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# ABSTRACT

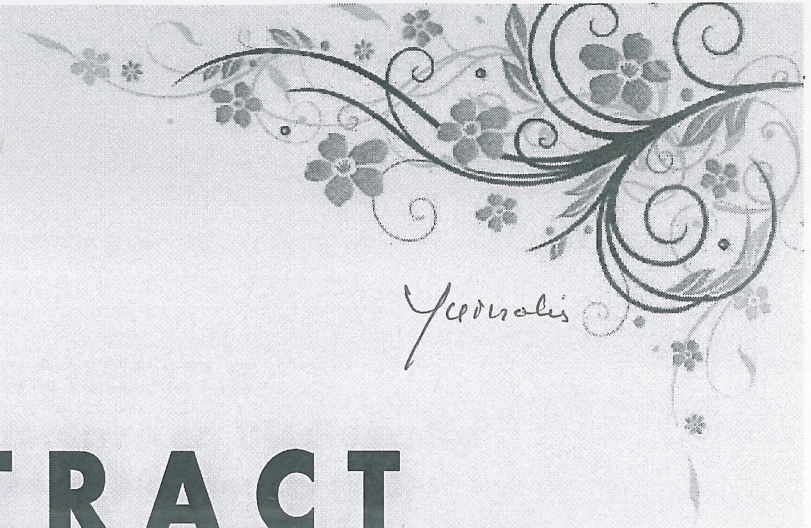
## INTERNATIONAL CONFERENCE ON BIODIVERSITY

**SOCIETY FOR INDONESIAN BIODIVERSITY**

**Bandung, 28 May 2016**

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# ABSTRACT

## INTERNATIONAL CONFERENCE ON BIODIVERSITY

**SOCIETY FOR INDONESIAN BIODIVERSITY**

**Bandung, 28 May 2016**

### THEME:

**Indonesian Biodiversity for Supporting Sustainable  
Development Goals**

#### SECRETARIAT ADDRESS

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**TIME SCHEDULE**  
**International Conference on Biodiversity**  
**Society for Indonesian Biodiversity (SIB)**  
**Bandung, Indonesia, 28 May 2016**

<b>TIME</b>	<b>ACTIVITIES</b>	<b>PERSON IN CHARGE</b>	<b>SITE</b>
<b>May 28, 2016</b>			
07.00-08.00	<b>Registration</b>	Committee	Lobby
08.00-08.30	<b>Unpad student's performance</b>	Committee	R1
08.30-08.40	<b>Speech of the Committee</b>	Chairman of the committee	R1
08.40-08.50	<b>Opening speech</b>	Rector of Unpad Bandung	R1
08.50-09.00	<b>Photo session and coffee break</b>	Committee	R1, Lobby
09.00-10.30	<b>Panel 1</b> Prof. Dr. Yayat Dhahiyat Prof. Dr. Ngurah N. Wiadnyana	Moderator	R1
10.30-12.00	<b>Panel 2</b> Dr. Carsten Thoms Dr. Ingrid Öborn	Moderator	R1
12.00-13.00	<b>Rest, prayer, lunch &amp; Poster session</b>	Committee	Lobby
13.00-14.00	<b>Parallel presentation I</b> Group 1: AO-01 to AO-07 Group 2: AO-08 to AO-14 Group 3: AO-15 to AO-21 Group 4: AO-22 to AO-24 & BO-01 to BO-04 Group 5: BO-05 to BO-11 Group 6: BO-12 to BO-18	Moderator Moderator Moderator Moderator Moderator Moderator	R1 R2 R3 R4 ✓ R5 R6
14.00-15.00	<b>Parallel presentation II</b> Group 7: BO-19 to BO-25 Group 8: BO-26 to BO-32 Group 9: BO-33 to BO-39 Group 10: BO-40 to BO-46 Group 11: BO-47 to BO-53 Group 12: BO-54 to BO-55 & CO-01 to CO-05	Moderator Moderator Moderator Moderator Moderator Moderator	R1 R2 R3 R4 R5 R6
15.00-15.15	<b>Coffee break, prayer</b>	Moderator	Lobby
15.15-16.15	<b>Parallel presentation III</b> Group 13: CO-06 to CO-12 Group 14: CO-13 to CO-17 & DO-01 to DO-02 Group 15: DO-03 to DO-08 & O-01 Group 16: EO-02 to EO-08 Group 17: EO-09 to EO-16 Group 18: EO-17 to EO-24	Moderator Moderator Moderator Moderator Moderator Moderator	R1 R2 R3 R4 R5 R6
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**Bandung, Indonesia, 28 May 2016**

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and subpopulation. Mixing can occur in a certain area giving rise to the issue of tracing difficulty of authentic species. Molecular identification can facilitate to resolve the issue. The purpose of this research is to identify the molecular characteristics of the sperm whale (*P. macrocephalus*) based on genetic marker Cytochrome Oxidase subunit I (COI). Sequence analysis based on BLASTn confirmed three samples of sperm whale are similar to *Physeter catodon*. The sequences were then aligned using software MEGA 5.2 by including out group, such as *Balaena mysticetus* and *Balaenoptera physalus*. There were 65 specific nucleotides of *P. macrocephalus* that differ the species from other group. Here, COI gene was able to validate the species of sperm whales and it can be used as a strong molecular marker for *P. macrocephalus*.

COI gene, molecular identification, *Physeter macrocephalus*

### AO-22

#### New polymorphisms in the GH gene and their association with body weight in Pitalah duck

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The objective of this study was to assess the association of polymorphisms in Growth Hormon (GH) genes with growth in Pitalah ducks. The polymorphism of the ducks GH gene from promoter region into exon 3 was observed by polymerase chain reaction and DNA sequencing methods. Fifty duck were genotyped and allele frequencies were determined. The effects GH polymorphisms on body weight in 1 and two week were analyzed. Twenty one mutations were detected in the Pitalah duck GH gene. Mutation GÀA was detected at position-142, 1155, 1117, 1423, and 1786. Mutation CÀT was detected at position-62, 506, and 308. Mutation AÀG was detected at position 160, 264, 293, 1245, and 2542. Mutation TÀG was detected at position 250 and mutation TTÀ AA was detected at position 350. Mutation CÀ T was detected at position 506, and 1308. Mutation GÀT was detected at position 775 and mutation TÀC was detected at position 1353, 1424, and 2973. All polymorphism were polymorphics except polymorphism TÀ G at position 250 which was monomorphics. No significant association, however, was detected between any of the marker genotype and body weight at one and two weeks. Results from this study provide evidence that GH gene is good polymorphic source and can be used for association with performance

Growth hormone gene, Pitalah duck, polymorphism, SNPs

### AO-23

#### Genetic diversity of spiny lobsters (*Panulirus* sp.) from coastal waters of Southern Java

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Spiny lobsters (*Panulirus* sp.) are known to live in southern Java and the identification based on morphological analysis results many irregularities. This condition is as result of differences in morphology at larval stage and the adult, a long period of larval life cycle, impact of oceanographic currents that inhibit and restrict the route and direction of larval dispersal causing genetic changes. However, biodiversity genetic of spiny lobster from this area has not been investigated. The research was conducted from January 2015 to May 2015. 1137 lobsters were collected from different locations, subsequent of the lobster morphology was analyzed using method of Carpenter and Niem (1998), 40 lobsters were taken randomly and were analyzed genetically using method of Lavery et al (2014). Observations of bp DNA, bp DNA mitochondrial sequencing, and the relationships of genetic in phylogenetic form used Codon of code and MEGA 5.0, as well as with dendogram Primer\_e. Morphological analysis obtained 6 species of lobsters i.e. *Panulirus homarus*, *P. versicolor*, *P. ornatus*, *P. penicullatus*, *P. polyphagus* and *P. longipes*. Phylogenetic analysis obtained two clade and morphological analysis obtained *P. penicullatus* but genetically as *P. homarus*. These irregularities allegedly were caused by adaptation to rock environment and low of light intensity.

Genetic diversity, Southern Java, spiny lobster

### AO-24

#### Identification and characterization of Talas banana, a superior local cultivar from East Kalimantan, based on morphological characters

Widi Sunaryo<sup>1</sup>, Nurhasanah<sup>1</sup>, Rahman<sup>2</sup>, Aris Sugiarto<sup>2</sup>

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Talas banana is a local cultivar banana endemically grown in East Kalimantan that is not explored and identified yet as other popular banana such as Ambon, Raja, Kepok, Maulin, and Susu. Based on the pre-observation, Talas

# INTERNATIONAL CONFERENCE ON BIODIVERSITY

Society for Indonesian Biodiversity  
Padjadjaran University & Sebelas Maret University  
Bandung, Indonesia, May 28, 2016

## Certificate of Appreciation

Awarded with thanks to:

*Jurnalia, Dn.*

In recognition of his/her significant contribution as:

Presenter

of

International Conference on Biodiversity

Bandung, Indonesia, 28<sup>th</sup> May 2016

*[Signature]*  
*Prof. Dr. Sukarno, M.Sc., Ph.D.*

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