

**BioPAX Work Group**  
**March 2, 2005 Conference Call Minutes**

**Participants:** Gary Bader, Michael Cary, John Conroy, Ken Fukuda, Christian Lemer, Joanne Luciano, Elgar Pichler, Jonathan Rees, Alan Ruttenburg, Mustafa Syed, Jeremy Zucker

**Summary:**

1. Level 2 development status update
  - a. Versions
    - i. Alpha = complete ontology → Almost done
    - ii. Beta = complete ontology + full documentation → In progress
    - iii. Release candidate = fully tested → goal: by ISMB-2005
  - b. Remaining issue: Direct / Indirect
    - i. Separate slot or not (i.e. use INTERACTION-TYPE)?
    - ii. Alan: more complex issue, needs more discussion
      1. Special conference call to discuss
        - a. Wednesday, March 9th, 10 AM EST
  - c. Remaining issue: Mission-critical controlled vocabularies
    - i. Evidence code ontologies
      1. Two main groups building them: PSI and BioCyc
        - a. Not completely compatible (but some overlap)
        - b. Next PSI meeting: April, in Siena Italy
          - i. <http://psidev.sourceforge.net/meetings/2005-04/>
      2. Future: Work with these groups to create a recommended CV
        - a. Long-term goal, shouldn't postpone Level 2 for this
      3. For now: Use these ontologies as-is
      4. CV subgroup: Suzanne, Gary, Mike
        - a. Ken is also looking into evidence codes
2. Level 3
  - a. Goal: Alpha status by ISMB-2005
  - b. States subgroup has been discussing state issues: see below
3. LibBioPAX / conversion status
  - a. New Protégé API (by Holger Knubloch)
    - i. aMAZE group has looked at it; happy with it
    - ii. Better code than Kazuki
      1. Kazuki doesn't correctly handle inheritance, Protégé API does
    - iii. Jeremy will look at it also
    - iv. Comes with 3.0 version of Protégé (with OWL plug-in)
      1. See <http://protege.stanford.edu/plugins/owl/api/guide.html>
      2. Especially: "Building Semantic Web Applications" section
  - b. WIT
    - i. Mustafa sent sample files to Jeremy
      1. Small molecule and pathway files
    - ii. Waiting for sample N3 files from Jeremy

- iii. Jeremy's transport question: Should active transports that hydrolyze ATP be instances of transport-With-Biochemical-Reaction (tWBR)?
      - 1. ADDENDUM: BioPAX documentation indicates that yes, they should be.
      - 2. Mike & Gary will update documentation to make this clearer.
    - c. Reactome, Kohn maps – Joanne will see Geeta Joshi-Tope (and possibly Mirit Aladjem) in D.C.
- 4. Documents and abstracts
  - a. ISMB-2005 poster abstract: deadline = March 3 (tomorrow)
    - i. Joanne and Jeremy submitted a tutorial (was accepted)
  - b. DDT paper – has been submitted
- 5. State subgroup
  - a. First conference call was this morning at 8 AM EST
    - i. Included Emek Demir, Christian Lemer, Imre Vastrik, Mike Cary, Gary Bader, Ken Fukuda, Vincent Schachter
  - b. Discussed:
    - i. Physical vs. logical states
      - 1. Consensus: deal with physical states only for now
    - ii. State of complex vs. state of subunits
- 6. Other subgroups
  - a. External ontologies (a.k.a. “ontology bridging” subgroup) – Jon and Jeremy
    - i. Added to the agenda for BioPAX-Boston meeting
    - ii. Ken is interested in results of this discussion
  - b. Abstractions / Hierarchical pathways subgroup – Ken and Emek
    - i. Nothing to report yet
- 7. BioPAX-Boston
  - a. BioPAX interest group for Boston community
  - b. BioPAX-Boston@googlegroups.com
  - c. Meeting at MIT on Friday March 11
  - d. Mike will add a link to BioPAX-Boston to website
- 8. Grants
  - a. DOE III
    - i. Chris, Mike, and Gary spoke with John this morning
      - 1. 6 month report not necessary – info will be covered in re-application (due in June)
      - 2. John is open to us applying for renewal
        - a. Wants to see more deliverables by ISMB
          - i. Main deliverable: data
          - ii. Hopefully by ISMB: KEGG, WIT, and BioCyc sharing data
      - ii. Joanne will meet with John Houghton this afternoon
- 9. Future meetings
  - a. DARPA BioOntologies Workshop
    - i. Joanne currently attending
    - ii. Goal: Computable semantics in complex biological organisms
    - iii. Bringing together ontologists

- iv. Putting together roadmap for DARPA & bio-ontologies
  - v. Main need: Software to support application of ontologies
- b. ISMB 2005 in Detroit
  - i. Venue for next face-to-face meeting
- c. Japan F2F meeting: Oct / Nov 2005
  - i. Target date: mid-November
  - ii. Some travel support will be available
  - iii. 2 days semi-closed workshop, 1 day open symposium