

**PLANT MORPHOLOGY AND ANATOMY IN THE QUR'AN
ACCORDING TO ZAGHLUL AN-NAJJAR IN TAFSEER AL-
AYAT AL-KAUNIYYAH FI AL-QUR'AN AL-KARIM**



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UNIVERSITY OF DARUSSALAM GONTOR

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AYAT AL-KAUNIYYAH FI AL-QUR'AN AL-KARIM**

THESIS

Presented to:

University of Darussalam Gontor

in Partial Fulfillment of Requirement

**For a Bachelor's Degree in the Department of Quranic and Tafseer
Studies**

By

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ABSTRACT

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For Muslims, the Qur'an is the basis of science that proves the harmony of science with the revelation that was revealed thousands of years ago. One example is the study of plant morphology and anatomy. Each *mufasssir* focuses on interpreting verses about plants' external and internal structure. Zaghul An-Najjar, a contemporary scholar, highlights these verses through a modern scientific approach. Utilizing technology and scientific data, he offers a new perspective relevant to the modern era, demonstrating the integration of religion and science without abandoning religious principles. So, it is important to study how morphology and anatomy in the Qur'an in Tafsir Al-Ayat Al-Kauniyyah Fi Al-Qur'an Al-Karim by Zaghul An-Najjar.

The purpose of this study is to explain the morphology and anatomy of plants contained in several suras of the Qur'an according to the interpretation of Zaghul An-Najjar in his book Tafsir Al-Ayat Al-Kauniyyah fi Al-Qur'an Al-Karim.

This study used a literature study (library research) using a scientific thematic approach to explain Zaghul An-Najjar's interpretation of Qur'anic verses related to plant morphology and anatomy. To solve this problem, researchers used two methods, the descriptive method, which involves collecting related data and describing it, and the analysis method, which analyzes the data that has been collected before.

This study shows that according to Zaghul An-Najjar, the Qur'an contains verses that explain plant morphology and anatomy. Plant morphology, which is the study of the external structure of plants, is discussed in Surah Al-Baqarah verse 22, Al-An'am verse 95, Yusuf verse 47, Al-Mukminun verse 20, and Fatir verse 27. These verses describe the morphological characteristics of fruits, seeds, wheat, and olives. For example, fruits are classified by type into simple fruits, fruits of collected flowers, and fruits of combined flowers. Based on their origin, fruits are divided into actual and false fruits. Seeds, called "grain" and "kernel," are important. Olives, for example, have fan-shaped leaves and a drupa-type actual fruit with a hard seed in the centre. Fibrous roots, hollow stems, and small compound flowers characterize wheat. As for plant anatomy, which studies internal structures, it is mentioned in Surah Fatir verse 27 and Az-Zumar verse 21, especially about plant pigments. These pigments are divided into primary and additional pigments, supporting plant life and helping photosynthesis.

In this simple research, the researcher recognizes that it has shortcomings and has not reached perfection. Therefore, researchers hope that future studies can examine plants in more depth and from various points of view, for example, by studying plants from the linguistic aspect (*dalalah*) and integrating it with aspects of science.

Keywords: Plant Morphology, Plant Anatomy, Tafsir Al-Ayat Al-Kauniyyah Fi Al-Qur'an Al-Karim, Zaghul Najjar.

ABSTRAK

Bagi umat Islam, Al-Qur'an menjadi dasar ilmu pengetahuan yang membuktikan keselarasan sains dengan wahyu yang diturunkan ribuan tahun lalu. Salah satu contohnya adalah kajian tentang morfologi dan anatomi tumbuhan. Setiap mufassir memiliki fokus berbeda dalam menafsirkan ayat-ayat tentang struktur luar dan dalam tumbuhan. Zaghul An-Najjar, seorang ulama kontemporer, menyoroti ayat-ayat ini melalui pendekatan sains modern. Dengan memanfaatkan teknologi dan data ilmiah, ia menawarkan perspektif baru yang relevan dengan era modern, menunjukkan integrasi agama dan sains tanpa meninggalkan prinsip-prinsip agama. Maka penting untuk dikaji bagaimana morfologi dan anatomi dalam Al-Qur'an dalam Tafsir Al-Ayat Al-Kauniyyah Fi Al-Qur'an Al-Karim karya Zaghul An-Najjar.

Tujuan penelitian ini adalah untuk menjelaskan tentang morfologi dan anatomi tumbuhan yang terdapat dalam beberapa surah Al-Qur'an menurut penafsiran Zaghul An-Najjar dalam kitabnya Tafsir Al-Ayat Al-Kauniyyah fi Al-Qur'an Al-Karim.

Jenis penelitian ini adalah studi literature (*library research*) dengan menggunakan pendekatan tematik ilmiah untuk menjelaskan penafsiran Zaghul An-Najjar tentang ayat-ayat Al-Qur'an yang berkaitan dengan morfologi dan anatomi tumbuhan. Untuk memecahkan masalah ini peneliti menggunakan dua metode, metode deskriptif yaitu mengumpulkan data-data yang terkait dan memaparkannya, dan metode analisis yaitu menganalisis data-data yang sudah terkumpul sebelumnya.

Dari penelitian ini diketahui bahwa menurut Zaghul An-Najjar, Al-Qur'an mengandung ayat-ayat yang menjelaskan morfologi dan anatomi tumbuhan. Morfologi tumbuhan, yaitu studi tentang struktur luar tumbuhan, dibahas dalam Surah Al-Baqarah ayat 22, Al-An'am ayat 95, Yusuf ayat 47, Al-Mukminun ayat 20, dan Fatir ayat 27. Ayat-ayat ini menguraikan ciri morfologi buah, biji, gandum, dan zaitun. Misalnya, buah diklasifikasikan berdasarkan jenisnya menjadi buah sederhana, buah dari bunga terkumpul, dan buah dari bunga gabungan. Berdasarkan asal-usulnya, buah terbagi menjadi buah sejati dan buah semu. Biji, yang disebut dengan istilah "butir" dan "inti," dijelaskan memiliki peran penting. Zaitun, sebagai contoh, memiliki daun berbentuk sirip dan buah sejati berjenis drupa dengan biji keras di tengahnya. Gandum dicirikan dengan akar serabut, batang berongga, dan bunga majemuk kecil. Adapun anatomi tumbuhan, yang mempelajari struktur dalam, disebutkan dalam Surah Fatir ayat 27 dan Az-Zumar ayat 21, terutama tentang pigmen tumbuhan. Pigmen ini terbagi menjadi pigmen utama dan tambahan, yang berfungsi mendukung kehidupan tumbuhan, seperti membantu proses fotosintesis.

Dalam penelitian yang sederhana ini peneliti mengakui bahwasanya penelitian ini memiliki kekurangan dan masih belum mencapai tahap kesempurnaan. Oleh karena itu, peneliti berharap agar penelitian-penelitian selanjutnya dapat mengkaji tumbuhan secara lebih mendalam dan dari berbagai sudut pandang. Misalnya, dengan mengkaji tumbuhan dari aspek kebahasaannya (*dalalah*) dan mengintegrasikannya dengan aspek sains.

Kata Kunci: Morfologi Tumbuhan, Anatomi Tumbuhan, Tafsir Al-Ayat Al-Kauniyyah Fi Al-Qur'an Al-Karim, Zaghul Najjar.

To Honorable,
Dean of Faculty of Ushuluddin
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Bismillāhirrahmānirrahīm

Assalāmu'alaikum Wr. Wb.

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The Title : Plant Morphology and Anatomy in the Qur'an
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Kauniyyah Fi Al-Qur'an Al-Karim.

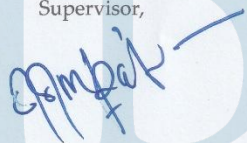
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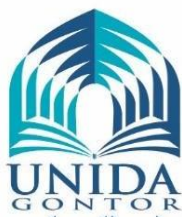
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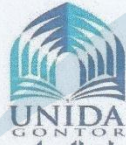
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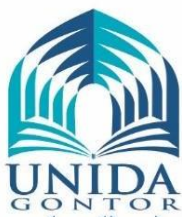
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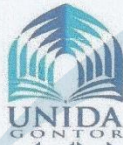
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DECISION OF THE EXAMINERS TEAM

The committee holds the thesis examination in partial fulfillment of the requirements for the degree of Licentiate in Al-Qur'an and Tafseer Studies in the Faculty of Ushuluddin, University of Darussalam Gontor on:

Day/Date : Saturday, 1st of February 2024
Place : Ushuluddin Faculty Office of University of Darussalam Gontor

The thesis written by:

Name : Annisa Rana Rafidah
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Faculty/ Department : Ushuluddin/ Al-Qur'an and Tafsir Studies
The Title : Plant Morphology and Anatomy in the Qur'an According to Zaghul An-Najjar in Tafseer Al-Ayat Al-Kauniyyah Fi Al-Qur'an Al-Karim.

Decided to grant her pass in the thesis examination. Hence, she is eligible to be awarded the degree of Licentiate in Al-Qur'an and Tafseer Studies in the Faculty of Ushuluddin, University of Darussalam Gontor.

Chief of Examination Board,

Ahmad Fadly Rahman Akbar, S.Ud., M.Us.

Secretary,

Rochmad, M.A., Ph.D.

1st Examiner : Syamsul Hadi Untung, M.A., M.LS.

: ()

2nd Examiner : Rochmad, M.A., Ph.D.

: ()

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DECLARATION

I here by,

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The Title : Plant Morphology and Anatomy in the Qur'an
According to Zaghul An-Najjar in Tafseer Al-Ayat Al-Kauniyyah Fi Al-Qur'an Al-Karim.

declare sincerely that this thesis originally belongs to my own work and not belongs to other researcher for different degree. Furthermore, this thesis is not a work published before, except some parts with their original references.

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MOTTOES

Knowledge is the light that guides human steps towards understanding
the essence of life.

قال الله تعالى في القرآن الكريم

أعوذ بالله من الشيطان الرجيم

بسم الله الرحمن الرحيم

الَّذِي جَعَلَ لَكُمُ الْأَرْضَ فِرَاشًا وَالسَّمَاءَ بِنَاءً وَأَنْزَلَ مِنَ السَّمَاءِ مَاءً فَأَخْرَجَ بِهِ
مِنَ الثَّمَرَاتِ رِزْقًا لَّكُمْ ۖ فَلَا تَجْعَلُوا لِلَّهِ أَنْدَادًا وَأَنْتُمْ تَعْلَمُونَ (٢٢)

البقرة: ٢٢

إِنَّ اللَّهَ فَالِقُ الْحَبِّ وَالنَّوَى ۚ يُخْرِجُ الْحَيَّ مِنَ الْمَيِّتِ وَمُخْرِجُ الْمَيِّتِ مِنَ الْحَيِّ ۚ
ذَلِكُمْ اللَّهُ ۚ فَأَتَى تُؤَفْكُونَ (٩٥)

الأنعام: ٩٥

أَلَمْ تَرَ أَنَّ اللَّهَ أَنْزَلَ مِنَ السَّمَاءِ مَاءً فَأَخْرَجْنَا بِهِ ثَمَرَاتٍ مُخْتَلِفًا أَلْوَانُهَا وَمِنَ الْجِبَالِ
جُدَدٌ بَيضٌ وَحُمْرٌ مُخْتَلِفٌ أَلْوَانُهَا وَغَرَابِيبُ سُودٌ (٢٧)

فاطر: ٢٧

DEDICATION

بسم الله الرحمن الرحيم

I dedicate this thesis to: My beloved parents, my mother Dwi Ratna Sulistiyowati and my father Budi Santoso, with their love and support, countless sacrifices for my success, and all the energy, as well as thousands of sweat and tears for my success, I can survive every time in my life. Also to my sister and brother, Nabila Firda Suryani and Muhammad Hilmy Santoso, with their love and full support, thus I could survive until the end of this academic journey. Also, to myself, with Allah's strength, I can do this hard work.



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The researcher is fully aware that this arrangement would not be successful without the contribution, motivation, encouragement, direction, and guidance from the various parties. Therefore, with all modesty, the researcher expresses thanks and high appreciation to:

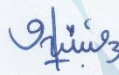
1. The Head Master of Darussalam Islamic Boarding School, K.H. Hasan Abdullah Sahal, Drs. K.H. M. Akrim Mariyat, Dipl.Ed., and Prof. Dr. K.H. Amal Fathullah Zarkasyi, M.A., who have allowed the researcher to study at the University of Darussalam Gontor.
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M.Pd.I.
4. Dear Mr. Syamsul Hadi Untung, M.A., M.LS., as the Dean of Faculty of
Ushuluddin, University of Darussalam Gontor. Thank you for the
leadership, direction, and support that have been given during my
education, so that I can complete this thesis well.
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when I feel tired and doubtful. Those of you who are always present to
share stories, provide encouragement, and remind me to keep going,
have become an irreplaceable part in the struggle to complete this thesis.

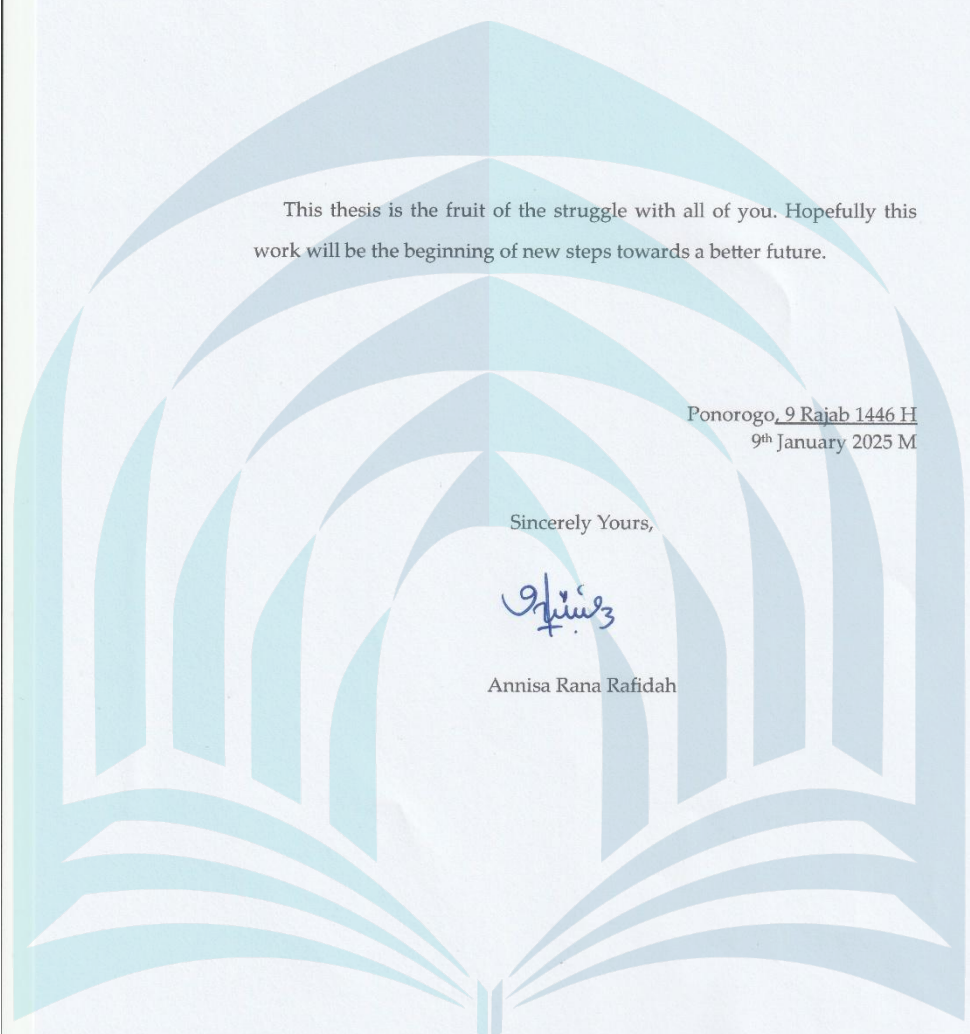
This thesis is the fruit of the struggle with all of you. Hopefully this work will be the beginning of new steps towards a better future.

Ponorogo, 9 Rajab 1446 H
9th January 2025 M

Sincerely Yours,



Annisa Rana Rafidah



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