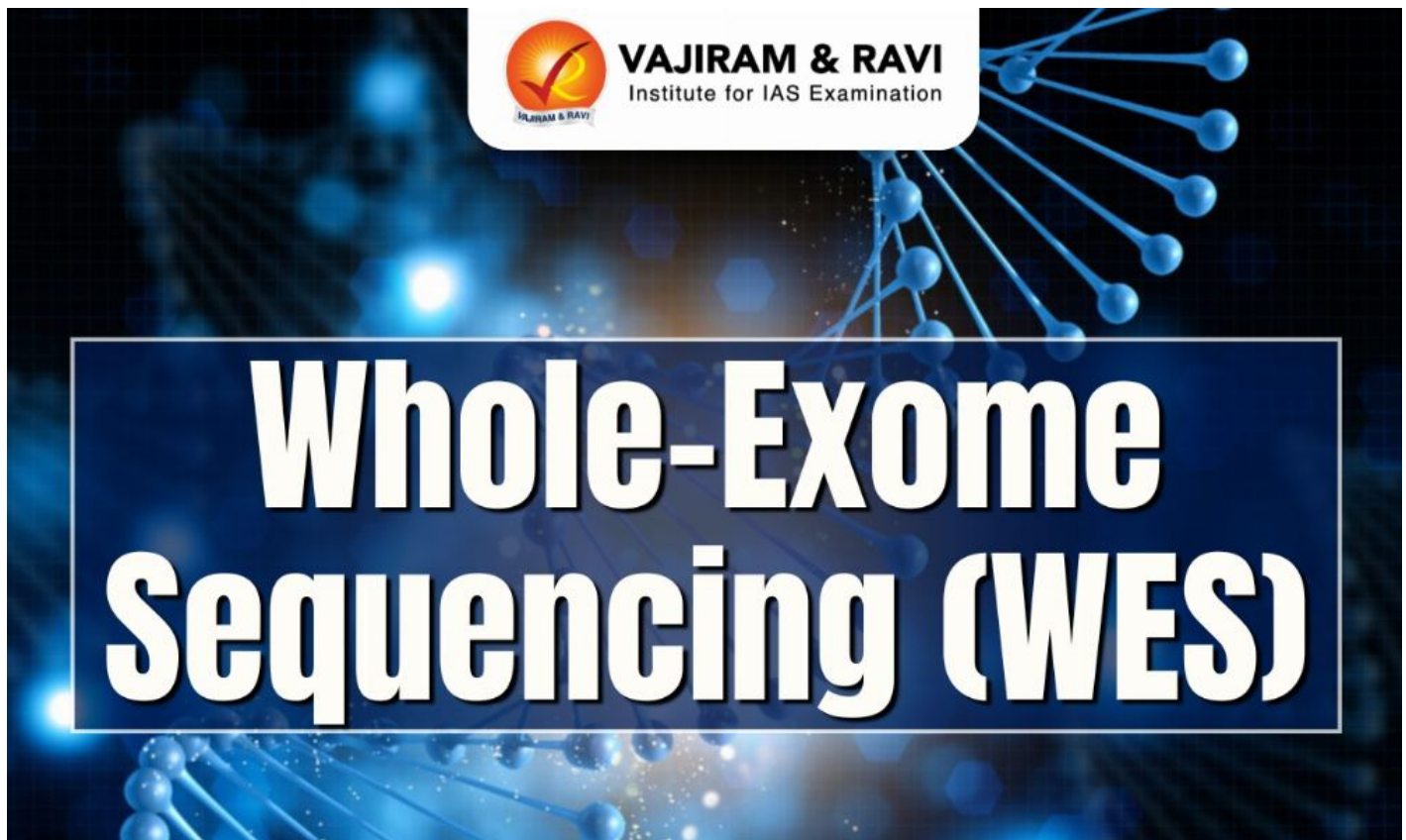


Whole-Exome Sequencing (WES)

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Whole-Exome Sequencing (WES) Latest News

Scientists recently used a genetic sequencing technique called whole exome sequencing to discover a new rare genetic disease.

About Whole-Exome Sequencing (WES)

- WES is the approach used to **sequence only the protein-coding regions** of the **human genome**.
- These **protein-coding regions** within the genome are **known as exons**, and they make up less than **2% of our entire genome**, but they are very important because they **contain about 85% of the genetic variants linked to different diseases**.
- Together, **all the exons** in a genome are **known as the exome**.
- **WES focuses on the exome** and provides a more **targeted approach compared to whole-genome sequencing (WGS)**, which sequences the entire genome, including non-coding regions.
- Since most disease-related mutations are found in the exome, this makes WES an **effective tool for diagnosing genetic conditions** and **understanding disease mechanisms**.

- WES is a faster **and cost-effective** alternative to WGS. It also **simplifies the data analysis** process.
- WES is especially useful in research and clinical settings to **identify both common and rare genetic variants**.

Source: NM

Source: <https://vajiramandravi.com/current-affairs/whole-exome-sequencing-wes/>

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