|  |  |
| --- | --- |
|  | |
| Book Name: | [**Chemistry and Biochemistry: Research Progress**](https://www.bookpi.org/bookstore/product/chemistry-and-biochemistry-research-progress-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5513** |
| Title of the Manuscript: | **BIOCHEMICAL PATHWAY OF FLAVONOIDS BIOSYNTHESIS** |
| Type of the Article | **Book Chapter** |

|  |  |  |
| --- | --- | --- |
| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | This chapter explores how flavonoids are produced in plants, highlighting their vital roles in protection, coloration, and growth, as well as their potential benefits for human health. Understanding this process can support advancements in agriculture, food quality, and pharmaceutical development. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **Informal language**  Flavonoids are just such a fantastic group of plant compounds  Flavonoids are an important group of polyphenolic compounds found in plants  Now let's describe how these flavonoids are biosynthesized  These compounds are synthesized through the phenylpropanoid pathway  **o**ther cool tweaks that help in the formation  Additional modifications such as hydroxylation and glycosylation  Something super-important for how plants grow, and could even be good for human health  highlighting its critical role in plant development and potential benefits for human health |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | No, Additional references to support  Forsan, H. F. Zebrafish as a Model for a Novel Neuroprotective Natural Product. In *Zebrafish as a Model for Parkinson’s Disease* (pp. 215-227): CRC Press.  Forsan, H. F. (2024a). Diet and Sleep Disorders. In *Nutrition and Psychiatric Disorders: An Evidence-Based Approach to Understanding the Diet-Brain Connection* (pp. 421-443): Springer.  Forsan, H. F. (2024b). Polyphenols and TBI. In *Nutrition and Traumatic Brain Injury (TBI) From Bench to Bedside* (pp. 245-270): Springer.  Forsan, H. F. (2025). Future Trends and Prospects in Dairy Industry. In *Food and Industry 5.0: Transforming the Food System for a Sustainable Future* (pp. 383-396): Springer.  Forsan, H. F., Abd El-Hak, A. E., Ahmad, E., Alswerky, E. M., Elagezy, F. K., Yassin, M., . . . Fouda, M. A. (2024). Toward Better Science-Based Advice on Nutrition. In *Nutrition and Psychiatric Disorders: An Evidence-Based Approach to Understanding the Diet-Brain Connection* (pp. 183-204): Springer.  Forsan, H. F., Fayed, M. R., Farahat, N. M., Gabr, W. M., Alswerky, E. M., El-Hak, A. E. A., . . . Safwat, M.-A. (2025). Polyphenols of Mulberry White (Morus alba L.) Leaves as a Source of Functional Food: A Review. *Al-Kitab Journal for Pure Sciences, 9*(Laurent, O’Brien, & Ahmad). doi:http://10.32441/kjps  Forsan, H. F., & Hassan, R. S. (2023). Novel Nutraceutical Milk Compound in Alzheimer’s Prevention. In E. Mohamed (Ed.), *Handbook of Neurodegenerative Disorders*. Singapore: Springer.  Hasan, R. S., & Forsan, H. F. (2025). Dairy consumption and the risk of Parkinson's disease. In *Essential Guide to Neurodegenerative Disorders* (pp. 163-177): Elsevier.  Hassan Mohamed Sobhy, M. E. A., Wafaa Elsabie, & Forsan, H. F. (2021). STUDY OF HIGH NUTRITIVE VALUE OF ALMOND MILK BEVERAGE. *Plant archives, 21*, 2493-2496. doi:https://doi.org/10.51470/PLANTARCHIVES.2021.v21.S1.405 |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments |  |  |

|  |  |  |
| --- | --- | --- |
| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer details:**

**Hagar Fathy Saad , Egypt**