

# Agilent CytoGenomics 1.0

## Product Overview Guide

Research Use Only. Not for Diagnostic Procedures.

What is Agilent CytoGenomics? 1

Learning Roles and Responsibilities 3

To start the program 3

If your role is to run analyses and review data (Technician) 4

If your role is to set up workflows and sign off results (Scientist) 5

If your role is to install the software and manage the system  
(Administrator) 7

Getting Help 8

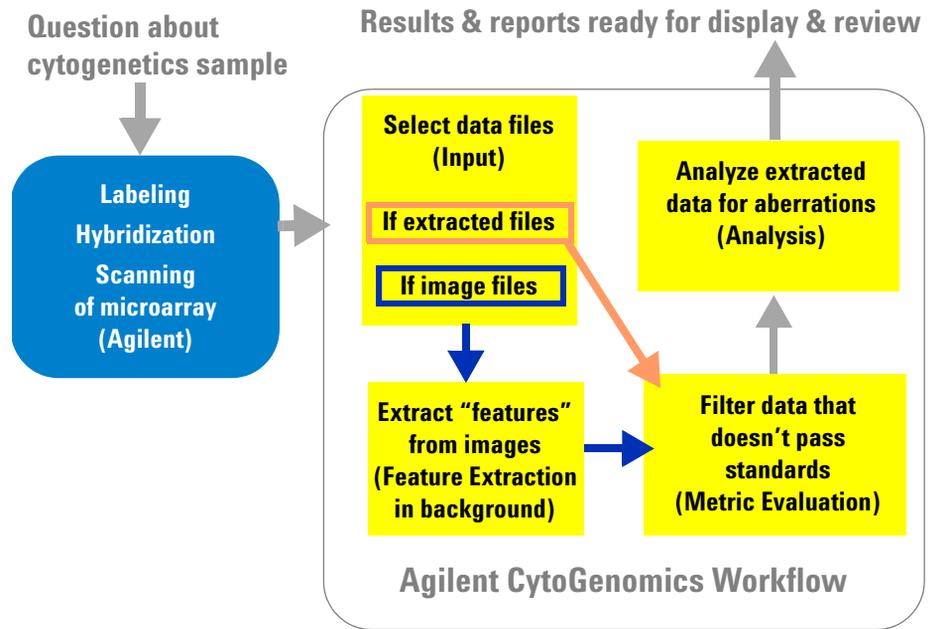
## What is Agilent CytoGenomics?

Using Agilent CytoGenomics software is a rapid way for cytogenetics laboratories to set up, analyze and view CGH and CGH + SNP microarray data for researching cytogenetic changes in research samples.

On the next page is a diagram that shows the process underlying the Agilent CytoGenomics workflow ([Figure 1](#)). This automatic process takes a microarray image through Feature Extraction, and extracted data through filtering and DNA analysis, to produce aberration results whose calls can be added or suppressed and to generate a variety of reports, including editable Cyto Reports.



Agilent Technologies



**Figure 1** Agilent CytoGenomics Workflow - from image to result

With Agilent CytoGenomics, the cytogenetics laboratory sets up and runs workflows fundamentally described in [Figure 1](#) but specifically created to analyze its own samples and answer research questions.

To help the laboratory organize its work, Agilent has built tasks around three roles: Technician, Scientist and Administrator.

**Table 1** Three Roles and their Descriptions

<b>Role</b>	<b>Tasks Users Can Do with Agilent CytoGenomics</b>
Technician	Run workflows, manage workflow jobs, view results, check out samples and add or suppress calls (no signoff capability)
Scientist	Technician tasks, plus set up samples, workflow components and workflows; sign off results; evaluate and chart results
Administrator	Everything! Technician and Scientist tasks, plus add users and roles, and manage the database

## Learning Roles and Responsibilities

This section assumes Agilent CytoGenomics has already been installed. If you are the Administrator for this system, see “[If your role is to install the software and manage the system \(Administrator\)](#)” on page 7.

Before you can understand your role and its responsibilities within Agilent CytoGenomics, you must start the program. How you start the program depends on its location.

### To start the program

#### If an icon for the program is on the desktop

- 1 Click .
- 2 In the Login Window enter your **User Name** and **Password** and click **Ok**.  
This is usually the user name and password you use to log onto the computer or the corporate network. If you do not have or cannot remember one or both, please see your Administrator.
- 3 If another message appears indicating a domain error, and your computer is part of a network, please see your Administrator.

If your computer is a local machine, click **OK**.

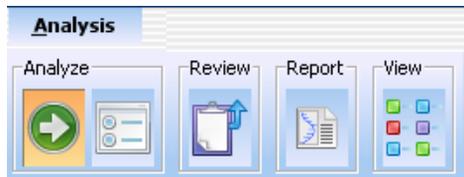
The main window for your role appears.

#### If there is no icon for the program on the desktop

- 1 Click **Start**.
- 2 If you see **Agilent CytoGenomics Edition X**, where X is the version number, double-click the name.  
If you do not see the name in the list, click **All Programs > Agilent CytoGenomics Edition X**.
- 3 Follow the instructions in step 2 of “[If an icon for the program is on the desktop](#)”.

## If your role is to run analyses and review data (Technician)

Here's what you see when you first open Agilent CytoGenomics



**Figure 2** Tab and commands available for Technician role

### Here's what you can do

- Run workflows with CGH or CGH + SNP samples to analyze for aberrations
- Display and manage workflow jobs
- View the graphic results and reports to assess if you need to re-run any sample
- Review results – check out samples and add or suppress calls

The person given the role of Scientist has already set up workflows you will use to run the analyses. That person is also likely to check results in and out and add or suppress calls, even though you also have the capability.

### Here's how you do it

Follow the instructions in the *Running CytoGenomics Analyses User Guide*.

If you want to learn more about how to create workflows or review results, see the *Setup and Data Review User Guide*.

Descriptions of windows and dialog boxes for all roles are in the *Reference Guide*.

To find these guides, see [“To get help from the Help guides”](#) on page 8.

## If your role is to set up workflows and sign off results (Scientist)

Here's what you see when you first open Agilent CytoGenomics



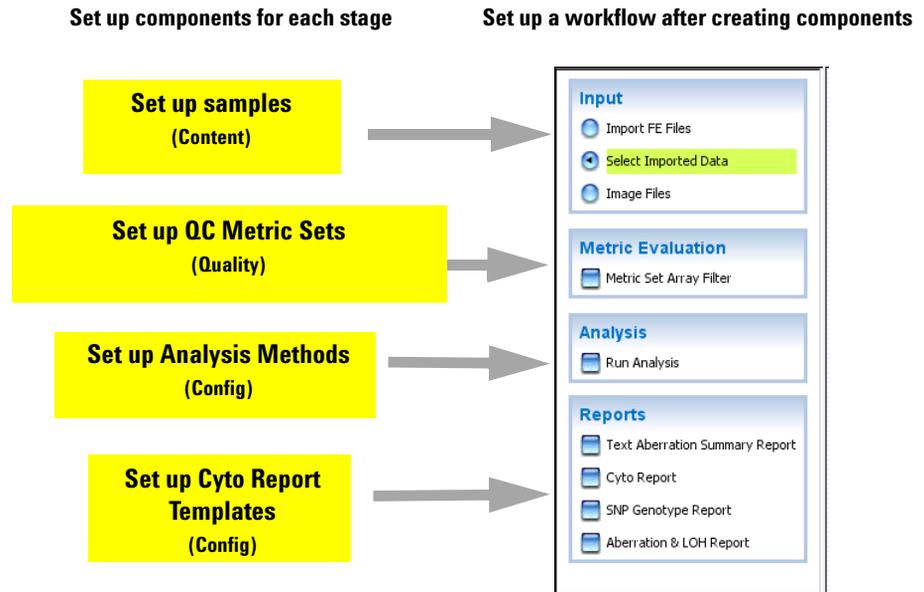
**Figure 3** Tabs available for Scientist role and Content commands

### Here's what you can do

Everything Technicians do—run workflows, manage jobs and review results

*Plus*

- Set up components needed to run each stage of a workflow
- Set up the workflow after setting up its components



- Sign off results
- Use Quality tools to search for and evaluate results, and produce QC charts

### **Here's how you can do it**

To set up workflow components and workflows, follow the instructions in the *Setup and Data Review User Guide*.

To run workflows, follow the instructions in the *Running CytoGenomics Analyses User Guide*.

To review and sign off results and use Quality tools for evaluating and charting results, follow the instructions in the *Setup and Data Review User Guide*.

Descriptions of windows and dialog boxes for all roles are in the *Reference Guide*.

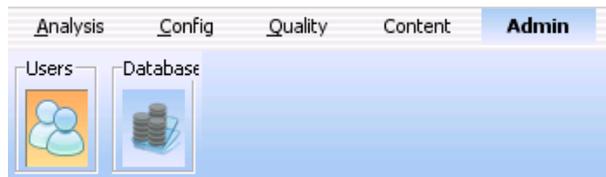
To find these guides, see [“To get help from the Help guides”](#) on page 8.

## If your role is to install the software and manage the system (Administrator)

### Here's what you do first

Follow the instructions in the *Installation and Administration Guide* for installing the software.

### Here's what you see when you first open Agilent CytoGenomics



**Figure 4** Tabs available for Administrator role and Admin commands

### Here's what you can do

Everything! All that Technicians and Scientists can do

*Plus*

- Add users and roles
- Manage the system

### Here's how you can do it

Read this guide.

Follow the instructions in the *Installation and Administration Guide* for adding users and roles.

Give all your users a copy of the *Product Overview Guide* to read before they start the program.

For finding help for all other tasks, see [“To get help from the Help guides”](#) on page 8.

## Getting Help

### To contact Agilent Technical Support

Technical support is available by phone and/or e-mail. A variety of useful information is also available on the Agilent Technical Support Web site.

Resource	To find technical support contact information
Agilent Technical Support Web site	<ol style="list-style-type: none"><li>1 Go to <a href="http://chem.agilent.com">http://chem.agilent.com</a>.</li><li>2 Select a country or area.</li><li>3 Under Quick Links, select <b>Technical Support</b>.</li><li>4 Select from the available links to display support information.</li></ol>
Contact Agilent Technical Support by telephone or e-mail (United States and Canada)	Telephone: (800-227-9770) E-mail: <a href="mailto:informatics_support@agilent.com">informatics_support@agilent.com</a>
Contact Agilent Technical Support by telephone or e-mail (for your country)	<ol style="list-style-type: none"><li>1 Go to <a href="http://chem.agilent.com">http://chem.agilent.com</a>.</li><li>2 Select <b>Contact Us</b>.</li><li>3 Under Worldwide Sales and Support Phone Assistance, click to select a country, and then click <b>Go</b>. Complete e-mail and telephone contact information for your country is displayed.</li></ol>

### To get help from the Help guides

To find help for the tasks for each role within Agilent CytoGenomics, click **Help** in the upper right corner.

### To learn about Agilent products and services

To display information about the Life Sciences and Chemical Analysis products and services that are available from Agilent, go to [www.chem.agilent.com](http://www.chem.agilent.com).



[www.agilent.com](http://www.agilent.com)

## In this book

This book provides an overview of Agilent CytoGenomics. It shows the overall design of the software and how different users can work with it to fulfill their roles in the laboratory.

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