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Intellectual Property Office of Singapore
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PLQ 1, Paya Lebar Quarter
Singapore 408533

Our Ref: P000936SG1
Your Ref: 11202108495X

27 September 2023

Dear Sirs,

Re: Singapore Patent Application No. 11202108495X filed 13 February 2020
(Singapore National Phase of PCT/US2020/018039)
'Model Parameter Determination Using a Predictive Model'
Claiming priority from US 16/277,939 filed 15 Feb 19
Q Bio, Inc.
Our Ref: P000936SG1

We write in response to the Invitation to Respond to Written Opinion dated 11 May 2023 and the Written Opinion drawn up under Rule 46(1) of the Singapore Patents Act.

Patents Form 13A is being filed using the electronic online system.

The Applicant wishes to amend the specification of this application under Section 31(1) and Rule 48 of the Patents Act and Rules.

Pages 40 to 44 of the claims are being replaced with corresponding replacement pages. New page 45 of the claims is also being filed (total: 20 claims).

In order to effect the above amendments, we enclose a copy of the amendments to the specification formatted in accordance with the Patents Rules and Practice Directions.

The subject matter of the claims as amended is disclosed throughout the application as filed and we submit that there is no issue of added subject matter.

Claim 1 has been amended to delete, towards the end of the computing step, a stray "a" in the previous phrase "a at least". Claim 1 has also been amended to specify a step of modifying the model parameters and repeating the computing and the determining, when the accuracy is less than the predefined value. The subject matter of this amendment is disclosed at paragraphs [0044], [0082] and [0084] of the specification as filed.

Claims 2 to 4 are essentially unchanged.

Claim 5 has been amended to delete a stray "in" from the previous phrase "in an interactive measurement". We submit that no subject matter has been added as a result of this amendment.

Claims 6 and 7 are essentially unchanged.

Claims 8 and 9 have been amended to specify that the predictive model is a predetermined predictive model. We submit that no subject matter has been added as a result of this amendment.

Claim 10 is essentially unchanged.

Claim 11 has been amended to specify that the predictive model is a predetermined predictive model. We submit that no subject matter has been added as a result of this amendment.

Claims 12 and 13 are essentially unchanged.

Claim 14 has been amended to delete, towards the end of the computing step, a stray "a" in the previous phrase "a at least". Claim 14 has also been amended to specify a step of modifying the model parameters and repeating the computing and the determining, when the accuracy is less than the predefined value. The subject matter of this amendment is disclosed at paragraphs [0044], [0082] and [0084] of the specification as filed.

Claims 15 to 18 are essentially unchanged.

Claim 19 has been amended to specify a step of modifying the model parameters and repeating the computing and the determining, when the accuracy is less than the predefined value. The subject matter of this amendment is disclosed at paragraphs [0044], [0082] and [0084] of the specification as filed.

Claim 20 is essentially unchanged.

We submit that the subject-matter of the amendments is disclosed in the specification as filed. Accordingly, there is no issue of added subject matter, so that Section 84(2) is complied with. For the avoidance of doubt, the amendments are made without prejudice and the Applicant reserves the right to return to any of the deleted subject matter in either this patent application or any divisional patent application.

Turning now to the Written Opinion, we see that the Examiner accepts that previous Claims 1 to 20 are novel. In relation to inventive step, the Examiner states that the claimed subject matter is not obvious over any combination of the cited art.

We submit that the claims as amended are novel and inventive over the cited documents.

At Section VII, the Examiner raises a number of objections against the alleged lack of clarity of some of the claims.

With regard to the objection against the alleged lack of clarity of Claims 1, 14 and 19, the Examiner will see that we have amended these claims to clarify what happens when the accuracy is less than the predefined value. Specifically, these claims have been amended to specify that when

the accuracy is less than the predefined value, the method includes the further steps of modifying the model parameters and repeating the computing and the determining.

Claim 1 has been amended to delete the stray "a"; a corresponding amendment has been made to Claim 14. Claim 5 has been deleted to replace the "in" with an "an". We thank the Examiner for highlighting these typographical errors.

We submit that the claims as amended do not suffer from any lack of clarity.

In summary, we submit that the claims as amended are novel and inventive and comply with Section 14 and 15. The claims as amended are clear and comply with Section 25(5). We further submit that the subject-matter of the amendments is supported by the application as filed and that none of the amendments being proposed constitutes added subject-matter, so that Section 84(2) is complied with. The claims therefore meet the requirements of the Singapore Patents Act. Accordingly, a positive Examination Report is requested, and the Applicants look forward to the receipt of such a report.

On the other hand, if there is a likelihood that a negative Examination Report is being contemplated, then the Applicant specifically requests an opportunity to discuss any remaining objections by way of personal communication by telephone with the Examiner. In any case, a further Written Opinion under Rule 46(5) is requested.

Yours sincerely,



Dr Khoo Chong Yee
Cantab IP Pte Ltd