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10 June 2005

Bob Davis
Summit Computer System, Inc.
22685 Summit Road
Los Gatos, CA 95033-9310
bob@scsi.com

Re: P1953.1 - Standard for Sequence Ontology

Dear Bob:

I am pleased to inform you that on 09 June 2005 the IEEE-SA Standards Board approved the above referenced project until 31 December 2009. A copy of the file can be found on our website at <http://standards.ieee.org/board/nes/projects/1953-1.pdf>.

Now that your project has been approved, please forward a roster of participants involved in the development of this project. This request is in accordance with the IEEE-SA Operations Manual, Clause 5.1.2i under Duties of the Sponsor which states:

"Submit annually to the IEEE Standards Department an electronic roster of individuals participating on standards projects"

For your convenience, an Excel spreadsheet for your use has been posted on our website at <http://standards.ieee.org/guides/par/roster.xls>. Please forward this list to me via e-mail at j.haasz@ieee.org no later than 07 September 2005.

Please visit our website, IEEE Standards Development Online (<http://standards.ieee.org/resources/development/index.html>), for tools, forms and training to assist you in the standards development process. Also, we strongly recommend that a copy of your draft be sent to this office for review prior to the final vote by the working group to allow for a quick review by editorial staff before sponsor balloting begins.

If you should have any further questions, please contact me at 732-562-6367 or by email at j.haasz@ieee.org.

Sincerely,

Jodi Haasz
Program Manager
International Stds Programs and Governance
Standards Activities
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CC: suzi@fruitfly.org

PAR FORM

PAR Status: New PAR

PAR Approval Date: 2005-06-09

PAR Signature Page on File: Yes

1. Assigned Project Number: P1953.1

2. Sponsor Date of Request: 2005-04-11

3. Type of Document: Standard for

4. Title of Document:

Draft: Standard for Sequence Ontology

5. Life Cycle: Full-Use

6. Type of Project:

6a. Is this an update to an existing PAR? No

6b. The Project is a: New Standard

7. Working Group Information:

Name of Working Group: Sequence Ontology Working Group

Approximate Number of Expected Working Group Members:25

8. Contact information for Working Group Chair:

Name of Working Group Chair: Suzanna Lewis

Telephone: +1 510 486 7508 **FAX:** +1 510 594 9963

Email: suzi@fruitfly.org

9. Contact information for Co-Chair/Official Reporter, Project Editor or Document Custodian if different from the Working Group Chair:

Name of Co-Chair/Official Reporter, Project Editor or Document Custodian:

Telephone: FAX:

Email:

10. Contact information for Sponsoring Society or Standards Coordinating Committee:

Name of Sponsoring Society and Committee: Computer Society Microprocessors and Microcomputers

Name of Sponsoring Committee Chair: Bob Davis

Telephone: 408-353-2706 **FAX:** 408-353-8116

Email: bob@scsi.com

Name of Liaison Rep. (if different from the Sponsor Chair):

Telephone: FAX:

Email:

Name of Co-Sponsoring Society and Committee:**Name of Co-Sponsoring Committee Chair:****Telephone: FAX:****Email:****Name of Liaison Rep. (if different from the Sponsor Chair):****Telephone: FAX:****Email:****11. The Type of ballot is:** Individual Sponsor Ballot**Expected Date of Submission for Initial Sponsor Ballot:** April 2007**12. Projected Completion Date for Submittal to RevCom:** October 2007**Target Extension Request Information for a Modified PAR whose completion date is being extended past the original four-year life of the PAR:****13. Scope of Proposed Project:**

The Sequence Ontology is a well developed current working procedure in the Bioinformatics community, this work will formalize that methodology into a standard. The Sequence Ontology (SO) is designed for three different, but related, purposes. The first of these is to provide a structured controlled vocabulary for the description of features that may be describe by their spatial location upon sequences and thus annotate these sequences; the second is to provide a structured controlled vocabulary for the description of genes, in terms of their sequence characteristics; the third is to provide a structured vocabulary for the description of chromosome and sequence variation within organism. The SO will also provide associated tools for applying and using the vocabularies to support the exchange genomic sequence annotation.

Is the completion of this document contingent upon the completion of another document?

No

14. Purpose of Proposed Project:

The purpose of the SO is to facilitate the exchange and analysis of primary sequence data, whether these sequences are nucleic acids or amino acids. The "locatable feature" node provides terms for describing expressed or control regions on biological sequence, crucial to understanding the transfer and encoding of genetic information. The "sequence attribute" node of SO provides terms for describing "genes", for example, by their cellular location, by the properties of their primary transcripts and by the attributes of their processed transcripts. The "sequence variation features" node of the SO provides terms for the description of sequence variation. This enables organism databases to capture ploidy, chromosomal rearrangements, and mutational descriptions.

15. Reason for the Proposed Project:

The Sequence Ontology will provide a foundation for the development of bioinformatics software, analyses and storage. Sequences that are described using the SO become amenable to computational analysis and sophisticated data mining techniques. Such genome annotations can be traversed through the relationships defined in SO to perform logical inferences and manipulations of the data. This provides a powerful tool for the analysis of large datasets. Users

include biologists, chemists, bioinformaticians, biochemists. Industries include pharmacology, agriculture, medicine, national security.

16. Intellectual Property:

- a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR?** Yes 2005-04-11
- b. Is the sponsor aware of copyright permissions needed for this project?** No
- c. Is the sponsor aware of trademarks that apply to this project?** No
- d. Is the sponsor aware of possible registration activity related to this project?** No

17. Are there other documents or projects with a similar scope? No

Similar Scope Project Information:

18. Is there potential for this document (in part or in whole) to be adopted by another national, regional or international organization? Do not know at this time

If yes, the following questions must be answered:

Organization Name?

Technical

Committee

International

Contact

Information?

19. Will this project result in any health, safety, or environmental guidance that affects or applies to human health or safety? No

If yes, please explain:

20. Sponsor Information

a. Is the scope of this project within the approved/scope/definition of the Sponsor's Charter? Yes

If no, please explain:

b. The Sponsor's procedures have been accepted by the IEEE-SA Standards Board Audit Committee? Yes

21. Additional Explanatory Notes: (Item Number and Explanation)

20b MSC approved Model P&P pending at AudCom expect approval of in June. Old P&P is still active.