

Research methods for the biosciences

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Tombs -- China -- To 221 B.C.

Pottery, Chinese -- To 221 B.C.

Burial -- China -- To 221 B.C.

Agriculture -- Study and teaching.

Agriculture -- Curricula -- Junior high schools.

Dental caries

Cookery, German

Knowledge, Theory of, in literature

National characteristics, American, in literature

Self in literature

Labor in literature

Seafaring life in literature

Sailors in literature

American literature -- 19th century -- History and criticism

Sea stories, American -- History and criticism

Life sciences -- Research -- Methodology. Research methods for the biosciences

-Research methods for the biosciences

Notes: Includes bibliographical references (p. [378]) and index.

This edition was published in 2006

Problems	Impact on biosciences
Massive growth in bioscience research computing	More data, more computing power, more algorithms, more applications, and more insight and knowledge generated. Progress can only accelerate research and improve reproducibility and consistency.
Commodification of research computing	As tools go from being fluid to transitional to specific, they will become commoditized. Standard hardware models (such as GPUs) will become more generic, and software reuse will happen more through containers and cloud applications.
Data and process standardization	As data, workflow, and processing standards mature, they will yield platforms that give the best computing power and value for money for well-established research tools (as has happened for genome sequencing, for example).
Specialization of research computing in bioscience research	Specialization in the biosciences, such as innovative microscopy or XFLA, will continue to accelerate. Knowledge of the underpinning computational tools will be essential for researchers in these fields.
Data analysis at speed	The increase in data production in the biosciences means that the ability to analyse and compare data as they are generated will become ever more important.
High-scale visualization and modelling tools	The multidimensional nature of biological data requires multilevel modelling and visualization tools to understand how structure connects to biological function.
Use of commercial on-premise batch services	Commercial services will step in to provide bioscience computation in a similar manner to the emergence of gene-sequencing services.
New ethical issues emerge	We will become increasingly coupled to computation, through wearable sensor technologies, virtual reality and implantable devices. The long-term consequences for society will require a broad interdisciplinary base to assess, e.g., neuroscience, genomics, psychology, philosophy, and computer science.
Growth in visualization and 'citizen science'	As bioscience software matures, focus will shift from functionality to visualization tools for best exploring the data [10], which will include virtual reality [11]. Such rich computational experiences will engage a wide public audience with bioscience research, as is already happening for bioimaging [10] [12].

Abbreviations: GPU, graphical processing unit; XFLA, X-ray free electron laser.

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