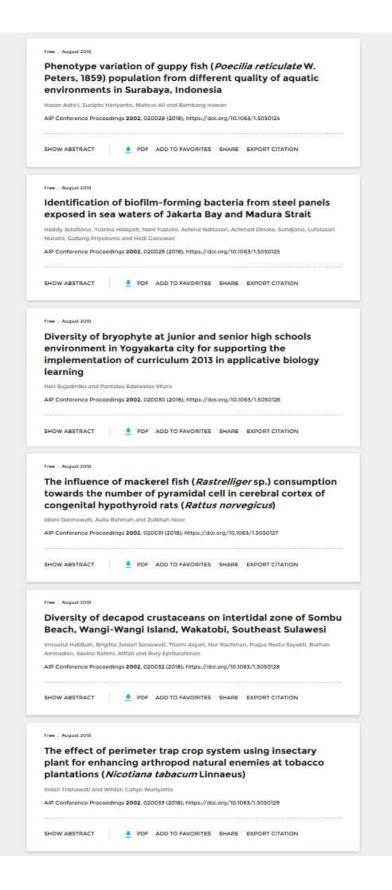
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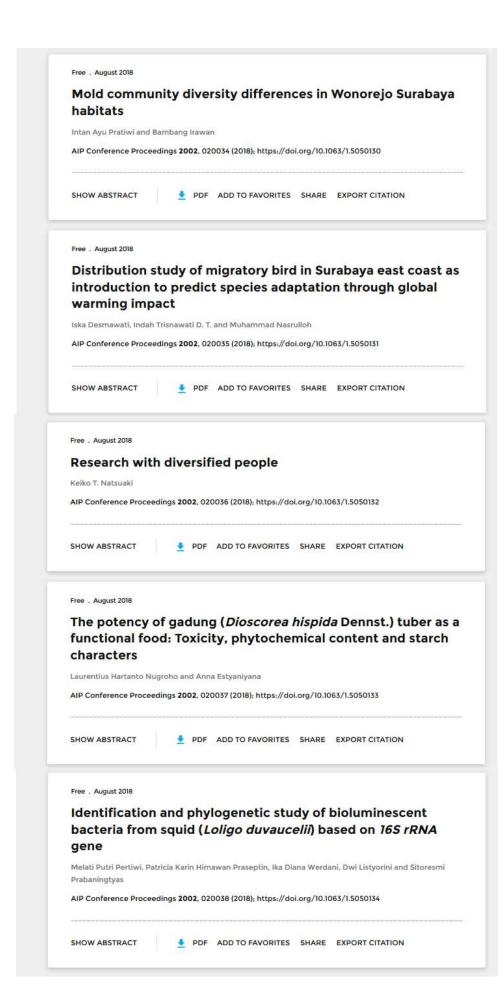
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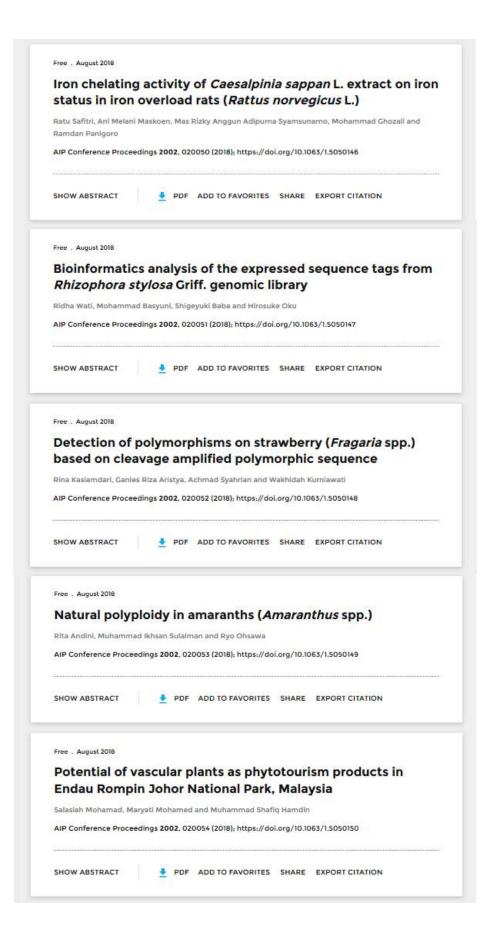
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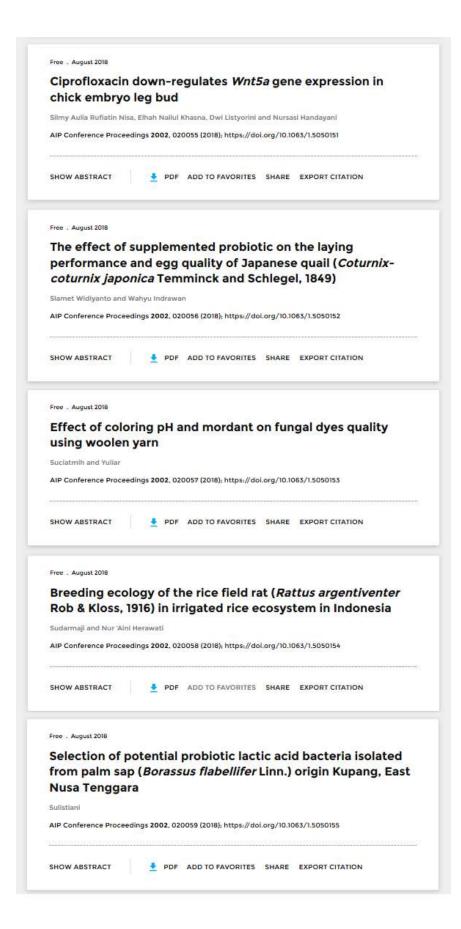


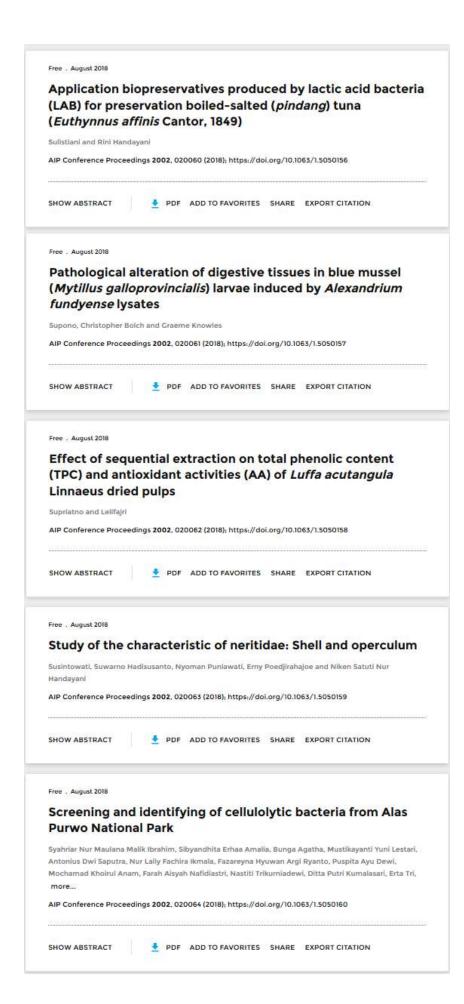


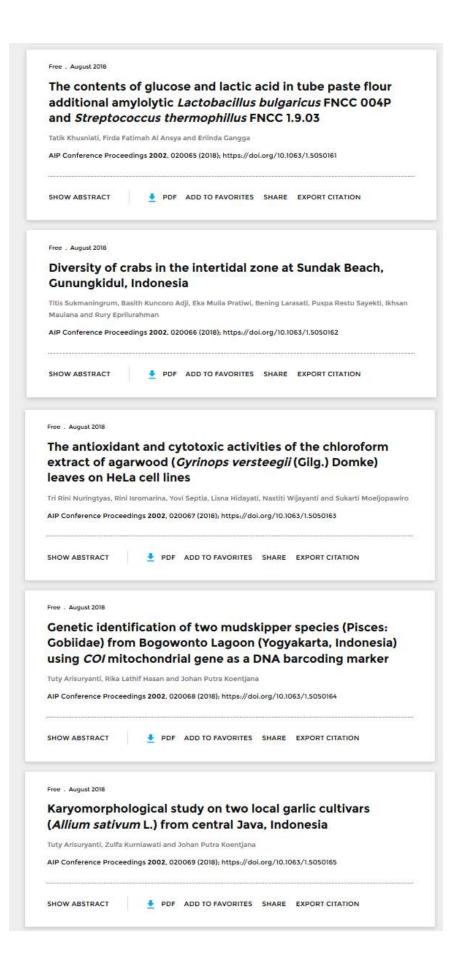
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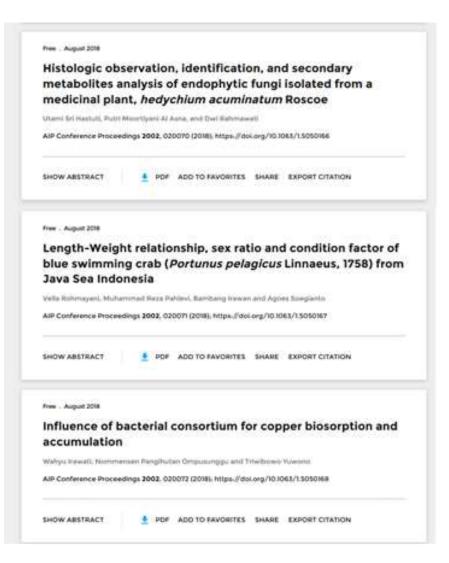
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# Phenotype variation of guppy fish (Poecilia reticulate W. Peters, 1859) population from different quality of aquatic environments in Surabaya, Indonesia

Hasan Adro'i, Sucipto Hariyanto, Mahrus Ali, and Bambang Irawan

Citation: AIP Conference Proceedings **2002**, 020028 (2018); doi: 10.1063/1.5050124 View online: https://doi.org/10.1063/1.5050124 View Table of Contents: http://aip.scitation.org/toc/apc/2002/1 Published by the American Institute of Physics

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# Phenotype Variation of Guppy Fish (*Poecilia reticulate* W. Peters, 1859) Population from Different Quality of Aquatic Environments in Surabaya, Indonesia

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Abstract. Guppy fish (*Poecilia reticulata*) is commonly found in various regions and widespread distribution throughout the world, several aquatic environments in Surabaya have been known belong to the category of water quality class III or class IV. Abiotic factors that present in the environment may influence the polymorphism in a guppy fish population. When the population faces different environmental condition, it will cause the phenotypic variation in order to adapt to the conditions in the local environment. This study aims to observe the phenotypic variation of guppy fish population living in several aquatic environments with different quality levels in Surabaya. Fish samples were taken from six different locations that have been known for their water quality based on measurement of physical and chemical parameters. The total of 120 fish samples was obtained from six locations and used for phenotypic character analysis, such as body size and body color pattern. The results of this study consist of data on phenotype structure and phenogram tree. The population kinship based on phenogram tree consists of the first group that coming from a population of the class IV location, while the second group is coming from a population of the class III location. The phenotypic character of guppy fish that have different values between sites is body length, body area, the relative area of structural color, and relative area of carotenoid color.

Keywords: aquatic environments, guppy fish, phenogram, phenotypic character

# **INTRODUCTION**

Guppy (*Poecilia reticulata*) is a freshwater fish native species from Trinidad and northeastern region of South America [1]. The male guppy is a popular commercial fish because it has many strains and more varies in color and fin shape that makes it has been widely traded [2]. Guppy fish has been used to control the vector of *Aedes aegypti* disease [3] and is effectively used as a biological control agent against malaria mosquito larvae in Kenya [4]. This guppy species exhibits phenotype character of sexual dimorphism, the male fish has a wider tail fin, a more variable body color pattern, and relatively has a smaller body size than the female fish [5]. The male guppy has a size between 25 mm to 35 mm and has conspicuous color polymorphism patterns consisting of combinations of black, white, red-orange, yellow, green, iridescent spots, lines, and speckles. Males have a gonopodium; a slender, modified anal fin used as an intromittent organ, whereas the anal fin of females is rounded. Females are uniform silver grey and are larger and deeper bodies than males (40 mm to 60 mm). Juvenile fish resemble females and are independent from birth [6].

In Indonesia, guppy fish was first introduced as a biological control agent and has grown in wild environment through natural reproduction [7]. In Surabaya, the guppy fish which are abundant, can be found in most of the freshwater habitat in the city. The increase in human population has negative impacts on the environment, one of which is aquatic environment pollution due to both domestic and industrial waste generated by various human activities. That various kind of waste has a major influence on water quality changes in Surabaya [8]. Based on The Local Regulation of Surabaya No. 2 in 2004 about water quality management and water pollution control, the aquatic environments in Surabaya has been determined based on different quality levels which is consist of four different classes according to some physical, chemical, and microbiological parameters. This regulation has also

Inventing Prosperous Future through Biological Research and Tropical Biodiversity Management AIP Conf. Proc. 2002, 020028-1–020028-10; https://doi.org/10.1063/1.5050124 Published by AIP Publishing. 978-0-7354-1718-2/\$30.00 determined each class of several aquatic environments in Surabaya, which all consist of water quality class III, and class IV [9], and this condition was observed every year [8].

Guppy fish to be found in various regions and it has widespread distribution throughout the world. Some populations to be found inhabit in environments with varying conditions [10]. Various factors affect this fish species have a widespread distribution such as very high reproduction rate [11], have an ability to tolerate the contaminations in the environment [12], and have phenotypic plasticity [13]. When this fish has adapted in the new environments that have very different conditions from the origin environments, then this fish could present the divergence of several phenotypic characters in male fish from their original fish population [14].

This fish has a capability to adapt even in contaminated water conditions [15], but only a handful of study about the phenotypic character variation of guppy fish that exists in the introduced location. In Indonesia, the guppy fish that are living in the wild environments is rarely studied. Rahayu *et al.* [16] conducted the previous study about guppy fish in the wild habitat. Their study investigated the associations between trace metals in sediment, water, and guppy from urban streams of Semarang, Indonesia. Some abiotic factors that present in the environment such as turbidity or nutrient availability may influence the color polymorphism in introduced population of guppy fish [17]. Polymorphism occurs when two or more different phenotypic character present in one population of the same species [18]. When the population faces different environmental condition, it will cause the phenotypic variation due to adaptation in the new local environment [19].

This study aims to observe the phenotypic variation of guppy fish populations inhabit several aquatic environments with different quality levels in Surabaya. Furthermore, this study is to gain the new information and knowledge about the morphological relationship among guppy fish populations inhabit in several aquatic environments in Surabaya based on phenotypic characters and it could be as a useful data and developed for the future study.

# **MATERIALS AND METHODS**

# **Study Area and Fish Sampling**

Guppy fish have collected from Jan to Feb 2017 at six different sites of aquatic environmental streams in Surabaya, East Java, Indonesia (Table 1). The three sites were Kaldami (KD), Kenjeran (KE), and Kebonagung (KA), all have the water quality class III. Whereas the three other sites were Pegirian (PE), Wonorejo (WO), and Darmo (DA), all have the water quality class IV (Table 1 and Fig. 1). These sites selected because they both have different water quality levels (class III and IV) in Surabaya and present the population of guppy fish based on observer's exploratory sampling.

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TADLE 1 I

Sampling Site (Stream Name)	Site Code	Coord	inates	Water Quality Class
Kalidami	KD	7°16'36.1"S	112°45'44.9"E	III
Kenjeran	KE	7°15'10.1"S	112°47'42.2"E	III
Kebonagung	KA	7°19'53.4"S	112°46'35.7"E	III
Pegirian	PE	7°14'16.7"S	112°44'40.7"E	IV
Wonorejo	WO	7°18'44.1"S	112°46'50.3"E	IV
Darmo	DA	7°17'24.0"S	112°44'32.0"E	IV

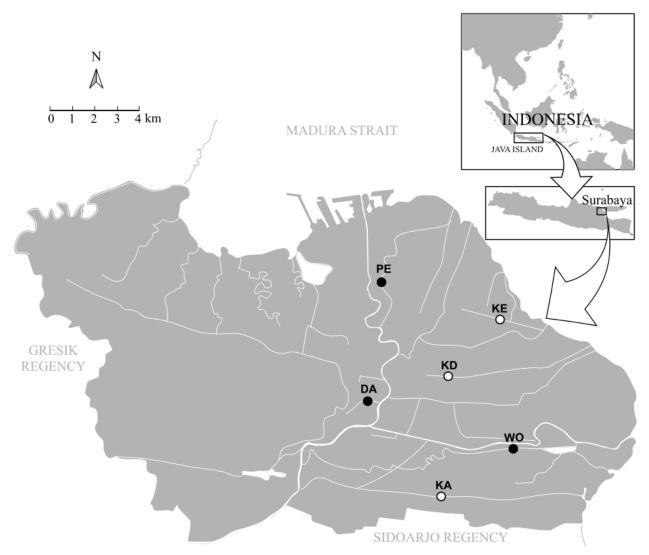


FIGURE 1. The sampling site locations of guppy fish in Surabaya. The white circles are the water quality class III, while the black circles are the water quality class IV locations. The white color patterns on the map are the water bodies

Before the fish samples were collected, we analyzed the physicochemical parameters of aquatic environment quality using the water quality measurement instruments. The parameters that samples measured directly on the site were temperature, pH, dissolved oxygen (DO), salinity, and water flow velocity. As for, the parameters that were measured after the water samples collected and analyzed in the laboratory were biochemical oxygen demand (BOD), chemical oxygen demand (COD), and total suspended solids (TSS). The parameters of aquatic environment quality were measured once in a month from Jan 2017 until Mar 2017 in each sampling site. Some parameters, such as temperature, TSS, pH, BOD, COD, and DO were measured based on the range value criteria arranged by The Local Regulation of Surabaya No. 2 in 2004, which has four different classes of water quality categories (Table 2). Class I is the water intended for use for drinking and other purposes that require the same water quality as those uses; class III, water intended for use in facilities of water recreation, cultivation of freshwater and brackish fish, livestock, irrigation, and other purposes that require the same water quality as those uses; and class IV, water intended for irrigation and other purposes that require the same water quality as those uses [9].

Demonstern	Unit	Water Quality Class						
Parameter	Unit	Ι	II	III	IV			
Physical								
Temperature	°C	Deviation 3	Deviation 3	Deviation 3	Deviation 3			
TSS	mg · L <sup>-1</sup>	50	50	400	400			
Inorganic Chemical								
pН	-	6 to 9	6 to 9	6 to 9	5 to 9			
BOD	mg · L <sup>-1</sup>	2	3	6	12			
COD	mg · L <sup>-1</sup>	10	25	50	100			
DO	mg · L <sup>-1</sup>	6	4	3	0			

**TABLE 2.** The range values of water quality class categories arrangedby The Local Regulation of Surabaya No. 2 in 2004 [9].

Description: The above value is the maximum value, except for pH and DO. As for pH is a range value that should not be less or more of the listed value. The value of DO is the minimum value. The temperature deviation is in the natural condition.

# **Phenotypic Characters Analysis**

Using a hand-net, a number of 20 males to 30 males of guppy fish were collected in each site. Fish were transport immediately to the Laboratory of Biosystematics, Faculty of Science and Technology, Universitas Airlangga Surabaya. Then they were anesthetized with a dose of eugenol ( $C_{10}H_{12}O_2$ ). The fish then were processed following the methods of [20]. Lateral images of the left side of each fish photographed using a digital camera placed at a standard distance with the aid of a tripod. Each sample was placed on a white background with millimetric scale, and color standards (Red, Orange, Yellow, Blue, Green, White and Black). The phenotypic characters of male guppy fish such as, body length (standard length), body area (excluding the fins and tail), tail length, and the area and the number of each color spot (excluding the fins and tail) (Fig. 2) were measured using software Image J (version 1.50e). All fish sample images were analyzed by a similar person.

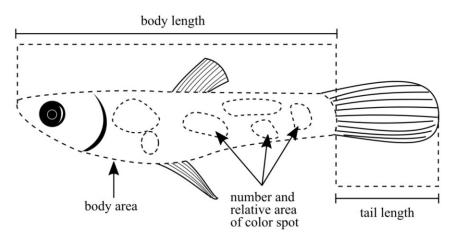


FIGURE 2. The phenotypic characters of male guppy fish which measured in this study

To reduce the number of variables for analysis, the color patterns were grouped into biologically relevant categories. These groups have different physiological bases, structural bases, functional interpretations, and selective relevance [21–26]. Carotenoid colors consisted of the sum of orange and yellow spots, although note that pigments other than carotenoids also contribute to these spots [23]. Structural colors are colors that are iridescent and have higher levels of reflection and consisted of the sum of blue, violet, and silver spots [22]. Melanic colors consisted of the sum of black and fuzzy black spots.

# **Data Analysis**

Software SPSS version 20 was used to build a phenogram tree based on all phenotypic character value using Ward Linkage method. The statistical analysis from the phenotypic characters of guppy fish such as, body size and color pattern of each sample was analyzed using Principal Component Analysis (PCA) to find the factors that formed among different guppy fish populations. The one-way Analysis of Variance (ANOVA) was performed to know which of each character has a different value among different populations from each site following the posthoc test using the Bonferroni test. This test was for the data which have homogenous variance whereas the Gomes-Howell test was used for the non-homogenous data with a significant value 0.05 ( $\alpha = 0.05$ ).

# **RESULTS AND DISCUSSION**

A number of 20 male guppy fish samples which the body length between 12.0280 mm and 17.8470 mm and the tail length between 3.0280 mm and 5.8270 mm were measured and used for the further analysis with the other phenotypic characters (Table 3).

	<b>TABLE 3.</b> Phenotypic character data of guppy fish from each site in Surabaya. The data represent mean $\pm$ standard deviation (SD) and samples sizes (N) estimated across sites.								
Site	Site         N         Body Length (mm)         Body Area (mm <sup>2</sup> )         Relative Area of (mm <sup>2</sup> )								
Site	1	Dody Length (mm)	body Area (iiiii )	<b>Carotenoid</b> Color	Structural Color				
KD	20	$13.6612 \pm 0.9141$	$41.8963 \pm 5.1870$	$0.0357 \pm 0.0198$	$0.1040 \pm 0.0143$				
KE	20	$13.8019 \pm 1.0294$	$37.6103 \pm 6.3479$	$0.0668 \pm 0.0192$	$0.0978 \pm 0.0185$				
KA	20	$13.9310 \pm 0.8280$	$37.8840 \pm 2.1361$	$0.0311 \pm 0.0140$	$0.0860 \pm 0.0246$				
PE	20	$16.2201 \pm 0.7765$	$49.9349 \pm 1.2514$	$0.0909 \pm 0.0219$	$0.1641 \pm 0.0146$				
WO	20	$16.5912 \pm 0.6090$	$49.9516 \pm 1.0159$	$0.0959 \pm 0.0232$	$0.1455 \pm 0.0253$				
DA	20	$16.7658 \pm 0.6658$	$49.9500 \pm 1.2678$	$0.0834 \pm 0.0166$	$0.1526 \pm 0.0300$				

# **Aquatic Environment Quality**

Overall, most of the measurement values have met the criteria of the freshwater quality class category in Surabaya based on Table 1 and Table 2. From both tables, the location of KD, KE, and KA belonged to the water quality Class III, while the location of PE, WO, and DA belonged to the water quality Class IV (Table 4). Guppy is a fish that has excellent adaptability in broad environmental conditions and they are easy to adapt even in the high-contaminated water conditions [15, 27]. Therefore, in this study, the guppy fish easily found in the aquatic environment, which has either class III or class IV water quality in Surabaya.

<b>TABLE 4.</b> Phenotypic character data of guppy fish from each site in Surabaya. The data represent mean $\pm$ standard deviation	
(SD) and samples sizes (N) estimated across sites.	

Site	Month	рН	DO (mg · L <sup>-1</sup> )	BOD (mg · L <sup>-1</sup> )	COD (mg · L <sup>-1</sup> )	Turbidity (NTU)	Water Velocity (mph)	Salinity (‰)	Temperature (°C)	TSS (mg · L <sup>-1</sup> )
	Jan	7.90	5.67	5.21	11.21	9.50	8.00	0.00	29.17	173.00
KD	Feb	7.50	3.83	5.67	12.65	9.54	1.67	0.00	29.00	170.00
	Mar	7.47	5.47	6.65	11.92	10.21	0.33	0.00	29.00	270.33
Accura	acy (%)	100	100	66.7	100		-	-	100	100
	Jan	7.60	5.73	5.73	9.43	10.34	0.00	0.00	28.83	148.33
KE	Feb	7.47	5.13	7.64	8.76	10.32	0.00	0.00	29.17	258.00
	Mar	7.50	5.73	5.50	9.65	10.30	0.00	0.00	29.00	267.00
Accura	acy (%)	100	100	<b>66.</b> 7	100		-	-	100	100
	Jan	7.43	3.43	6.65	11.34	10.23	0.04	0.00	28.57	198.67
KA	Feb	7.43	3.97	4.76	11.65	9.58	10.00	0.00	28.67	178.67
	Mar	7.50	5.10	8.76	11.65	10.25	9.00	0.00	29.00	102.67

Continued on next page

Site	Month	рН	DO (mg · L <sup>-1</sup> )	BOD (mg · L <sup>-1</sup> )	COD (mg · L <sup>-1</sup> )	Turbidity (NTU)	Water Velocity (mph)	Salinity (‰)	Temperature (°C)	TSS (mg · L <sup>-1</sup> )
Accura	acy (%)	100	100	33.2	100	-	-	-	100	100
	Jan	7.57	2.60	10.54	15.74	14.93	2.33	1.33	29.00	341.00
PE	Feb	7.63	2.13	10.54	16.76	18.43	0.10	1.00	29.00	305.00
	Mar	7.53	2.07	8.67	15.20	15.44	0.00	0.00	29.00	351.00
Accura	acy (%)	100	100	100	100	-	-	-	100	100
	Jan	7.40	2.73	11.25	18.70	15.46	0.00	0.00	29.67	332.00
WO	Feb	7.43	2.80	6.87	17.65	17.96	0.15	0.00	29.33	342.67
	Mar	7.50	2.50	8.23	18.64	17.65	0.00	0.00	29.50	346.67
Accura	acy (%)	100	100	100	100	-	-	-	100	100
	Jan	7.53	2.20	10.22	20.31	16.50	0.00	0.00	29.00	341.33
DA	Feb	7.50	2.03	8.65	15.66	16.54	0.09	0.00	29.40	371.00
	Mar	7.50	2.20	10.66	16.47	17.01	0.00	0.00	29.17	311.33
Accura	acy (%)	100	100	100	100	-	-	-	100	100

### Table 4. Continued

# **Phenotypic Characters**

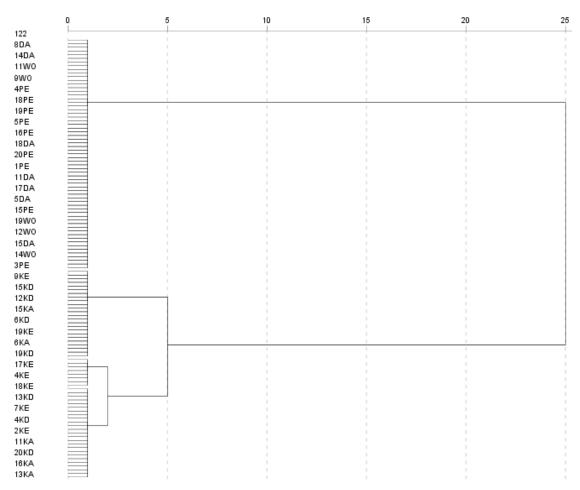


FIGURE 3. The phenogram tree of guppy fish samples from different sampling site in Surabaya streams

Based on the phenogram tree that has established there are two main branches with a value of difference is 25. The first branch is filled with the samples originating from the location with the water quality class IV (PE WO, and DA) which have a very close similarity (value of difference is 0). The second branch is filled with all the samples originating from water quality class III location (KD KE and KA) with the more varied value.

The PCA test reveals that there are only four phenotypic characters have influence (meet the statistical value), among different sites, they are body length, body area, the relative area of structural color, and relative area of carotenoid color. However, the characters of tail length, the relative area of melanic color, and spot number of each color do not correlate with location differences. The two main factors have been formed is factor 1 consists of body area, body length, and relative area of structural color. Therefore it named with "body size and structural color factor," while factor 2 consist of relative area of carotenoid color named the "carotenoid color size factor" (Fig. 4).

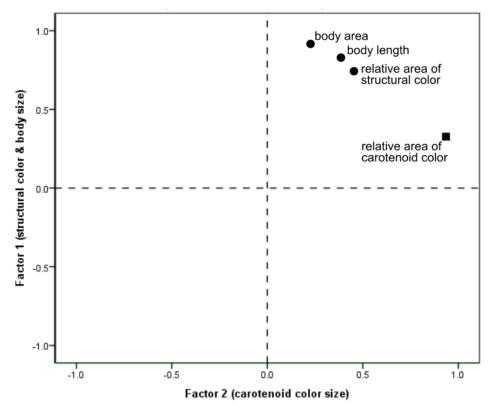


FIGURE 4. Factors that formed through PCA analysis

The PCA test reveals that there are only four phenotypic characters (they are body length, body area, relative area of structural color, and relative area of carotenoid color), have influence among different sites. However, the characters of tail length, relative area of melanic color, and spot number of each color do not correlate with location differences. The two main factors have been formed is factor 1 consists of body area, body length, and relative area of structural color. Therefore, it named with "body size and structural color factor," while factor 2 consist of relative area of carotenoid color size factor" (Fig. 4).

TABLE 5. The results of the one way ANOVA ( $\alpha = 0.05$ ) of four phenotypic characters.

Df	F	P					
2.294	68.151	< 0.001					
2.294	59.068	< 0.001					
2.294	41.977	< 0.001					
2.294	44.636	< 0.001					
	2.294 2.294 2.294	Df         F           2.294         68.151           2.294         59.068           2.294         41.977					

The result of the one-way ANOVA test of the four phenotypic characters reveals a significance value less than 0.001 (p < 0.05) among the four sampling sites in this study (Table 5). This shows that there are differences in value from this four characters among the sampling sites used in this study

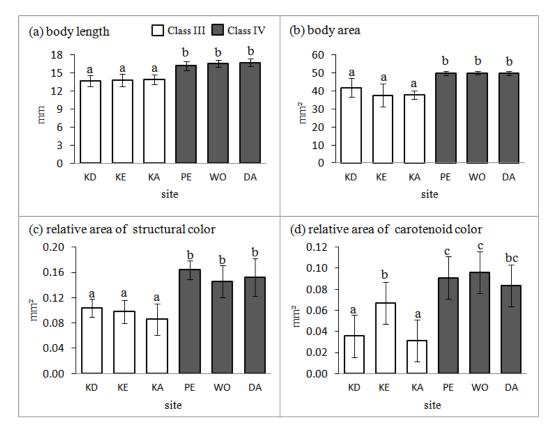


FIGURE 5. Comparison of the size of phenotypic character among male guppy fish population in each location with different water quality classes

Several studies about the guppy showed male fish has a polymorphism of phenotypic character resulting from its adaptation either in aquatic environments with different abiotic factor conditions [17, 20, 28] or in aquatic environments with different biotic factors condition, such as the presence of predatory or parasitic organisms [1, 14, 29].

The three character of body length, body area, and relative area of structural color have significant mean value differences between locations with different water quality classes but not significant in one same water quality class (Fig. 5a, Fig. 5b, and Fig. 5c). The results of a study by [13] showed that guppy fish populations, which in the higher predation regime environment, have a smaller body size in terms of both body length and area. Whereas guppies which found in the lower predation regime environment they present the larger body size. The aquatic environments, which belong to the water quality class III, have some parameters to support the life of more diverse organisms including the predatory species for guppy fish (Table 2 and Table 4) [9].

The results of this study showed that guppy fish which inhabit in the site with the water quality class III have a smaller body size than those living in the other site with the water quality class IV (Fig. 1a and Fig. 1b). The aquatic environments, which have high nutrient content could accelerate the growth of guppy fish. Therefore, the guppy fish living in this site has the larger body size [17]. The higher organic materials in class IV sites which are indicated by high levels of BOD values (Table 4) could be used as a source of nutrients for guppy fish growth.

In [17] reported that the presence of color polymorphism in male guppy fish is possible because of the presence of abiotic environmental factors such as turbidity or availability of nutrients. Several other studies have suggested that some environmental factors, which may affect the structural color patterns, were water turbidity levels and the levels of predatory organism [30]. The guppy fish which original from the class IV sites (PE, WO, and DA) that have higher water turbidity levels (Table 4) present the higher value of relative area of structural color than the

guppy fish from the class III sites (KD, KE, and KA) which have lower water turbidity levels (Fig. 5c). The male guppy which lived in the darker aquatic environments (have higher turbidity levels) possess higher levels of structural color resulting from the evolutionary processes to attract the female vision in darker conditions [30]. The male guppy, which inhabits in a lower predation regime in Trinidad, present a higher level of structural color, but the fish which inhabit in the higher predation regime, present a lower structural color [31]. Therefore, the guppy fish from the class III sites less display the structural color character in order to avoid the detection from more predator organisms.

The KD and KA sites, which belong to the water quality class III, have a significant difference in mean value of relative area of carotenoid color from the PE, WO, and DA sites, which belong to the water quality class IV. However, the KE site, which also belongs to the water quality class III, has no difference in mean value from the three locations (PE WO and DA) which is the water quality class IV category (Fig. 5d). This is in accordance with the study conducted by [14] that carotenoid color characters have no differences between sites because the carotenoid color tends to be maintained compared to the structural color in order to attract the female fish preference in the mating process in every different type of environmental conditions.

# **CONCLUSION**

The morphological relationship of guppy fish population in some aquatic environments in Surabaya based on phenotypic characters consists of two main groups. The first group is a guppy population originating from the location with the water quality class IV, whereas the second group is the guppy population originating from the location with the water quality class III. The phenotypic characters of male guppy fish that have different values between aquatic environment sites in Surabaya are body length, body area, relative area of structural color, and relative area of carotenoid color. The three characters that have different values based from differences of the water quality of aquatic environments (class III and class IV) are the body length, body area, and the relative area of structural color. As for the relative area of carotenoid color has no different values between the two different aquatic environments in water quality both class III and class IV.

### ACKNOWLEDGMENTS

Authors are thankful to Mr. Setyanto as a laboratory assistant at Laboratory of Biosystematics, and Mr. Suwarni as a laboratory assistant in Department of Biology, Faculty of Science and Technology, Universitas Airlangga, Surabaya who is helping to operate the turbidity meter instrument to measure the water turbidity levels.

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