

Create Your Own Custom Microarray Designs and Oligo Libraries Using eArray

December 6, 2011

Mark Hartnett
Application Scientist, eArray

Today's Presentation - Agenda

Introduction to eArray

Supported Agilent Genomics Applications

Getting Started with eArray

eArray Custom Design Concepts

eArray Custom Design Demonstration

Introduction to eArray – What is it?

eArray is free web-based software

- For designing custom Agilent microarrays and oligonucleotide libraries

<https://earray.chem.agilent.com>



Agilent Technologies
eArray

User Login

Login Name:

Remember my login name

Password:

Select Language : English 简体中文

Log In

Introduction to eArray - What does eArray do?

Enables customization of Agilent Genomics applications

- SurePrint Microarrays
- SureSelect Target Enrichment Libraries

Provides a direct portal to Agilent oligonucleotide writers

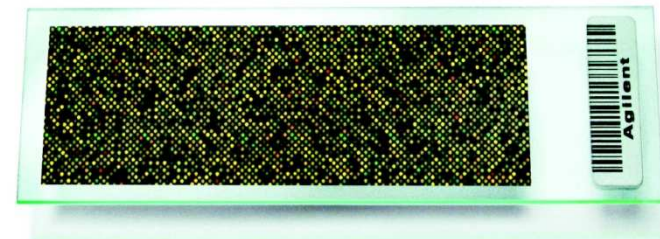
- Design your custom microarray or oligo library
- Submit your custom order directly to Agilent



eArray Supports All Agilent Custom Microarrays

Custom Microarray Formats and Applications

- Custom SurePrint G3 Microarrays
 - 1 x 1M, 2 x 400K, 4 x 180K, 8 x 60K
- Custom SurePrint High-Density Microarrays
 - 1 x 244K, 2 x 105K, 4 x 44K, 8 x 15K
- Custom Microarray Applications
 - Gene expression
 - ChIP
 - CGH+SNP
 - miRNA
 - DNA Capture

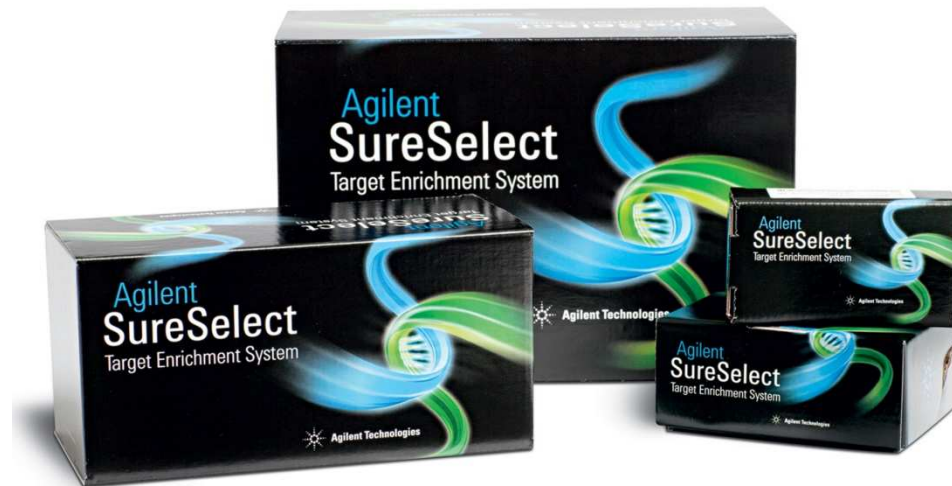


Minimum custom order is only
ONE slide!

eArray Supports Custom Oligonucleotide Libraries

Custom SureSelect Applications

- SureSelect DNA Target Enrichment
 - Custom libraries covering 200 Kb up to 34 Mb
- SureSelect RNA Target Enrichment
 - Custom libraries covering 200 Kb up to 3.4 Mb



Minimum custom order is only
10 reactions!

Getting Started with eArray

eArray Registration and Login

eArray registration and login at <https://earray.chem.agilent.com>

Registration is fast and easy!

- Click the [Request for Registration](#) link
- We will approve and send login information within two working days



Agilent Technologies
eArray

User Login

Login Name:

Remember my login name

Password:

Select Language : English 简体中文

[Log In](#)

[Forgot Password](#)

[Request for Registration](#)

What to Do Once You Log In

eArray Custom Design Concepts

Choose a custom application

Choose a custom microarray or SureSelect format

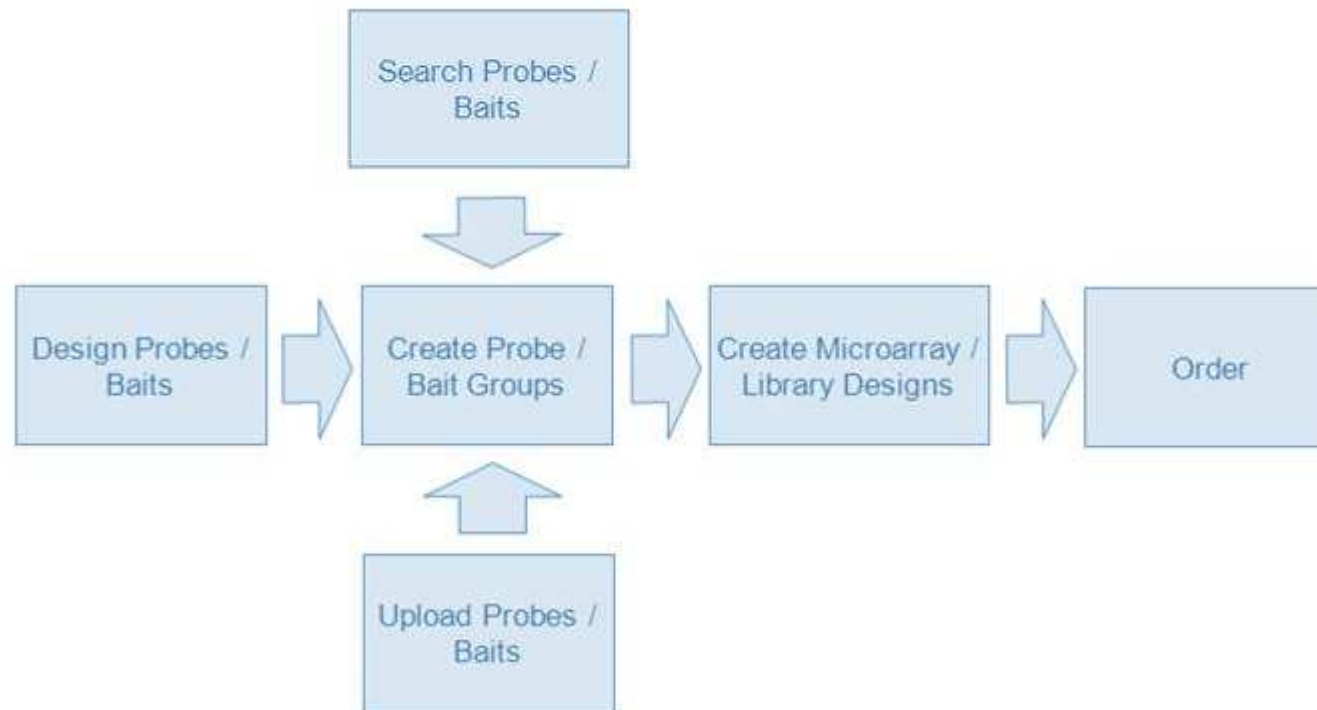
Gather annotation information for design inputs

Create custom design in eArray

eArray Workflow Overview

Common workflow hierarchy for all custom applications

- probes > probe groups > microarrays
- baits > bait groups > SureSelect libraries



Demonstration – Designing a Custom SureSelect Library

Design Baits

- **Upload** your own 120-mer bait sequences
 - designed outside of eArray
- **Search** your baits and Agilent Catalog baits
- **Design** your baits using the eArray bait tiling algorithms
 - Accessions, gene symbols, genomic coordinates

Create Bait Groups

Combine Bait Groups into a SureSelect library

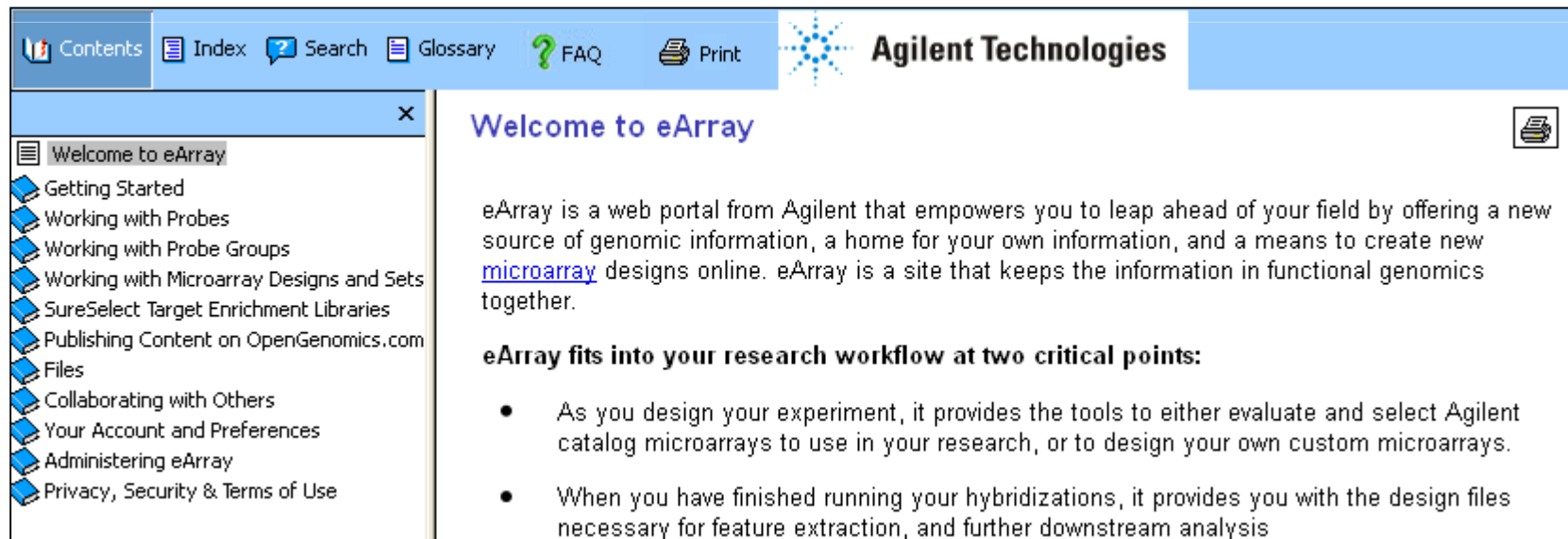
Getting eArray Help and Support

Getting eArray Help and Support

Online Help is available at the top-right

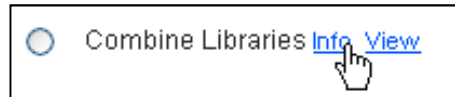


All eArray design workflows are fully documented

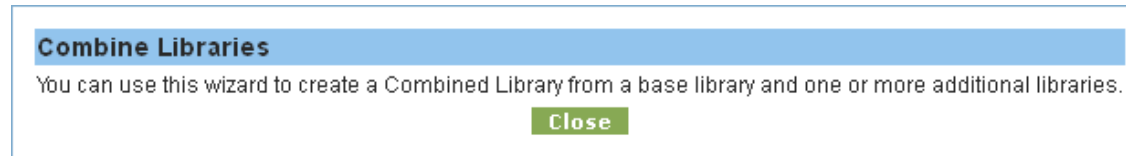


Getting eArray Help and Support

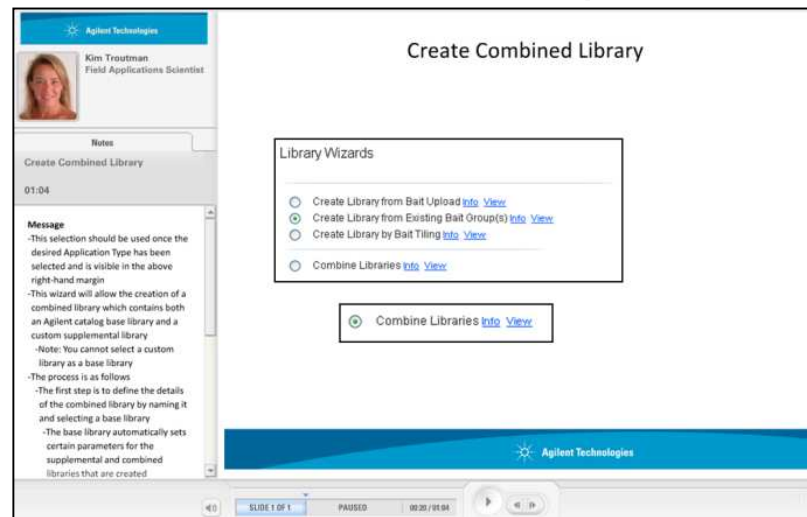
Context-sensitive help is embedded throughout eArray



- Info links – pop-up tips for specific functions



- View links – embedded video tutorials for specific functions



Getting eArray Help and Support

Agilent Informatics Software Support

- Hours of Operation
 - 8:30 PM to 5:30 PM Pacific Time
 - Sunday - Friday

- Email

informatics_support@agilent.com

- Phone (North America)

800-227-9770 x 3 x 5 x 3

Thanks!

Remember...

Register and Login to eArray at:

<https://earray.chem.agilent.com>

Get eArray Support at:

informatics_support@agilent.com

800-227-9770 x 3 x 5 x 3