



## Sentient Suite

# Supported Data Types and Databases

### Data Types / formats

#### Experimental/research data:

- Proteomics, metabolomics .GSC, .GSP, .GIM, .CDF  
(e.g. 2D-DIGE, LC, MS, Bio-Rad, AIA, AMDIS, etc.)
- Genomics .CEL, .CNT, .CHP, .EXP, .PGF, .CLF  
(e.g. Partek, Affymetrix, etc.)
- Microscopy, images .ZVI, .BCR, .SPM, .MDT  
(e.g. Zeiss, SPIP, nSurf, FISH / image formats below)
- Molecular structure .MSV, .PDB, .MOL, .MDL, .SKC, .VAL, .ACD, .MSV,  
.PDB, .MOL, .MDL, .SKC, .SK2, .S3D, .CDX, .CHM,  
.CDXML (e.g. WebLab, NCBI Cn3D, ChemDraw/Sketch)

#### Documents:

- Excel, delimited data .XLS, .XLSX, .CSV, .TSV
- Text, reports .DOC, .DOCX, .TXT, .PRN, .RTF, .PDF, .PPT, .PPTX,  
.PPS
- Web .HTM, .HTML

#### Semantic formats:

- W3C Standard formats .RDF, .N3, .NT, .OWL,
- Open Biomedical Ontology .OBO

#### Image file formats:

- Windows Bitmap Files .BMP
- CompuServe Graphics Interchange .GIF
- Flash Pix .FPX
- JPEG Joint Photographic Experts Group-compliant .JPG, JPEG
- Microsoft Paint .MSP
- Photoshop .PSD
- Kodak Photo-CD .PCD
- Portable Network Graphics .PNG
- Tagged Image File Format .TIF, .TIFF
- TrueVision Targa images .TGA



- Windows Metafile .WMF
- Windows Clipboard .CLP
- ZSoft Paintbrush .PCX
- Portable Network Graphics .PNG
- Sun Raster .RAS
- Silicon Graphics .SGI
- Swiss Institute for Bioinformatics' Melanie .MEL
- Amersham imager format .GEL,
- LZW-format compressed images (TIFF, GIF87, GIF89a, multi-frame GIF)

### **Medical Imaging (with and without de-identification, HIPAA compliant):**

- DICOM .DCM, .DIC, .DLK, .DMC
- Neuroimaging .NIFTI, .ANALYZE

Standards-based medical formats such as PAX, C-DISC, HL-7 and others can be supported, but are not included out of the box.

## **Supported Databases**

### **Semantic “triple store / quad store” databases:**

- Oracle 11g
- Franz AllegroGraph
- OpenLink Virtuoso

### **Relational databases:**

- MySQL (3 – 5)
- SQL Server (2003 – 2010)
- Oracle (8 – 11g)
- IBM DB2 (8 – 10)

Additionally, specific proprietary databases such as (but not limited to) the following can be accessed via the Sentient Web Query without additional development efforts:

- Aureus
- Cellomics
- SlidePath / Distiller