List of Products

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Person	Product Type	Product Information	Action
Pirrung, Megan	Software and Datasets	Title: **Phylotastic Website** Landing page for the Phylotastic project	View Edit Delete
Cranston, Karen	Presentations	Title: **Making the tree of life Phylotastic!** Keyword: *phylogenetics,hackathons* Cranston, K.A. 2012, "Making the tree of life Phylotastic!", iEvoBio, Ottawa, Canada	View Edit Delete
Bik, Holly and Steele, Aaron and Pontelli, Enrico and Harmon, Luke and Vos, Rutger and Alfaro, Michael and O'Meara, Brian and Heath, Tracy and Westneat, Mark and Brown, Joseph and Mirarab, Siavash and Stoltzfus, Arlin and Midford, Peter and Pirrung, Megan and Sidlauskas, Brian and Vaidya, Gaurav and Matasci, Naim and Deus, Helena and Sukumaran, Jeet and Rosenberg, Michael and Zmasek, Christian and Cranston, Karen and Webb, Campbell and Lapp, Hilmar	Publications	Title: **Phylotastic! Making tree-of-life knowledge accessible, reusable and convenient** Keyword: *phylogeny,taxonomy,hackathon,web services,data reuse,tree of life* Arlin Stoltzfus, Hilmar Lapp, Naim Matasci, Helena Deus, Brian Sidlauskas, Christian M Zmasek, Gaurav Vaidya, Enrico Pontelli, Karen Cranston, Rutger Vos, Campbell O Webb, Luke J Harmon, Megan Pirrung, Brian O'Meara, Matthew W Pennell, Siavash Mirarab, Michael S Rosenberg, James P Balhoff, Holly M Bik, Tracy A Heath, Peter E Midford, Joseph W Brown, Emily Jane McTavish, Jeet Sukumaran, Mark Westneat, Michael E Alfaro ...	View Edit Delete
Bik, Holly	Other Products	Title: **Social Media coverage (June 2012)** Blog post series and twitter coverage of Phylotastic hackathon. Posts published as follows: http://scientificcouture.blogspot.com/2012/06/phylotastic-hackathon-akin-to.html http://scientificcouture.blogspot.com/2012/06/phylotastic-day-2-collaborative.html http://scientificcouture.blogspot.com/2012/06/phylotastic-day-3-its-business-time.html http://scientificcouture.blogspot.com/2012/06/phylotastic-day-4-slooow ...	View Edit Delete

Stoltzfus, Arlin	Software and Datasets	Title: **Tools to convert trees of Goloboff, et al. (2009) from TNT to Newick format** Keyword: *tnt,goloboff,phylogeny,format conversion,shim services* The phylogeny from Goloboff, et al. "Phylogenetic analysis of 73 060 taxa corroborates major eukaryotic groups" (Cladistics 2009, 25:211-230) is a valuable resource, useful for the Phylotastic project. However, it is available only in TNT format, a nested-parenthesis format like Newick. The tree file has only numeric codes, with names encoded in a separate file. Converting this information into a single Newick tre ...	View Edit Delete
Balhoff, Jim	Software and Datasets	Title: **CDAO ontology release using OBO library conventions** The CDAO Comparative Data Analysis Ontology was revised to meet OBO library ontology standards, such as numeric class identifiers.	View Edit Delete
Balhoff, Jim	Software and Datasets	Title: **Phylotastic tree-pruning SADI service** A proof-of-concept SADI-based web service which uses RDF and SPARQL to return subtrees from larger phylogenetic trees.	View Edit Delete
Vos, Rutger	Software and Datasets	Title: **PhyloTastic services in Galaxy** Keyword: *webservices,workflows,phylotastic,galaxy,phyloinformatics* To provide end-users with a familiar graphical user interface with which to access PhyloTastic services I have developed several wrapper classes that enable interaction with TNRS, DateLife, BabelPhysh and pruning functionality within the Galaxy web application. A demo Galaxy instance is available at http://galaxy.phylotastic.org, the source code at https://github.com/phylotastic/arch-galaxy and a screen cast that dem ...	View Edit Delete
Heath, Tracy and O'Meara, Brian and Pennell, Matthew and Midford, Peter and Harmon, Luke and Eastman, Jonathan and Brown, Joseph	Presentations	Title: **DateLife** Keyword: *tree scaling,branch length estimation,fossil calibration* O'Meara, B., Brown, J., Eastman, J., Harmon, L., Heath, T., Midford, P., Pennell, M. (July 10, 2012) DateLife. iEvoBio 2012 Challenge entry, Ottawa, ON.	View Edit Delete
Matasci, Naim	Software and Datasets	Title: **Taxosaurus: A Phylotastic Taxonomic Name Resolution Service** Keyword: *tnrs,taxonomic names resolution service* Taxosaurus is a meta TNRS that implements the TNRastic API. It's composed by 2 main modules (the handler_library and the processor) that sit behind an http handler. The handler_library implements the TNRastic API whereas the processor coordinates the execution of the downstream calls to the sources. The processor itself has a modular design that allows the addition of new service via adaptors that are registered thr ...	View Edit Delete
Baron, Chris	Software and Datasets	Title: **Reconciliotastic** Keyword: *gene tree,species tree,reconciliotastic* Reconcili-o-tastic starts with a gene tree, discovers the species sources, gets a tree for the species on the fly (phylotastically), then runs reconciliation software to identify which branchings represent speciations vs duplications.	View Edit Delete
Vandervalk, Ben	Software and Datasets	Title: **prototype controller as Perl CGI script** The Perl controller coordinates stub CGI implementations of the Phylotastic TNRS, tree store, topology, and branch length services which produce correct output for one example input. However, the user may substitute real service implementations into the controller workflow via CGI parameters, allowing the services to be tested for conformance to the Phylotastic specification. Usage instructions for the CGI controller ...	View Edit Delete
Vos, Rutger and Stoltzfus, Arlin	Software and Datasets	Title: **Phylogeny pruner based on MapReduce with web page and services interface** Keyword: *phylotastic,tree of life,phylogeny,web services* Rutger Vos, 2012. A phylotastic pruning service based on MapReduce. HIP working group of NESCent. This pruner was developed to provide automated pruning services, as part of the Phylotastic project. Given a set { S } of OTU names, and the name of a source tree, the pruner returns a topology for the OTUs that it can match from { S }. This kind of pruning can be done by recursive calls into a database (which p ...	View Edit Delete

Lapp, Hilmar	Software and Datasets	Title: **Ontology and RDF model for Taxonomic Name Resolution Service results.** Keyword: *ontology,rdf,owl,tnrs* Lapp H. 2012. Ontology and RDF model for Taxonomic Name Resolution Service (TNRS) results. The ontology describes the entities that make up a TNRS result and the relationship between those and those between an OTU and a TNRS resolution result. The RDF model is accompanied by an instance document and a graph visualization.	View Edit Delete
Matasci, Naim	Software and Datasets	Title: **TNRastic API** The TNRastic API is a lightweight RESTful API specification that provides a generalized framework to access Taxonomic Name Resolution Services. It's composed of a set of services that are essential for name resolution.	View Edit Delete
Matasci, Naim	Collaborations	Title: **Mammal Species of the World** To support the resolution of mammalian taxonomic names, the TNRS group contacted DeeAnn Reeder, one of the editors of the most authoritative source for mammalian names: Mammal Species of the World, 3rd ed. [Don E. Wilson & DeeAnn M. Reeder (editors). 2005. Mammal Species of the World. A Taxonomic and Geographic Reference (3rd ed), Johns Hopkins University Press, 2,142 pp.]. We obtain permission to use and distribute ...	View Edit Delete
Sidlauskas, Brian	Report - Working Group Meeting	Title: **Report to NESCent on Phylotastic Hackathon 2** Here we report the accomplishments of the second Phylotastic Hackathon that took place at iPlantâs headquarters in Tucson, Arizona on January 28 through February 1, 2013. This second hackathon built upon the architecture that the first created, and moved the project closer to a fully-functional alpha version. When complete, the Phylotastic alpha will include working prototypes of the central Phylotastic operations, ...	View Edit Delete
Stoltzfus, Arlin and Midford, Peter	Software and Datasets	Title: **Mesquite-o-tastic - a Mesquite package for retrieving trees from Phylotastic** Keyword: *mesquite,phylotastic,trees,character matrix* Midford, P. E. 2012. Mesquite-o-tastic - a Mesquite package for retrieving trees from Phylotastic. This is a prototype package that allows a user to retrieve a tree from phylotastic that matches the taxa present in a Mesquite character matrix. See the demo video by Arlin Stoltzfus at http://www.youtube.com/watch?v=Lak-zjwFuhQ&feature=youtube_gdata_player	View Edit Delete
Stoltzfus, Arlin	Proposals and Grants	Title: **Collaborative Research: ABI Development: An open infrastructure to disseminate phylogenetic knowledge** Keyword: *interoperability,web services,phylotastic,hackathon,phylogeny* Arlin Stoltzfus, Enrico Pontelli and Brian O'Meara. 2014. "Collaborative Research: ABI Development: An open infrastructure to disseminate phylogenetic knowledge". National Science Foundation, 3 years funding from July 2015 to 2016.	View Edit Delete
Stoltzfus, Arlin	Proposals and Grants	Title: **Collaborative Research: ABI Development: Delivering the Tree of Life** Keyword: *phylogeny,tree of life,informatics,phyloinformatics,automated planning,web services,interoperability* Arlin Stoltzfus, Enrico Pontelli, Naim Matasci and Brian O'Meara. 2013. "Collaborative Research: ABI Development: Delivering the Tree of Life". National Science Foundation.	View Edit Delete