

Release Notes: VivoQuant 2021

Release Date: Friday, 21 January 2022

This VivoQuant 2021 release introduces many enhancements to existing features as well as new modules to support analysis and workflows. This release also addresses a series of bugs and issues from previous releases.

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Table of Contents

ENHANCEMENTS	2
BUG FIXES	4
KNOWN ISSUES	6

Enhancements

The following user stories are part of the VivoQuant 2021 release:

VQ-1640	Worklist Tool: Only open DICOM files automatically when opening or appending a task
VQ-1613	Worklist Tool: Do not insert submit button in JSON forms
VQ-1608	Worklist Tool: Continued YML forms support with eCRF
VQ-1607	Worklist Tool: Sorting by column in the worklist view causes subsequent columns to clear when refreshed
VQ-1558	Worklist Tool: Change the task view table to be scrollable so it can be displayed at any size.
VQ-1547	Worklist Tool: Hide Blocking Queries/Edit Initial Submission Form button and list of related tasks in a form when shown in VQ
VQ-1423	Worklist Tool: Worklist Filter should remember previously chosen project for a repository
VQ-1371	Documentation: update local and online link to manual
VQ-1325	Worklist Tool: Show whether a task is blocked
VQ-1303	Worklist Tool: Open files externally
VQ-1302	Worklist Tool: Handle new submissions endpoint for JSON format
VQ-1190	Worklist Tool: Support JSON forms
VQ-1100	Worklist Tool: Right click menu to perform operations on task data
VQ-1099	Worklist Tool: Show analysis results for tasks
VQ-1098	Worklist Tool: Use the route variable to determine what files VQ shows associated with each task
VQ-1308	MatrixManipulationTool: Improve paste error message
VQ-980	MatrixManipulationTool: Transform operations
VQ-979	MatrixManipulationTool: Copy and paste operations
VQ-978	MatrixManipulationTool: Module and UI creation
VQ-977	MatrixManipulationTool: Import and export transforms
VQ-936	Brain Atlas: Option to save the resulting linear transformations
VQ-933	Worklist Tool: Additional query filters
VQ-932	Worklist Tool: UI Revamp
VQ-931	VivoScript: Quiet flag for VQ.openDat() with planar data
VQ-924	VivoScript: Add step size as an option to getValues() for double inputs
VQ-913	Distance/Annotation Operator: Editing annotation fields
VQ-911	Distance/Annotation Operator: Customizable Columns in the Annotation Table
VQ-909	Build: Update Ceres solver for Windows and Mac version
VQ-889	VivoScript: getTextInteractive() does not use supplied mode to set visibility of entered text
VQ-846	Preprocessing Tool: Handle Decay Correction for dynamic data
VQ-843	Preprocessing Tool: Script control for individual parameters for SUV calculation
VQ-839	VTK Viewer: Add extra debug information on failure to create
VQ-828	Worklist: Integrate REST API for VQS Queries

VQ-827	Brain Atlas: Scale Quant Data
VQ-821	VTK: Grab topmost point if points are overlapping in Opacity ramp
VQ-804	VivoScript: Review editable DICOM fields
VQ-793	Audit Trail: script cancel reason prompt
VQ-792	Audit Trail: audit log for slack messages
VQ-791	Audit Trail: support script versioning
VQ-781	ImageLoader: Support calibration factors for Nifti data
VQ-773	Multi-View: Change "Show ROIs" state for multiple viewports simultaneously
VQ-761	Add Layer name to ROI information tooltip
VQ-754	VTK: Camera spline movement GUI
VQ-745	VTKMIPCropBox: Redesign MIP clipping control with controller and cropping operator
VQ-735	Brain Atlas: Deprecate moving images in the datalist based on their modality
VQ-718	DicomLoader: JPEG2000 support for padded encoded buffer
VQ-677	DICOM Browser - Query DICOM Header for non-downloaded Files
VQ-671	Config: Default settings
VQ-669	Reset button to MIP control
VQ-649	Distance/Annotation: Rectangular annotations
VQ-648	Brain Atlas: VQS function to get the whole dialog and deprecate individual ScriptMaster NMCT functions
VQ-626	Brain Atlas Wizard: VQS functions
VQ-625	Brain Atlas Wizard: Delete Existing Atlas
VQ-624	Brain Atlas Wizard: Atlas name page
VQ-623	Brain Atlas Wizard: Key file page
VQ-622	Brain Atlas Wizard: ROI page
VQ-621	Brain Atlas Wizard: Navigation
VQ-620	Brain Atlas: Custom atlases wizard
VQ-619	Brain Atlas: Create or remove atlases
VQ-610	Registration: Add SyN registration parameters to UI
VQ-599	Distance/Annotation Operator: Viewing and editing an annotation's fields
VQ-132	VivoScript - Query the DICOM header for non downloaded files
VQ-130	Multi-View: Default automatic layout
VQ-127	DICOM: Add Support for FrameContentSequence Stacks
VQ-126	Registration: Add SyN registration an option to VQ registration
VQ-121	3D ROI Tool: Preview Segmentation
VQ-120	Reorientation/Registration Operator: Ability to invert saved transforms
VQ-119	VivoScript: Allow multiple inputs to getText
VQ-118	Brain Atlas: Add UI Option for Adding Custom Atlases
VQ-117	Quant Table - Display units of the mean column
VQ-115	Brain Atlas: Add cropping box dimensions information
VQ-46	Multi View: Save Show/Hide ROI state per viewport
VQ-35	VTK: Improved VivoScript support for VTKViewer Control
VQ-34	Modeling Operator: AUC Calculator
VQ-25	Time Series Operator: View ROIs
VQ-12	3D ROI Tool: Add right-click option to set min/max for auto-segmentation tools

Bug Fixes

The following bugs have been addressed:

VQ-1641	Worklist: Remember credentials when reloading a task
VQ-1615	Worklist: When a pipeline results in an error, the task view should not try to show any files for the task
VQ-1581	Audit Trail: When the 'Suspended' dialog modal is closed the cancellation reason modal is not displayed.
VQ-1580	Cropping Tool: DICOM dump does not contain the results of dimensions before applying the cropping.
VQ-1579	Reorientation: memory increases after the reorientation is applied.
VQ-1578	Multi View: Hanging Protocol don't change from 'Default' to 'None' when an image is dragged from Data Manager into view.
VQ-1577	Worklist Tool: Get Analysis Results files from the webdisk when a protocol is a subproject of another project on the ipacs
VQ-1572	VTK - The keyboard shortcut is enabled when 'vtkAutoUpdateRendering' is set to false.
VQ-1565	DICOM Repository: A new repository is added after editing a repository
VQ-1561	VTK Viewer: Crash with CPU mode while moving clipping or cropping box
VQ-1559	Worklist Tool: Reopening the same task form does not trigger the vqFormLoaded event so Submit button may not be added
VQ-1553	Annotation: Line Annotation are incorrectly loaded from CSV files
VQ-1478	VTK Viewer: Interaction with a line does not work if there are other types of annotations before it in the annotation list
VQ-1469	Save DICOM: Project dropdown should contain full list of a repository's projects regardless of the project selection in the Data Browser
VQ-1447	Annotations: Rectangle Annotation is incorrectly loaded from CSV
VQ-1434	Worklist: Form displaying with error for last task of the submission
VQ-1431	Worklist: Insert Submit button for iPACS YAML forms
VQ-1422	Worklist: Project should be used in worklist query for older (2.03) ipacs
VQ-1421	VivoScript: Crash when no scriptargs are provided
VQ-1420	Worklist: Crash after sort the Worklist and refresh
VQ-1414	VTK Viewer: Surface rendering does not work on Mac OS
VQ-1397	Worklist: Project Filter dropdown should use full list of all projects on the ipacs
VQ-1082	DataManager: Do not add a derivation description change for internal fields
VQ-990	DICOM Repository - Test option uses data cached
VQ-989	DICOM Repository - Unable to edit repository name
VQ-981	Issue with VQ when loading .gel files
VQ-946	BrukerImport: New bruker PV 360 data files load incorrectly
VQ-929	ScriptMaster: Variable reassign incorrectly interpreted as script eval result
VQ-927	DicomRepository editor in Configuration: Pressing cancel can result in saving a null repository and subsequent VQ crash

VQ-922	Data Browser - Projects list is still displayed after removing all repositories.
VQ-920	Bruker Store Data: project list is only displaying the last used project from DicomBrowser
VQ-917	VivoScript: Application gets closed after clicking on "Edit Script" button
VQ-914	Two buttons inaccessible on Mac when MIP is enabled
VQ-910	Distance/Annotation: Dragging a circle's radius does not correspond to the real radius
VQ-902	VTK Viewer: rotation on volume is still applied when mouse is not moving
VQ-901	VTK Viewer: changing the clipping plane makes the volume disappear or VQ crash
VQ-899	RadionuclideTotalDose units read incorrectly
VQ-897	ROI Preview: Update preview on parameter change for the K-Means Manual option
VQ-896	ROI Preview: Hide preview checkbox for K-Means Automatic and Seed ROIs tabs
VQ-886	Audit Trail: Prompt for cancel reason shows twice if the "Stop Script" button is clicked while an input dialog (Suspend etc) is open
VQ-857	Distance Operator: Pressing Shift on MacOS while drawing a Circle/Line
VQ-840	Display artifact in Preprocessing Tool
VQ-835	Key Files page doesn't accept any Left.csv naming format
VQ-829	SSL Warnings for Revoked and Pinning-Test
VQ-824	Key Files page wording is misaligned
VQ-823	ROI Upload: Cancel has no effect in retry dialog showing upload failure
VQ-814	Hover text for Username and Password in DICOM Repo are switched
VQ-799	DICOM Cache: usage percentage doesn't update properly when it reaches above 100%
VQ-798	Bruker series do not correctly load via the iPACS Data Browser in VQ
VQ-797	DicomWriter: Merged dynamic data seriesType does not change to Dynamic
VQ-765	Layout Operator: Default Hanging Protocol resets an edited layout when switching back from Slice View
VQ-762	ROI: Resampling issue when loading new data
VQ-756	Custom Brain Atlas: Selecting only a subset of ROIs in the ROI selector doesn't save a correct .rma
VQ-743	VTKMIPCropBox: reset to original extent when cropping operator deactivated.
VQ-740	Custom Brain Atlas: VQ quits when data is loaded and trying to create custom atlas
VQ-739	Filtering: Crash with BFC and Append Data
VQ-726	DICOM Loader: Philips PET calibration factors not parsing properly
VQ-693	Modeling Operator: issue with Fat model plot and curve when excluding image subset
VQ-690	DicomLoader: VQ cannot compute orientation for multi frame group dicom
VQ-559	ROI quantification datapoint "frame"
VQ-557	Brain Atlas Tool with multiple image types
VQ-158	Splitting Operator: Maintain RGB Values
VQ-157	Inconsistent resampling between Brain Atlas and Resampling tools
VQ-156	Views: display artifact when viewports change size

VQ-155	Cropping: Auto crop use all frames for collapsed dynamic data
VQ-154	Multi-View: Smarter Reset of Selected Hanging Protocol
VQ-153	Distance Operator: crash after mouse movement when selected annotation was deleted and annotation list is empty
VQ-149	VivoScript: VQ.querySeries() does not work for local dicom repositories
VQ-148	VivoScript: queryStudies() fails on filters with an '&' character in the string
VQ-146	File Menu: Gray out "Connect To iPACS" in Unregistered Mode
VQ-144	Colorbar gets stuck at max if dragged and dropped there
VQ-143	Append Data loads into reference after Brain Atlas Tool has run
VQ-141	Resample: Downsample to multiple of original size issue
VQ-140	VivoScript: Destination index of deleteROI() is post-delete index
VQ-138	Grow Ref to Input Volume Fails with Planar Data
VQ-137	Data Manager: Stack Data ignores reference resize setting
VQ-136	Data Manager: Stack Data unloads the wrong images
VQ-111	Network: Robust Error Handling and Progress Bars for Network Transfers
VQ-106	Leaving the Multi View causes Show ROI state to reset
VQ-99	3D Viewer: remove .mng output format
VQ-96	iPACSWebDisk SSL error handling
VQ-74	ImageLoader: Static Data interpreted as Dynamic Data -- issue with handling MR tags

Known Issues

The following known issues have been slated for the VivoQuant 2022 release:

VQ-85	VTK View: MPR slices should be affected by reorientation operator transforms
VQ-94	Data Manager: Min/Max update after image swap
VQ-651	Image Loader: Loading 2D image over 3D volume causes memory allocation error
VQ-1001	Annotation: Annotations can be shown many times
VQ-1394	Splitting Operator: canceling splitting data cause operators to close
VQ-1470	Annotation: Rescaling annotation using VQS is not working fine
VQ-1492	ImageLoader: issue when loading a 4D Phillips DICOM file with PerFrameFunctionGroupSequence