UNIVERSITAS GADJAH MADA
THE STRUCTURE OF NEUROMAST AND NERVOUS SYSTEM OF LATERAL LINE ON THE DEVELOPMENTAL STAGE OF Anguilla bicolor (McClelland, 1844)
ARIEL HANANYA, Dr. Bambang Retnoaji, M.Sc
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

TABLE OF CONTENT

page

Title……..... i

Approvement Page..... ii

Plagiarism Free Statement..... iii

Preface..... iv

Table of Content..... vi

Table of Figures..... viii

Table of Tables..... ix

Abstract..... x

Intisari..... xi

I. INTRODUCTION

A. Research Background..... 1

B. Research Problem..... 4

C. Aim and Purpose..... 4

D. Research Scope..... 5

II. LITERATURE REVIEW

A. Description of *Anguilla bicolor* …… 6

B. Geographical Range…… 8

C. Anguilla Life Cycle and Adaptation…… 8

D. Lateral Line……. 13

III. THEORETICAL BASIS AND HYPOTHESIS

A. Theoretical Basis..... 16

B. Hypothesis..... 21

IV. RESEARCH METHOD

A. Research Time and Place……..... 22

B. Materials..... 22

C. Tools…..... 22

D. Research Scheme…… 23

E. Methods..... 24

F. Data Analysis..... 25

V. RESULT AND DISCUSSION

A. Morphometry..... 26

UNIVERSITAS
GADJAH MADA
THE STRUCTURE OF NEUROMAST AND NERVOUS SYSTEM OF LATERAL LINE ON THE DEVELOPMENTAL STAGE OF Anguilla bicolor (McClelland, 1844)
ARIEL HANANYA, Dr. Bambang Retnoaji, M.Sc
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

B. The Neuromast and Taste Bud Structure..... 29

C. Taste Bud Morphometry 32

D. The Morphology, Ultrastructure and Histological Structure of Neuromast and Taste Bud..... 34

VI. CONCLUTION AND SUGESTION

A. Conclution..... 40

B. Sugestion..... 40

REFERENCES..... 41

ATTACHMENT..... 44

UNIVERSITAS
GADJAH MADA
THE STRUCTURE OF NEUROMAST AND NERVOUS SYSTEM OF LATERAL LINE ON THE DEVELOPMENTAL STAGE OF Anguilla bicolor (McClelland, 1844)
ARIEL HANANYA, Dr. Bambang Retnoaji, M.Sc
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

LIST OF FIGURES

		page
Figure 1	The morphology of some species of Anguilla	7
Figure 2.	Lateral line on *Anguilla bicolor.*	14
Figure 3.	Superficial and canal neuromasts of the eel.	20
Figure 4.	Research scheme	23
Figure 5.	Common morphological structure and x-ray figure of *Anguilla bicolor*	27
Figure 6.	Common histological structure of *Anguilla bicolor* and the bone staining.	30
Figure 7.	Comparation ratio between taste bud vs epidermis and taste bud vs total body length.	33
Figure 8.	The morphology of neuromast	34
Figure 9.	Scanning electron figure and histological structure with bodian dye and hematoxylin eosin dye.	35
Figure 10.	Histological structure of silver eel's lateral line	35
Figure 11.	Histological structure of yellow eel's lateral line	36
Figure 12.	Histological structure of elver eel's lateral line.	39

UNIVERSITAS
GADJAH MADA
THE STRUCTURE OF NEUROMAST AND NERVOUS SYSTEM OF LATERAL LINE ON THE DEVELOPMENTAL STAGE OF Anguilla bicolor (McClelland, 1844)
ARIEL HANANYA, Dr. Bambang Retnoaji, M.Sc
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

LIST OF TABLES

		page
Tabel 1.	Average size of elver stage, yellow stage and silver stage	26
Tabel 2.	The average of measurement length of taste bud, epidermis and total body length	33