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| Book Name: | [**Medical Science: Trends and Innovations**](https://www.bookpi.org/bookstore/product/medical-science-trends-and-innovations-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4466** |
| Title of the Manuscript:  | **EARLY DISEASE DIAGNOSIS USING FTIR SPECTROSCOPY IN BODY FLUIDS ANALYSIS** |
| Type of the Article | **Book Chapter** |

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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.** | The paper looks at all the recent breakthroughs in this field, making it a valuable resource for scientists who are working on developing new medical tests and those who study how to analyze biological samples. It's like a detailed roadmap showing how far we've come and where this technology might take us in improving disease diagnosis. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The title of the article as it stands is good, but we could make it even better and precise. Think of it like this:The new suggested title - "Advancements in Early Disease Diagnosis Using FTIR Spectroscopy of Body Fluids"  |  |
| 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 gives a decent summary, but it could be better organized. We should make sure it clearly lays out what we were trying to do, how we did it, what we found, and why it matters. Author written very generalized abstract, need to update.Specifically, it would be great to explain how FTIR helps make diagnoses more accurate and also mention some of the key diseases we looked at. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | The paper's science is solid, and the tech stuff checks out. The sections on using FTIR for COVID-19, Alzheimer's, and cancer are really well done.The figures are in the right places, but a few of them are a little blurry. We should try to get some higher-resolution versions. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The references are relevant and current, spanning 2020-2025. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The manuscript is generally well-written, but there are a few minor grammatical hiccups here and there. |  |
| Optional/General comments |  The manuscript is well-structured and informative.  Revisions are required for clarity and completeness.  Figures should be optimized for better resolution.  Additional discussion on machine learning in FTIR analysis would strengthen the manuscript.  |  |

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| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with 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 details)* |  |

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| **Reviewer Details:** |
| Name: | **Aniket Kumar** |
| Department, University & Country | **Indira Gandhi Institute of Medical Sciences, India** |