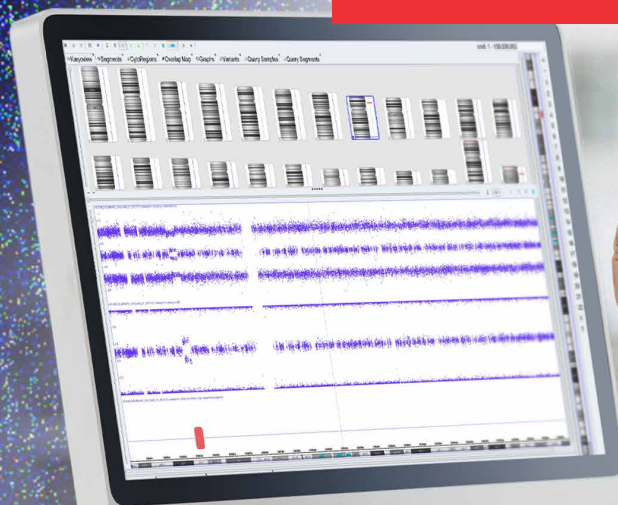


The leading genetic data analysis software that evolves with your lab



Chromosome Analysis Suite (ChAS) software

Applied Biosystems™ Chromosome Analysis Suite (ChAS) software is an intuitive and flexible software for cytogenetic research analysis that enables you to view and summarize chromosomal aberrations across the genome. It is available at no additional cost to all customers who own Applied Biosystems™ CytoScan™ and OncoScan™ products.

Key features:

- Analyze copy number, mosaicism, loss of heterozygosity (LOH), and copy neutral mosaic LOH segment data at different levels of resolution
- Automatically prioritize segment data using scoring inspired by the American College of Medical Genetics and Genomics
- Customize and load your own annotations and regions for focused analysis
- Store, query, and display historic sample data and annotations for streamlined analysis
- Built-in application programming interfaces (APIs) enable easy transfer of data from ChAS software to your LIMS
- Fully automated workflow from scan to interpretation-ready results

ChAS software is a powerful tool that enables customized visualization and analysis of the following data file types:

- Applied Biosystems™ CytoScan™ arrays (CYCHP)
- Applied Biosystems™ OncoScan™ FFPE arrays (OSCHP)
- Applied Biosystems™ CytoScan™ XON arrays (XNCHP)
- Browser extensible data (BED), Applied Biosystems™ Affymetrix™ extensible data (AED), and variant call format (VCF) files

ChAS software offers direct access to multiple annotation databases, including NCBI, UCSC Genome Browser, OMIM®, DECIPHER, ClinVar, ClinGen, Ensembl™, and MANE Plus Clinical.

[Request a demo](#)

CytoScan Automated Interpretation and Reporting (AIR) solution

Streamline genetic data analysis to increase productivity with consistent interpretation and reporting. Franklin by Genoox™ is an end-to-end research solution for genetic data analysis with advanced AI-driven interpretation. With the Applied Biosystems™ CytoScan™ Automated Interpretation and Reporting (AIR) solution, our customers can combine the power of ChAS and Franklin to augment the visualizations of LOH and copy number variation (CNV) gains and losses, with key clinical research interpretation information.

[View flyer for CytoScan AIR](#)

ChAS—over 10 years of continuous innovation

Developed by cytogeneticists, for cytogeneticists

ChAS software was developed with input from leading cytogeneticists to support copy number and cytogenetics research analysis and reporting. Purpose-built for microarray data review, ChAS software combines visualization, analysis, and reporting capabilities in an experience designed around the needs of cytogenetics researchers.

Backed by years of customer-informed innovation, ChAS software continues to advance through regular enhancements that support usability, workflow efficiency, and intuitive data review. As cytogenetics research needs evolve, ChAS software evolves with them, reflecting a continued focus on making microarray software more practical, flexible, and user-centered.

2015

- Addition of ChAS DB
- Trio analysis
- Manual recentering

- B-allele frequency
- hg38 support

- Segment prioritization
- Automated results file creation

- Improved mosaic segmentation algorithm

- VCF support
- APIs for LIMS integration

- CytoScan AIR

- LOH mosaic algorithm
- Trio analysis across arrays
- ISCN 2024

2026



Customer support

With comprehensive onboarding services and support offerings for ChAS software, our team of experienced professionals, including technical sales specialists, field service engineers, field application scientists, and clinical research consultants, helps provide the technical assistance and peace of mind you need to stay focused on what matters—your research.

[Access support brochure](#)

Enhance your genetic data analysis with ChAS software

ChAS software continues to evolve with updates designed to support cytogenetics research analysis, data review, and reporting workflows. Recent enhancements include:

- Copy-neutral mosaic LOH segmentation support for refined review of LOH patterns
- Updated ISCN 2024 nomenclature support for cytogenetics research reporting
- Standardized log2 ratio calculation and display for a more consistent visualization experience
- Cybersecurity updates aligned with current software security standards



ChAS software training videos

We offer on-demand training videos for you to compare your analysis pipeline and see new and enhanced features you may want to incorporate into your training regimen.

[Browse modules](#)

Learn more at thermofisher.com/chas

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