



INSTRUMENT USAGE SHEET

AGILENT MICROARRAY SCANNER G2565CA WITH ARRAY/NGS ANALYSIS STATION

General Information

Instrument: Agilent Microarray Scanner G2565CA with Array/NGS Analysis Station

Brand: Agilent

Location:

CRIETT – Bassani Building
Via Dunant, 5, Varese/Como
Floor: -1

Contact Person:

- Prof. Roberto VALLI
- E-mail: roberto.valli@uninsubria.it
- Phone: +39 0332 217114

Authorized Users:

- Prof. Roberto Valli

Training Required: Yes* (if extensive use is expected).

*Independent use of the instrument is allowed. The practical component consists of individual training (lasting from several days to one week, with the duration determined by the instrument supervisor). For the theoretical component, the supervisor will provide educational material on the operating principles of the instrument.

Internal tickets can be viewed on the intranet page (access with university credentials): <https://intranet.uninsubria.it/areadocumenti/ticket-strumenti-criett-utenti-interni>

The fee schedule for external users can be viewed on the website:
www.uninsubria.it/criett



CRIETT Service Traceability in Scientific Publications (see CRIETT Regulations, Article 11): It is mandatory to acknowledge the CRIETT major equipment used in scientific publications according to the following statement:

“The scientific support from CRIETT centre of University of Insubria (instrument code: EP02) is greatly acknowledged.”

Instrument Code: EP02

Access Modes

Direct Access (Self-Service)

Who:

Research groups or users who use the instrument regularly and have received specific training.

Procedure:

Trained users may independently access and operate the instrument after making an online reservation.

Access with Scientific Technician Support (Full-Service)

Who:

Research groups that use the equipment occasionally, external users, or those without qualified personnel.

Procedure:

Access is provided with the assistance of dedicated technical staff, who manage both the booking and operation of the instrument.

Occasional/Temporary User

May access the instrument through the Instrument Supervisor or an Authorized User.

Description and Functions

The Agilent microarray scanner platform enables one-color or two-color microarray analysis experiments using lasers with wavelengths suitable for Cy3 and Cy5 fluorophores (and compatible dyes).

Agilent offers kits and consumables for Array Comparative Genomic Hybridization (aCGH) experiments in human, mouse, and rat samples, as well as aCGH+SNP (human), available in various resolution formats ranging from 15,000 probes up to 1 million probes.

The platform also supports mRNA and miRNA transcriptomic studies based on microarrays, with probe formats ranging from 15,000 to 60,000 probes.

Using products from manufacturers other than Agilent, it is also possible to perform other types of microarray experiments, including protein- and antibody-based microarrays.

The analysis workstation enables data analysis for:

- aCGH
- aCGH+SNP
- Transcriptomic microarrays

It also supports the analysis of:

- NGS transcriptomics data
- NGS+SNP transcriptomics data

Technical Specifications

- Agilent G2565CA Scanner with maximum resolution of 2 μ m
 - Dual-laser system for Cy3/Cy5 detection
 - Carousel loader with capacity for up to 48 microarrays
 - Rotating hybridization oven with maximum temperature of 68°C
 - PC workstation for image acquisition and aCGH data processing
 - PC workstation for microarray/NGS transcriptomics data analysis
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Safety Warnings

In case of doubts or equipment anomalies, contact the technician or instrument supervisor.

Operating Notes

- Instrument reservation is mandatory through the internal management system.
- Self-service use is permitted only for trained, registered, and authorized users.
- Any malfunction must be promptly reported to CRIETT staff.

Materials and Accessories for Analysis Provided by CRIETT

- Hardware support

Materials and Accessories for Analysis to Be Provided by the User

- Depending on the specific experiment to be performed.