Here are some recent research publications that have been done using bioinformatics:

1. **Current trend and development in bioinformatics research**[: This is an editorial report of the supplements to BMC Bioinformatics that includes papers selected from the BIOCOMP’19—The 2019 International Conference on Bioinformatics and Computational Biology](https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-020-03874-y). [The articles reflect current trend and development in bioinformatics research](https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-020-03874-y).

Link: <https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-020-03874-y>

1. **Bioinformatics | Oxford Academic**[: Bioinformatics is the leading journal in its field, publishing the highest quality scientific papers and review articles of interest to academic and industrial researchers](https://academic.oup.com/bioinformatics/). [Its main focus is on new developments in genome bioinformatics and computational biology](https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-020-03874-y).

Link: <https://academic.oup.com/bioinformatics/>

1. **High-Impact Research | Briefings in Bioinformatics | Oxford Academic**[: This page provides a collection of the most read and most cited articles making an impact in Briefings in Bioinformatics published within the past two years](https://academic.oup.com/bib/pages/highly-cited-articles).

Link: <https://academic.oup.com/bib/pages/highly-cited-articles>

1. **Articles | BMC Bioinformatics - BioMed Central**: This page provides a list of articles published in BMC Bioinformatics.

Link: <https://bmcbioinformatics.biomedcentral.com/articles>

These publications should give you a good overview of the type of research being done in the field of bioinformatics. Here are some of the recent trends in bioinformatics research:

1. **Next-Generation Sequencing**: This includes personal genomics, cancer genomics, and metagenomics[**4**](https://www.mdpi.com/journal/biomedinformatics/special_issues/Bioinformatics_and_Statistical_Research_from_Biomedical_Aspect).
2. **Rare and Common Variants of Human Genome**: This involves the study of both rare and common genetic variants in the human genome[**4**](https://www.mdpi.com/journal/biomedinformatics/special_issues/Bioinformatics_and_Statistical_Research_from_Biomedical_Aspect).
3. **Phenome-Wide Association Study (PheWAS)**: This is a research technique used to identify associations between diseases and genetic variants[**4**](https://www.mdpi.com/journal/biomedinformatics/special_issues/Bioinformatics_and_Statistical_Research_from_Biomedical_Aspect).
4. **Epigenomics, Non-Coding RNAs, and DNA Methylation Analysis**: This involves the study of changes in gene activity that do not involve alterations to the genetic structure[**4**](https://www.mdpi.com/journal/biomedinformatics/special_issues/Bioinformatics_and_Statistical_Research_from_Biomedical_Aspect).
5. **Machine Learning and Artificial Intelligence**: These are being increasingly used in bioinformatics for data analysis[**3**](https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-020-03874-y).
6. **Functional Genomics**: This involves the use of RNA-seq analysis[**3**](https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-020-03874-y).
7. **Data Mining**: This includes text search, data integration, database development, and management[**3**](https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-020-03874-y).

These topics reflect the current trend and development in bioinformatics research. Please note that the specific research papers on these topics can be found in the respective publications.

Sources

1. [Current Trends in Translational Bioinformatics | Frontiers Research Topic](https://www.frontiersin.org/research-topics/8226/current-trends-in-translational-bioinformatics)

2. [Current Research Topics in Bioinformatics](https://bioinformaticsreview.com/20200922/current-research-topics-in-bioinformatics/)

3. [Current trend and development in bioinformatics research](https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-020-03874-y)

4. [Current Trends and Developments in Bioinformatics and ... - MDPI](https://www.mdpi.com/journal/biomedinformatics/special_issues/Bioinformatics_and_Statistical_Research_from_Biomedical_Aspect)