

|    | Activity Name   | Start Date | Finish Date | Predecessor | Resources                     | Mar 05 |    |    | Apr 05 |    |    |    | May 05 |   |    |    | Jun 05 |   |    |    | Jul |   |    |
|----|---|------------|-------------|-------------|-------------------------------|--------|----|----|--------|----|----|----|--------|---|----|----|--------|---|----|----|-----|---|----|
|    |   |            |             |             |                               | 13     | 20 | 27 | 3      | 10 | 17 | 24 | 1      | 8 | 15 | 22 | 29     | 5 | 12 | 19 | 26  | 3 | 10 |
| 1  | Cytoscape 2.2   | 3/15/05    | 7/15/05     |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 2  |   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 3  | Development   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 4  | Graph Model and Operations  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 5  | Graph Model Extension   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 6  | analysis & design   | 3/21/05    | 4/8/05      |             | Allan, Aditya, Rowan, Nerius  |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 7  | Hypergraph support  | 4/11/05    | 7/1/05      | 6           | Allan, Aditya, Rowan, Nerius  |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 8  | Hyper-edge = meta-node  | 4/11/05    | 7/1/05      | 6           | Allan, Aditya, Rowan, Nerius  |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 9  | edge direction "clean up"   | 4/11/05    | 7/1/05      | 6           | Allan, Aditya, Rowan, Nerius  |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 10 | Layout API Development  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 11 | Beta framework available, verify completeness and support utilization by layout codes   | 5/9/05     | 5/13/05     |             | Nerius                        |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 12 | Data  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 13 | Internal Data   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 14 | File Format Redesign  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 15 | New internal file format / CYF format (Conditional upon resource availability)  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 16 | analysis & design   | 4/5/05     | 4/18/05     | 25          | Chris                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 17 | CyData external format: CYF   | 4/19/05    | 5/30/05     | 16          | Chris                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 18 | import from other formats (e.g., SIF, Node/Edge Attributes, etc.)   | 4/25/05    | 6/17/05     | 16          | Chris                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 19 | export to other formats   | 4/25/05    | 6/17/05     | 16          | Chris                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 20 | Save/Restore Project State  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 21 | analysis & design   | 4/5/05     | 4/25/05     | 25          | Mark                          |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 22 | consolidate definitions, state, work and project data into project structure (e.g., XML schema)   | 4/26/05    | 6/20/05     | 21          | Mark                          |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 23 | Data Objects Redesign   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 24 | GraphObjAttributes and ExpressionData merging/refactoring -> CyData   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 25 | analysis & design   | 3/18/05    | 4/4/05      |             | Nerius, Rowan                 |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 26 | normalize data operations   | 4/5/05     | 4/22/05     | 25          | Nerius, Rowan                 |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 27 | provide intuitive, consistent API   | 4/5/05     | 4/29/05     | 25          | Nerius, Rowan                 |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 28 | provide access to data by attributes or by node   | 4/18/05    | 6/3/05      | 27          | Nerius, Rowan                 |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 29 | maintain backwards compatibility for add/get Attributes, etc.   | 4/25/05    | 5/23/05     | 27          | Nerius, Rowan                 |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 30 | Performance   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 31 | Network Rendering Performance Improvement   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 32 | analysis & design   | 5/16/05    | 5/27/05     |             | Nerius                        |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 33 | Rendering of graphs/networks in Cytoscape is very slow relative to 1.1. Bring 2.2 rendering performance up to within some % (e.g., 20%) of 1.1  | 5/30/05    | 7/8/05      | 32          | Nerius                        |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 34 | Usability/Interface   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 35 | Graph editor  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 36 | analysis & design   | 3/18/05    | 4/8/05      |             | James, Allan, Aditya, Michael |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 37 | Node/edge creation/deletion   | 4/11/05    | 5/6/05      | 36          | James, Allan, Aditya, Michael |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 38 | Node/edge attributes  | 4/28/05    | 6/1/05      | 36, 25      | James, Allan, Aditya, Michael |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 39 | Node/edge visual properties   | 5/16/05    | 6/30/05     | 36          | James, Allan, Aditya, Michael |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 40 | layout functions: arrange, align, group/ungroup, distribute, etc.   | 4/11/05    | 5/13/05     | 36          | James, Allan, Aditya, Michael |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 41 | cut/copy/paste of networks and selected sub-networks  | 5/20/05    | 7/8/05      | 36          | James, Allan, Aditya, Michael |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 42 | CytoPanels  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 43 | analysis & design   | 3/14/05    | 3/25/05     |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 44 | floatable/dockable windows for presentation of data in manageable panels  | 3/18/05    | 4/22/05     | 43          | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 45 | new AttributesBrowser framework   | 4/11/05    | 7/1/05      | 43          | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 46 | Undo Manager (Conditional upon resource availability)   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 47 | analysis & design   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 48 | Undo framework (Swing provides something)   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 49 | user-defined actions (ie.g, from cytoscape.actions.*)   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 50 | API-level actions   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 51 | Domain-specific Functionality   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 52 | Support for Multiple Species  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 53 | analysis & design   | 3/21/05    | 4/8/05      |             | Melissa                       |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 54 | implementation  | 4/11/05    | 7/1/05      | 53          | Melissa                       |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 55 | Testing and Docs  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 56 | Functional testing  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 57 | J Unit - functional test framework  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 58 | Technical documentation   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 59 | Update, creation of new online help documentation   | 6/27/05    | 7/8/05      | 61          |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 60 | Creation of developer checklist for new code: javadoc, junit, code review (look for architecture points, easy optimizations, and general style), error checking - ?? (wouldn't this be nice to have...) |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 61 | User documentation  | 6/13/05    | 7/8/05      |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 62 | Web site maintenance  | 7/4/05     | 7/15/05     |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 63 | Bug Fixes   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 64 | Bug Management  | 3/21/05    | 7/12/05     |             | Gary                          |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 65 | Bug fix implementations   | 3/28/05    | 7/12/05     |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 66 | Enhancements  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 67 | ...   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 68 | System Testing / Release Preparation  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 69 | License check of libraries  | 7/1/05     | 7/2/05      |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 70 | Release Notes   | 7/4/05     | 7/6/05      |             | Mark                          |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 71 | Features List   | 7/4/05     | 7/8/05      |             | Mark                          |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 72 | Create Official Beta Releases   | 7/12/05    |             |             | Nerius                        |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 73 | Testing (Anyone and Everyone)   | 7/12/05    |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 74 | Bug Master  | 7/12/05    |             |             | Gary                          |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 75 | Bug Fixing (anyone who is available)  | 7/12/05    |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 76 | Change Cytoscape2_1.pdf to Cytoscape2_2.pdf   | 7/12/05    |             |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 77 | Copy new manual to cyto_web, so it will be available online   | 7/12/05    |             |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 78 | Update the cyto_web to reflect Cytoscape 2.2  | 7/12/05    |             |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 79 | Official Release  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 80 | Modify Version # in Build.xml   | 7/13/05    |             |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 81 | Officially tag the release  | 7/13/05    |             |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 82 | Create the final release files: .tar.gz and .zip  | 7/13/05    |             |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 83 | Create the Mac OS X Release   | 7/13/05    |             |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 84 | Create the InstallAnywhere release  | 7/13/05    |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 85 | Deploy the new release files to cbio.mskcc.org  | 7/14/05    |             |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 86 | Deploy latest javadocs to cbio.mskcc.org  | 7/14/05    |             |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 87 | Deploy new cyto_web files to cytoscape.org  | 7/14/05    |             |             | Ethan                         |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 88 | Send out official announcements   | 7/15/05    |             |             | Gary, Trey                    |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 89 | Update WebStart tutorial  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 90 | Cytoscape 2.2 Release (FCS)   | 7/15/05    |             | 1           |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 91 |   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 92 | External Related Projects   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 93 | BioPAX support  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 94 | Literature Search enhancements  |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 95 | PathBlast (Cytoscape plugin and web services)   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
| 96 | Node/neighbor expand/collapse plugin for browsing large   |            |             |             |                               |        |    |    |        |    |    |    |        |   |    |    |        |   |    |    |     |   |    |
|    |   |            |             |             |                               | 13     | 20 | 27 | 3      | 10 | 17 | 24 | 1      | 8 | 15 | 22 | 29     | 5 | 12 | 19 | 26  | 3 | 10 |