

## Data Migration from ResNet<sup>®</sup> 6 Mammalian Database to ResNet<sup>®</sup> 7 for Pathway Studio 7, Enterprise Edition

### Recommendations to Customers

The ResNet 7 Mammalian Data is a significant upgrade from the ResNet 6 database. This completely rebuilt ResNet 7 database incorporates Ariadne's latest generation of literature extraction technology and has been curated utilizing our proprietary technology to reduce redundancy and improve usability of the database. The database incorporates updated EntrezIDs and includes new additional annotation to provide more entity IDs for easier mapping as well as new Ariadne Ontology groups. In addition to Ariadne's Signaling and Cellular Process pathways, a new collection of metabolic reference pathways is now provided.

Additionally, Ariadne has expanded support for microRNA research in Pathway Studio 7 and introduced new predicted relationships as well as extending the entities recognized and relationships recovered with MedScan Technology. Because Ariadne plans further expansion of this support, the microRNA is being provided as a supplement to the ResNet Mammalian Database.

In order to take full advantage of these updates, it is recommended that Pathway Studio<sup>®</sup> Enterprise users upgrade their database. There are two options to successfully carry out a ResNet mammalian database upgrade. With either option, experimental data shall be re-imported into your database(s).

#### **a) Option 1 – Install a new clean database**

With this option, you will end up with a new database. Export all the end user's account settings and their personal work (pathways and groups), public pathways and groups. Install PSE Server 7 with Mammalian ResNet 7; recover user accounts and import pathways and groups from the old database into the new database. However, any modifications that have been done to the ResNet 6 database (such as manual edits and import of additional information from MedScan searches) will not be migrated and are lost. Note that Mammalian ResNet 7 database come with updated PubMed information.

This option requires that you create a new database schema where the new dataset will be imported. Your old database schema will be upgraded to the new version as well and can be used in parallel with the new one. Please refer to the PSE 7 Installation guide for additional information.

The database migration process involves the following major step:

- Creating and populating the new database;

Additionally, the following steps are required if you would like to transfer the user data from the old database into the new database:

- Upgrading the old database schema to version 7;
- Converting relations and entities in the old database to Pathway Studio 7 format;
- Exporting user account settings and user data to a file;
- Importing user accounts and user data into a new database.

#### **b) Option 2 – Migrate existing database to PSE 7 format**

With this option, you will maintain modifications you made to ResNet 6. This option involves migrating your existing Pathway Studio 6 database to Pathway Studio 7 format. You will be able to import new information from ResNet 7, such as the new entities, relations, pathways, updated GO, and Ariadne Ontology. However, the clean-up that we have done to the ResNet 7 database (such as updating Entrez Gene ID, functional

classes, and application of the ResNet Curator to condense the database) will be lost. There may be redundancies that will have to be manually cleaned up.

The database migration process involves the following major steps:

- Upgrading the database schema to the latest version;
- Converting relations and entities in the old database to the Pathway Studio 7 format;
- Importing ResNet 7 dataset atop of the ResNet 6 dataset.

For more specific information about migrating your data to the Pathway Studio 7/ResNet 7 format, please contact a technical support representative.

**Ariadne Technical Support**

**Call Monday – Friday 9:00 am – 5:00 pm, Eastern Time (GMT -5:00)**

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