



Information system for analyzing morphofunctional changes in the central nervous system in the study of the effects of ionizing radiation and other factors

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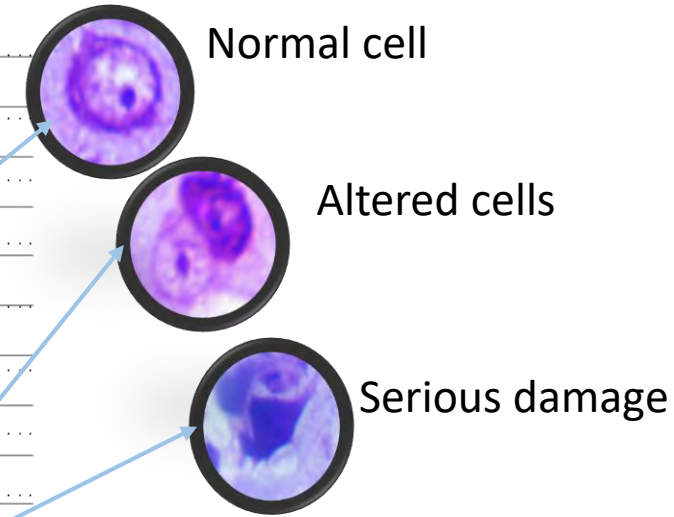
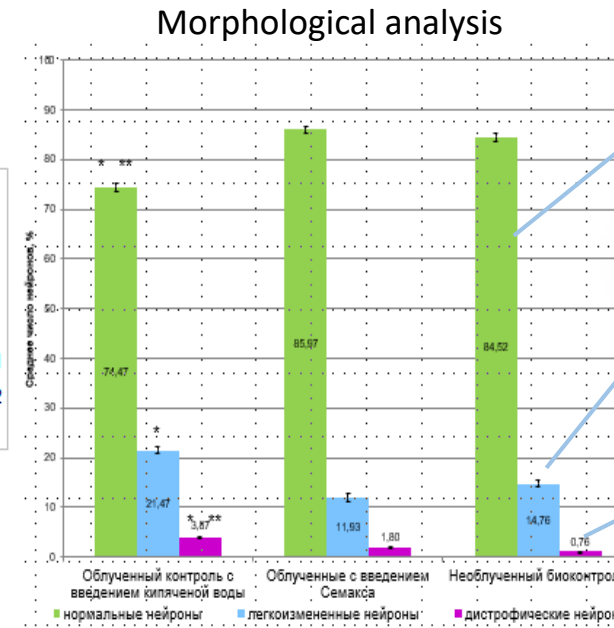
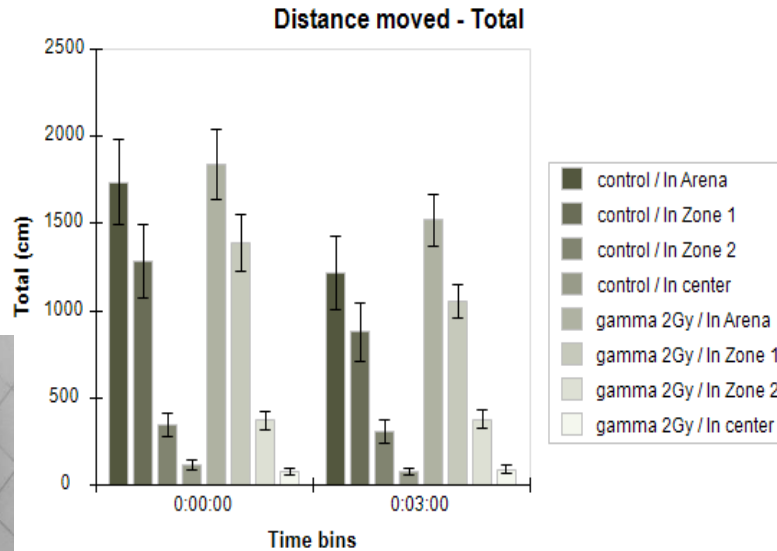
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Comprehensive analysis of the results obtained at all stages of the study



The information system is necessary for

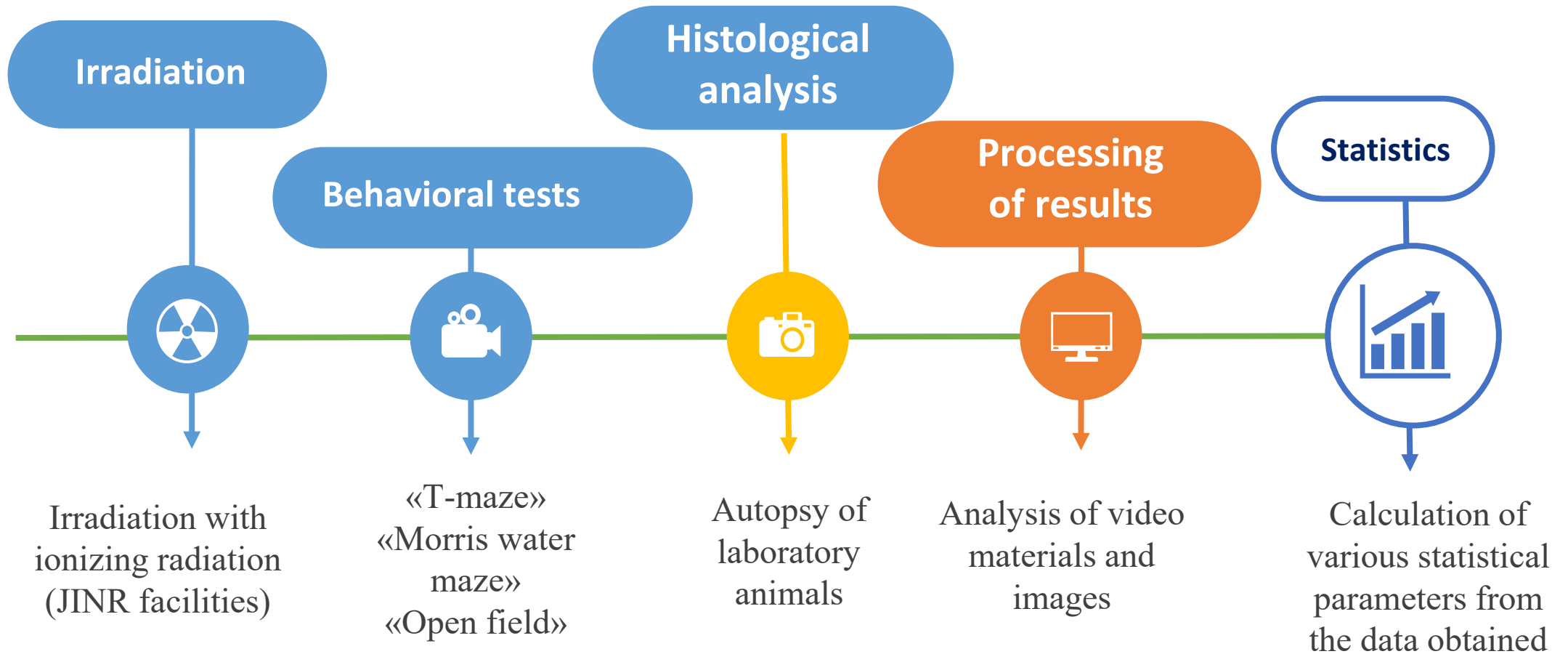
- Storing the entire array of experimental data (photo and video materials, pdf, excel, doc files with information about the experiment) and minimizing the risk of losing information.
- Convenient access to all members of the research group and the ability to carry out both step-by-step and complex data analysis in a single information space.
- Reducing the time spent on data processing, increasing the speed of obtaining high-quality results and reducing the subjectivity of the approach to processing experimental data.



Information system for radiobiological research (Joint project of MLIT and LRB)



General scheme of the experiment





Information system for radiobiological research (Joint project of LIT and LRB)



1

Restricted access

Users access the service after authentication

2

Work with experimental data

Storing of different data in the DB, and their modification and deletion

3

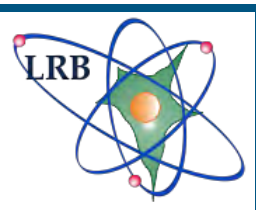
Uploading and storing files

Saving photos and videos from experiments in the server file system.

4

Presentation of results

Statistics, charts and graphs



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Video demonstration of the system will be available during the poster session

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Conclusion

Information system has been implemented as a web application and it has a client-server architecture.

The information system under development allows one to combine and structure data of different types from different experiments and experimental groups into a unified information space that can provide both the convenience of storing and accessing data and a set of advanced (relevant) algorithmic procedures for data analysis automation to solve problems related to the diagnosis of different pathologies of the central nervous system after irradiation.

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