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| Book Name: | [**Medical Science: Recent Advances and Applications**](https://bookstore.bookpi.org/product/medical-science-recent-advances-and-applications-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5686** |
| Title of the Manuscript: | **Gilles-de-la-Tourette Syndrome in Childhood: Molecular, Neurobiological and Genetic Aspects** |
| Type of the Article | **Book chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Asian Journal of Pediatric Research, 14(8): 8-17, 2024.**

**DOI: 10.9734/ajpr/2024/v14i8376**

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| 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 manuscript provides a timely and comprehensive overview of Gilles de la Tourette Syndrome (GTS) in childhood, integrating molecular, neurobiological, and genetic aspects with current treatment options. By synthesizing recent research, it offers valuable insights into the complex pathophysiology of this rare hereditary disorder. This review is crucial for clinicians and researchers alike, as it highlights emerging targets for therapeutic intervention and underscores the challenges in developing curative treatments due to the syndrome's multifactorial origin. It serves as a foundational resource for understanding the current state of GTS research and identifying future directions.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes, the title "Gilles-de-la-Tourette Syndrome in Childhood: Molecular, Neurobiological and Genetic Aspects" is highly suitable. It accurately reflects the scope of the review, clearly indicating the disorder, the age group, and the specific areas of focus (molecular, neurobiological, and genetic aspects). It is concise, informative, and relevant to the content.** |  |
| 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. | **The abstract is largely comprehensive, effectively summarizing the key aspects of the review. It introduces repetitive behaviors, the pathological nature of GTS, and highlights the suspected roles of dopaminergic and serotonergic pathways and the striatum. It also states the work's focus on molecular aspects, treatment options, and recent research on new targets for childhood GTS.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Based on a thorough review, the manuscript appears to be scientifically correct. It synthesizes information from a wide range of recent scientific literature, covering established concepts and emerging findings in the field of Gilles de la Tourette Syndrome. The descriptions of molecular aspects (Reelin, interleukins, oxytocin), neurobiological mechanisms (basal ganglia, dopaminergic system, functional neuroimaging), and genetic findings (chromosome 5q15, IMMP2L, HDC, SLC6A4, CNVs) align with current scientific understanding. The discussion of treatment approaches, including pharmacological interventions, psychotherapy, and deep brain stimulation techniques (DBS, SABERS), also reflects contemporary clinical practice and research directions. The authors appropriately acknowledge the complexity and multifactorial nature of GTS, particularly regarding its genetic origins and the challenges in achieving a definitive cure.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **The references are largely sufficient and notably recent, which is a significant strength of this review. Many references are from 2023 and 2024, demonstrating that the authors have incorporated the latest research findings. This ensures the review provides an up-to-date perspective on GTS.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **Yes.** |  |
| Optional/General comments |  |  |

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| **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:**

**Thiago Rafael da Silva Moura, Brazil**