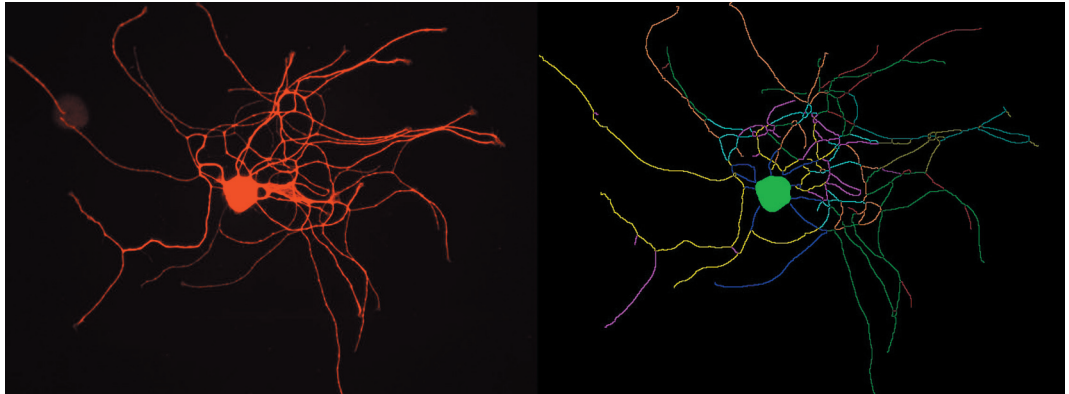


# HCA-Vision for Fast High Content Analysis

HCA-Vision is an automated image analysis software package that rapidly and reproducibly measures functional features of neuronal cells in 2D images.



Measuring changes in cell morphology is a time-consuming, labour intensive process. Researchers spend hours manually tracing cell-shapes. And it's subjective. One person's results can easily differ from another's, undermining reliability.

CSIRO, Australia's largest research agency, has developed high content analysis software that automates the process, reproducibly analysing complex cell images in seconds. Based on decades of image analysis research by CSIRO, the underlying code has already been licenced and built into drug screening equipment for three of the world's major pharmaceutical instrument manufacturers.

Now CSIRO's high content analysis software is available to research labs everywhere. With HCA-Vision, even researchers in small labs can share the technology used by big pharma.

## Who it's for

- Neuroscience researchers in universities, research institutes, hospitals etc
- Researchers in life science and pharmaceutical companies conducting target identification/validation and compound screening

## What it does

HCA-Vision guides the user in the process of choosing optimal parameters for the automated segmentation of neuron bodies and neurites. It delivers quantitative measures and statistics that are biologically relevant.

Above: Primary rat brain neurons displaying a high degree of neurite branching complexity, as measured by CSIRO's HCA-Vision software. Images courtesy of Prof P Doherty, King's College, London.

For example, the neurite outgrowth module of HCA-Vision measures important morphological properties such as:

- number of branching points
- total neurite length
- number of branch layers
- number of primary branches

## Features

- available as a complete stand-alone package or as modules for integration into third-party systems
- images and numerical results can be exported in a wide range of formats
- full batch processing capabilities
- provides detailed, relevant information
- optimised for speed
- easy to use – parameters are intuitive, can tune parameters and immediately see effects, step-by-step/Wizard-based process, interactive with real-time response
- can store parameter profiles for similar assay conditions
- statistics available per cell or at population level
- based on .NET technology

New modules will be developed. For example, modules are planned in the area of cell co-culture analysis and nuclear damage. Talk to us about these.

## Try it for free

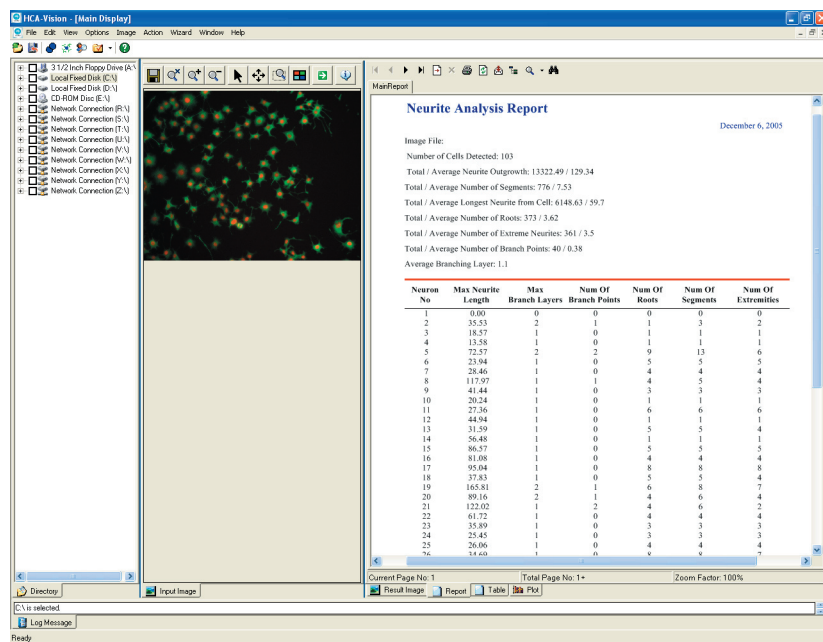
You can try HCA-Vision for 30 days, free.

For HCA-Vision users, CSIRO provides:

- extensive on-line help
- tutorials on the web
- email technical support

To request a demo version of HCA-Vision or for more information, visit our website [www.csiro.au/hca-vision](http://www.csiro.au/hca-vision) or email [hca-vision@csiro.au](mailto:hca-vision@csiro.au).

HCA-Vision is competitively priced. We also offer, for a fee, customisation of the product.



## Contact Us

Phone 1300 363 400  
+61 3 9545 2176  
Email [enquiries@csiro.au](mailto:enquiries@csiro.au)  
Web [www.csiro.au](http://www.csiro.au)

## For further information about HCA-Vision:

Contact Dr Pascal Vallotton, Leader, Biotech Imaging  
Phone +61 2 9325 3208  
Email [pascal.vallotton@csiro.au](mailto:pascal.vallotton@csiro.au)  
Web [www.csiro.au/hca-vision](http://www.csiro.au/hca-vision)