# Towards A Systematic Evaluation of Protein Mutation Extraction Systems

Submitted by witte [1] on Wed, 2010-12-29 11:59

- mutation extraction systems; mutation evaluation tasks; mutation evaluation metrics [2]
- Open Mutation Miner [3]
- Bioinformatics [4]
- NLP [5]

| | |
|---|---|
| Title | Towards A Systematic Evaluation of Protein Mutation Extraction Systems |
| Publication Type | Journal Article |
| Year of Publication | 2007 |
| Authors | Witte, R. [6], and C. J. O. Baker [7] |
| Refereed Designation | Refereed |
| Journal | Journal of Bioinformatics and Computational Biology (JBCB) |
| Volume | 5 |
| Issue | 6 |
| Pagination | 1339–1359 |
| Date Published | December |
| Keywords | mutation extraction systems; mutation evaluation tasks; mutation evaluation metrics [8] |
| Abstract | The development of text analysis systems targeting the extraction of information about mutations from research publications is an emergent topic in biomedical research. Current systems differ in both scope and approaches, which prevents a meaningful comparison of their performance and therefore possible synergies. To overcome this "evaluation bottleneck," we developed a comprehensive framework for the systematic analysis of mutation extraction systems, precisely defining tasks and corresponding evaluation metrics that will allow a comparison of existing and future applications. |
| Notes | PMID: 18172932 |
| DOI | 10.1142/S0219720007003193 [9] |
| Copyright | Copyright © 2007 Imperial College Press. This is the authors' postprint version of the work. It is posted here by permission of World Scientific Publishing for your personal use. Not for redistribution. The definitive version was published in the Journal of Bioinformatics and Computational Biology (JBCB). |
| History | Received 25 July 2007<br>Revised 20 September 2007<br>Accepted 30 September 2007 |

| Attachment | Size |
|---|---|
| witte_baker_jbcb2007.pdf [10] | 248.69 KB |

**Source URL (retrieved on *2026-01-25 23:53*):**
https://www.semanticsoftware.info/biblio/towards-systematic-evaluation-protein-mutation-extraction-systems

**Links:**
[1] https://www.semanticsoftware.info/users/witte
[2] https://www.semanticsoftware.info/category/blog-tags/mutation-extraction-systems-mutation-evaluation-tasks-mutation-evaluation-metrics
[3] https://www.semanticsoftware.info/category/project/mutation-miner
[4] https://www.semanticsoftware.info/category/topic/bioinformatics
[5] https://www.semanticsoftware.info/category/topic/nlp
[6] https://www.semanticsoftware.info/biblio/author/1
[7] https://www.semanticsoftware.info/biblio/author/16
[8] https://www.semanticsoftware.info/biblio/keyword/53
[9] http://dx.doi.org/10.1142/S0219720007003193
[10] https://www.semanticsoftware.info/system/files/witte_baker_jbcb2007.pdf