



Cambridge Lower Secondary Checkpoint

SCIENCE

Paper 2

MARK SCHEME

Maximum Mark: 50

1113/02

April 2021

Published

This mark scheme is published as an aid to teachers and learners, to indicate the requirements of the examination. However, we have not been able to adjust it to reflect the full range of answers that would have been seen as a part of the normal moderation and marking process, and it does not necessarily contain all the possible alternatives that might have arisen.

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This document has **16** pages.

1113 A M Marking Scheme

WJ Hussar

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Other Than Those of a Local, Personal, Or Temporary Character for the Year ... Great Britain, 1951 Current Opinion in Oncology, 1995 **Archives of Pathology & Laboratory Medicine**, 1993 *The Journal of Education* Thomas Williams Bicknell, Albert Edward Winship, Anson Wood Belding, 1876 **Cumulated Index Medicus**, 1992 *The South Australian Government Gazette* South Australia, 1900 Reports from Select Committees of H.C., and Evidence Great Britain. Parliament. House of Lords, 1899 **Minutes of Proceedings** London (England). School Board, 1884 Applied Science & Technology Index, 1996 High-throughput Sequencing-based Investigation of Chronic Disease Markers and Mechanisms, volume II Hua Li, Wen-Lian Chen, Yuriy L. Orlov, Guoshuai Cai, 2025-06-17 With the recent development of sequencing technology and the rapid reduction of sequencing costs high throughput sequencing including second and third generation sequencing is revolutionizing basic life science research and clinical research from various aspects High throughput sequencing often produces millions of sequencing reads at a time and the alignment or assembly of these reads allows the determination of various mutations e.g. SNV and Indels at the genomic level accurate gene expression quantification at the transcriptomic level and identification of histone or DNA modification at the epigenomic level. The resulting accumulation of enormous multi omics information has opened up a new era of finding effective disease markers and studying their roles in disease occurrence and development. Using high throughput sequencing various markers of chronic diseases such as cancer, heart disease, diabetes, and arthritis have been developed at all omics levels which have been used for diagnosis and classification of diseases, prediction of treatment effects, and prevention of diseases. The quickly and massively acquired multi omics data together with newly developed algorithms provide an excellent chance for the identification of more reliable biomarkers. This research topic aims at 1. developing new chronic disease markers at four levels i.e. genome, epigenome, transcriptome, and translatome with the help of high throughput sequencing and 2. delineating potential marker related mechanisms for chronic disease occurrence or development. This research topic covers a broad spectrum of interests and studies including both wet lab and dry lab results are more welcomed. More specifically this research topic welcomes contributions including but not limited to the following areas: 1. Identification of novel biomarkers for chronic disease detection especially in early stage or prognosis prediction using high throughput sequencing; 2. characterize the possible pathological causes of markers as well as the potential roles they play in disease initiation and development; 3. New high throughput sequencing techniques that facilitate the development of more effective biomarkers of chronic disease; 4. New algorithms or tools for *in silico* identification of effective chronic disease markers based on high throughput sequencing data. Please note that 1. the high throughput sequencing for genome, epigenome, transcriptome, and translatome i.e. ribosome

associated RNA is preferred for this topic 2 at least some dry lab results need to be validated with wet lab experiments 3 studies successfully uncovering biomarker related disease mechanisms will be highly preferred New England Journal of Education ,1876 **Votes & Proceedings** New South Wales. Parliament. Legislative Council,1896 **Report from the Select Committee on Aged Deserving Poor** Great Britain. Parliament. House of Commons. Select Committee on Aged Deserving Poor,Great Britain. Parliament. House of Lords. Select Committee on Aged Deserving Poor,1899 Journal of the American College of Cardiology ,1986-11 The Christian Advocate ,1898 **American Druggists' Circular and Chemical Gazette** ,1892 The academy ,1894 Readers' Guide to Periodical Literature ,1943 Minutes of the County Council and Reports and Minutes of Committees of the Council and Other Documents Submitted to the Council Lanarkshire (Scotland). County Council,1947

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