

**KEPUTUSAN**  
**DEKAN FAKULTAS PERTANIAN UNIVERSITAS SRIWIJAYA**  
**Nomor : 42/ / UN9.1.5/AK.16/2016**

**Tentang**

**PENGANGKATAN PEMBIMBING TESIS MAHASISWA S2**  
**PROGRAM STUDI MAGISTER ILMU TANAMAN PROGRAM PASCASARJANA**  
**FAKULTAS PERTANIAN UNIVERSITAS SRIWIJAYA**

**DEKAN FAKULTAS PERTANIAN UNIVERSITAS SRIWIJAYA**

- Memperhatikan :** Surat Ketua Program Studi Magister Ilmu Tanaman Program Pascasarjana Fakultas Pertanian Universitas Sriwijaya nomor : 095/UN9.1.5/AK.16/2016 tanggal 23 September 2016 perihal Permohonan penambahan SK pembimbing tesis mahasiswa.
- Menimbang :**
- a. Bahwa dalam rangka pelaksanaan kegiatan pembelajaran dan pembimbingan mahasiswa S2 Program Studi Magister Ilmu Tanaman Program Pascasarjana Fakultas Pertanian Universitas Sriwijaya perlu dibimbing dan diarahkan sesuai dengan bidang ilmu.
  - c. Bahwa sehubungan dengan butir 'a' di atas perlu diterbitkan surat keputusan sebagai pedoman dan landasan hukumnya.
- Mengingat :**
- 1. Undang-Undang No. 20 Tahun 2003 tentang Sistem Pendidikan Nasional.
  - 2. Peraturan Pemerintah Republik Indonesia No. 42 Tahun 1960 tentang Pendirian Universitas Sriwijaya.
  - 3. SK. Menteri PTIP No.108 tahun 1963 tentang Pendirian Fakultas Pertanian Universitas Sriwijaya
  - 4. SK Menristekdikti No. 012/2015 tentang Organisasi dan Tata Kerja Universitas Sriwijaya.
  - 5. SK. Mendiknas No. 064 Tahun 2003 tentang Statuta Universitas Sriwijaya
  - 6. SK Rektor Universitas Sriwijaya No : 0018/UN9/KP/2012 tanggal 13 Januari 2012 tentang Peralihan Status (Kedudukan) Pengelolaan Program Studi S2 Ilmu Tanaman dan S2 Agribisnis serta S3 Bidang Ilmu Pertanian Program Pascasarjana dibawah Fakultas Pertanian Universitas Sriwijaya.
  - 7. SK Rektor Universitas Sriwijaya No. 0043/UN9/KP/2013 Tanggal 19 Februari 2013 tentang Pengangkatan Dekan Fakultas Pertanian Universitas Sriwijaya Periode 2013-2017.

**MEMUTUSKAN :**

- Menetapkan :** **KEPUTUSAN DEKAN FAKULTAS PERTANIAN UNIVERSITAS SRIWIJAYA TENTANG PENGANGKATAN PEMBIMBING TESIS MAHASISWA S2 PROGRAM STUDI MAGISTER ILMU TANAMAN PROGRAM PASCASARJANA FAKULTAS PERTANIAN UNIVERSITAS SRIWIJAYA.**



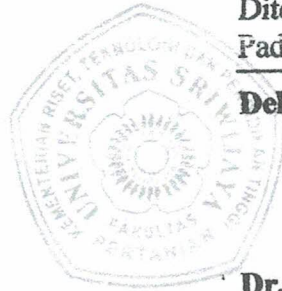
KEMENTERIAN RISET, TEKNOLOGI, DAN PENDIDIKAN TINGGI  
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- PERTAMA** : Menunjuk tenaga pendidik sebagaimana terlampir, men**...** bimbing Tesis mahasiswa Program Studi Magister Ilmu Tanaman Program Pasca Sarjana Fakultas Pertanian Universitas Sriwijaya dalam mempersiapkan rencana dan pelaksanaan segala bentuk kegiatan yang berkaitan dengan penyusunan Tesis.
- KEDUA** : Segala biaya yang timbul sebagai akibat dari diterbitkannya surat keputusan ini diibebankan pada anggaran yang tersedia pada Fakultas Pertanian Universitas Sriwijaya.
- KETIGA** : Keputusan ini berlaku sejak tanggal ditetapkan, dengan ketentuan bahwa segala sesuatu akan diubah atau diperbaiki sebagaimana mestinya apabila terdapat kekeliruan dalam keputusan ini.

Ditetapkan di : Indralaya  
Pada tanggal : 06 OCT 2016

Dekan,



**Dr. Ir. Erizal Sodikin.**  
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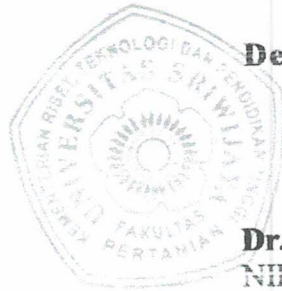
**Tembusan :**

1. Rektor Unsri
2. KPS Magister ITN PPS FP Unsri
3. Dosen Pembimbing
4. Yang Bersangkutan

Lampiran : Surat Keputusan FP Unsri  
Nomor : 4211 /UN.16/2016  
Tanggal : 06 OCT 2016

**DAFTAR PEMBIMBING TESIS MAHASISWA S2  
PROGRAM STUDI MAGISTER ILMU TANAMAN PROGRAM PASCASARJANA  
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Dekan.

**Dr. Ir. Erizal Sodikin.**  
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**A THESIS**

**GROWTH OF SOME VEGETABLES IN RESIDUAL  
WATER OF CATFISH (*Clarias batrachus*) CULTURE  
AS A SOURCE OF HYDROPONIC NUTRIENTS**

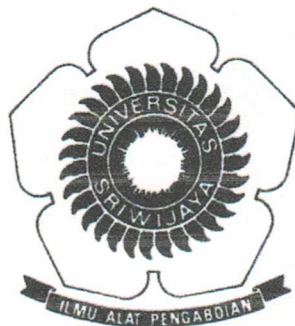


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2017**

**A THESIS**  
**GROWTH OF SOME VEGETABLES IN RESIDUAL  
WATER OF CATFISH (*Clarias batrachus*) CULTURE  
AS A SOURCE OF HYDROPONIC NUTRIENTS**

Submitted to Fulfill One of Requirements  
for The Degree of Magister of Science (M.Si)



**Yona Fitria Alhuda**  
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**MAGISTER OF CROP SCIENCE STUDY PROGRAM  
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## SUMMARY

**YONA FITRIA ALHUDA.** Growth of Some Vegetables in Residual Water of Catfish (*Clarias batrachus*) Culture as a Source of Hydroponic Nutrients (Supervised by **MUNANDAR, MARSI** and **SUSILAWATI**).

The objective of this study was to determine the role of residual water of catfish (*Clarias batrachus*) culture as a source of nutrition for vegetable growth grown hydroponically with floating raft system. The research was conducted in greenhouse of Faculty of Agriculture, Sriwijaya University, Indralaya from March to April 2017 and experiment was arranged in a Randomized Complete Block Design with three blocks and five treatments. The treatments were 5 L residual water of catfish culture + 0% AB mix nutrient solution (P1), 5 L residual water of catfish culture + 25% AB mix nutrient solution (P2), 5 L residual water of catfish culture + 50% AB mix nutrient solution (P3), 5 L residual water of catfish culture + 75% AB mix nutrient solution (P4), and 5 L residual water of catfish culture + 100% AB mix nutrient solution (P5). All treatments were used as a media for growing water spinach (C1), *caisim* (C2), and spinach (C3). Parameters observed were plant height, number of leaves, root length, fresh weight, level of leaf greenness, total nitrogen in leaves. The results showed that P4 treatment with 75% nutrient solution concentration significantly affected fresh weight of all vegetables, but the best level of leaf greenness was obtained on P5 in spinach, P3 in *caisim*, and P1 in water spinach. The highest total nitrogen of leaves found on treatment P3 either on spinach, *caisim*, or water spinach.

Key words : nutrient, residual water, waste water, hydroponic.

APPROVAL PAGE

GROWTH OF SOME VEGETABLES IN RESIDUAL WATER OF  
CATFISH (*Clarias batrachus*) CULTURE AS A SOURCE OF  
HYDROPONIC NUTRIENTS

A THESIS

Approved to Fulfill One of Requirements  
for The Degree of Magister of Science (M.Si)

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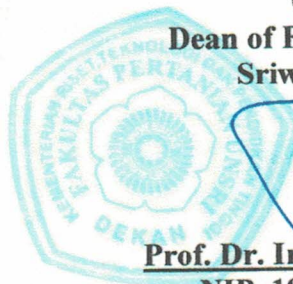
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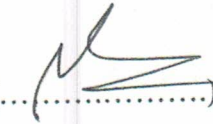

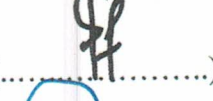
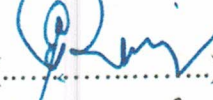
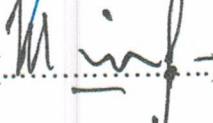
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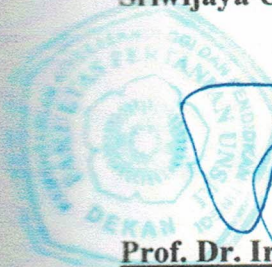

A thesis with the title "Growth of Some Vegetables in Residual Water of Catfish (*Clarias batrachus*) Culture as a Source of Hydroponic Nutrients" by Yona Fitria Alhuda has been defended in Thesis Examination Commission, Graduate Program of Faculty of Agriculture, Sriwijaya University, on July 28<sup>th</sup> 2017 and has been revised according to advice from examination commission.

### EXAMINATION COMMISSION APPROVAL

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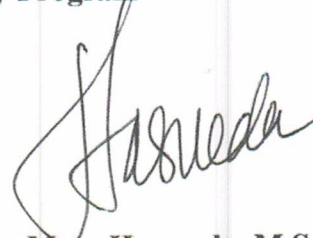
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## STATEMENT OF INTEGRITY

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Name : Yona Fitria Alhuda  
Student's Number : 20122502004  
Title : Growth of Some Vegetables in Residual Water of Catfish  
(*Clarias batrachus*) Culture as a Source of Hydroponic  
Nutrients

Declare that all data and information contained in this thesis are the result of my own research under the supervision of my thesis supervisors, unless the source is clearly stated. If in the future found the element of plagiarism in this thesis, then I am willing to accept any academic sanctions from Sriwijaya University.

This statement I make in a conscious state and do not get coercion from any party.



Palembang, July 2017



(Yona Fitria Alhuda)