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Abstract Topic: - Cancer

Abstract Title: - From Antiquity to Modernity: Unveiling the Tapestry of Gene fusion detection pipelines.

Presenting author name: - Naman Mangukia

Presenting author institute: - Unipath Specialty Laboratory Ltd

Co-authors name: - Toral Manvar, Nikha Trivedi, Neeraj Arora

Co-authors institute: - Unipath Specialty Laboratory Ltd, Unipath Specialty Laboratory Ltd, Unipath Specialty Laboratory Ltd

Aims: - To investigate fusion gene detection pipelines.

Methods: - Extensive literature mining was performed to find the available pipelines for fusion gene detection. Each software was downloaded and installed on high performance computing system along with the test run.

Results: - In this retrospective study, we investigated available fusion detection pipelines. We explored the 'availability', 'accessibility' and 'ease of use' features of these pipelines. Interestingly, RNA-Seq technology, along with the STAR aligner, were found as the preferred choice in the development of contemporary pipelines.

Conclusions: - This review underscores the awareness of fusion detection pipelines, providing valuable insights and avenues for future research and innovation.

Keywords: - In this retrospective study, we investigated available fusion detection pipelines. We explored the 'availability', 'accessibility' and 'ease of use' features of these pipelines. Interestingly, RNA-Seq technology, along with the STAR aligner, were found as the preferred choice in the development of contemporary pipelines.