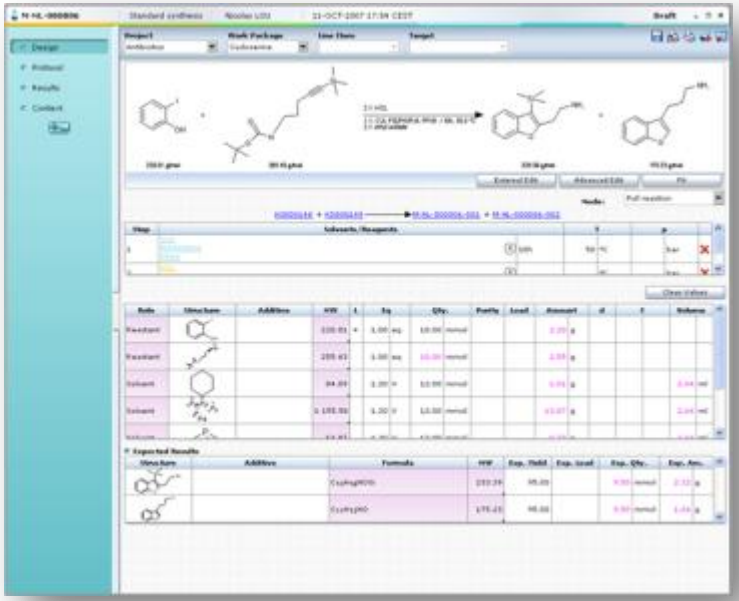
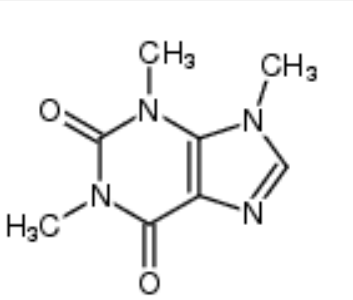
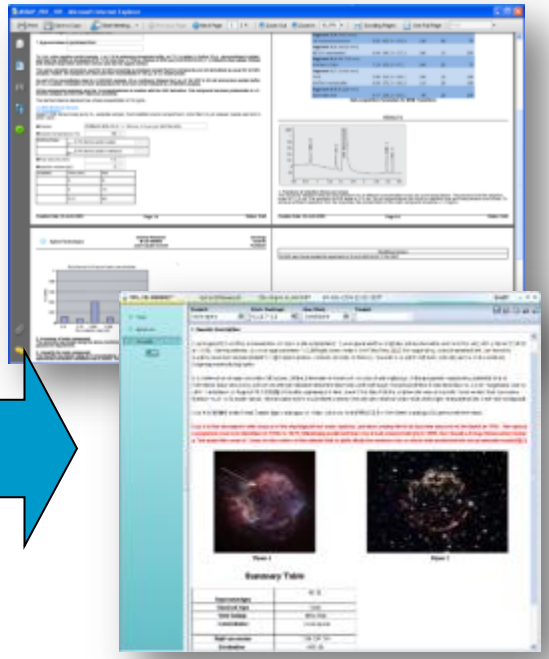


ChemAxon UGM

May 19th, 2010



OpenLAB: Integrated informatics portfolio



Discovery databases

Reporting

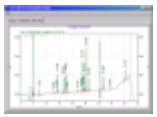
LIMS

OpenLAB Electronic Laboratory Notebook

OpenLAB Enterprise Content Management System

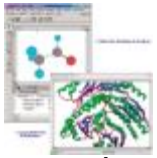
Automatic Data Capture

Instruments

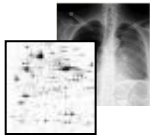


Legacy Data

MS Office



Drawings



Images

Content

Announcing the Agilent OpenLAB Portfolio

Integrating Laboratory Informatics

OpenLAB Electronic Lab Notebook (ELN)

- Helps scientists capture and manage experimental details
- Secures intellectual property and improves collaboration
- Multi-discipline; biology, synthetic/medicinal chemistry, analytical Chemistry

OpenLAB Enterprise Content Manager (ECM)

- The central repository for all laboratory data
- Interfaces to both Agilent and non-Agilent data systems
- Enables searching, management, archiving and reporting

OpenLAB Chromatography Data System (CDS)*

- Highly scalable distributed data system
- Supports both ChemStation & EZChrom Elite CDS workflows
- Provides multi-technique, multi-vendor instrument control

*Coming soon

OpenLAB

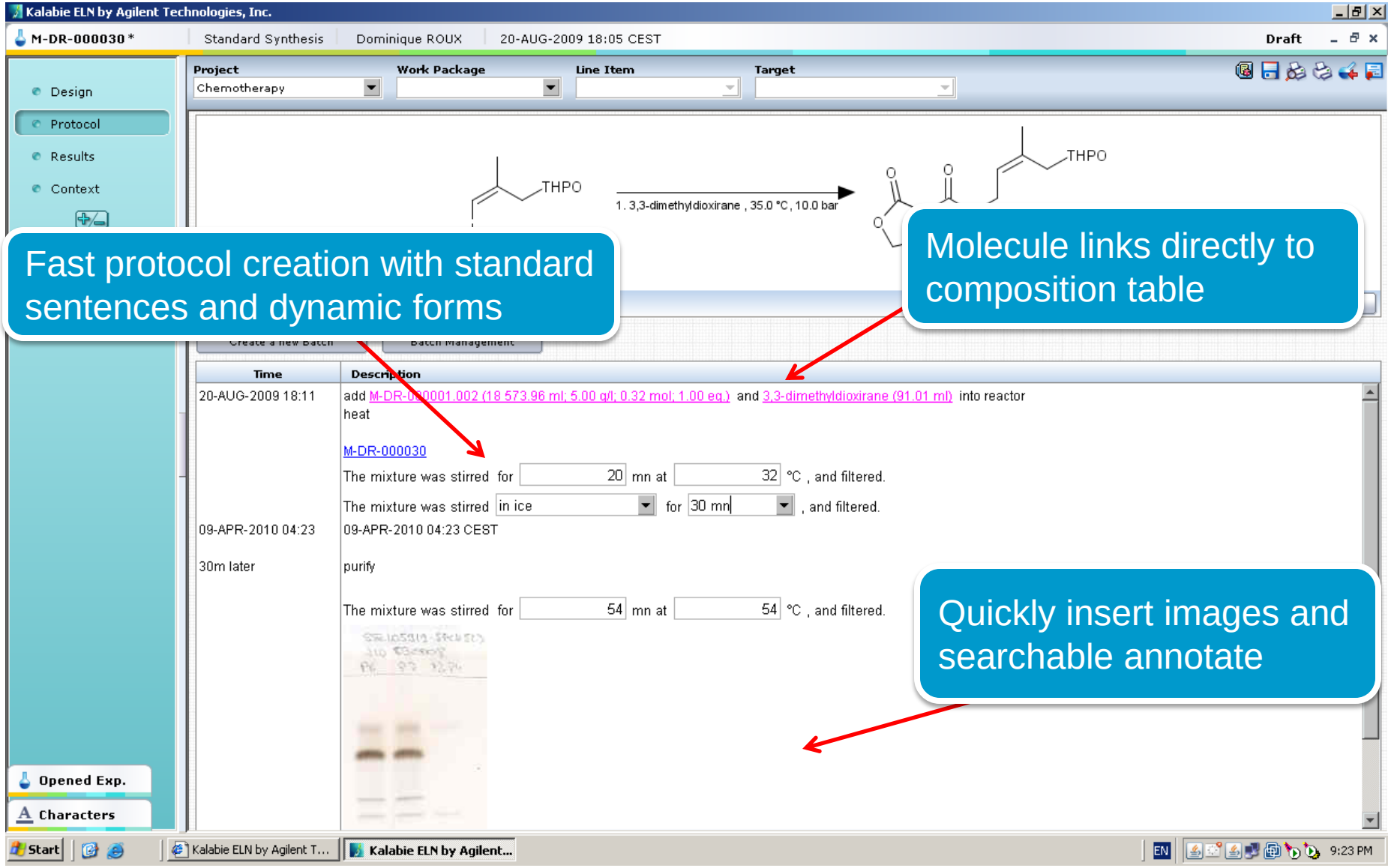
CAPTURE • ANALYZE • SHARE

User workflow and experiment management

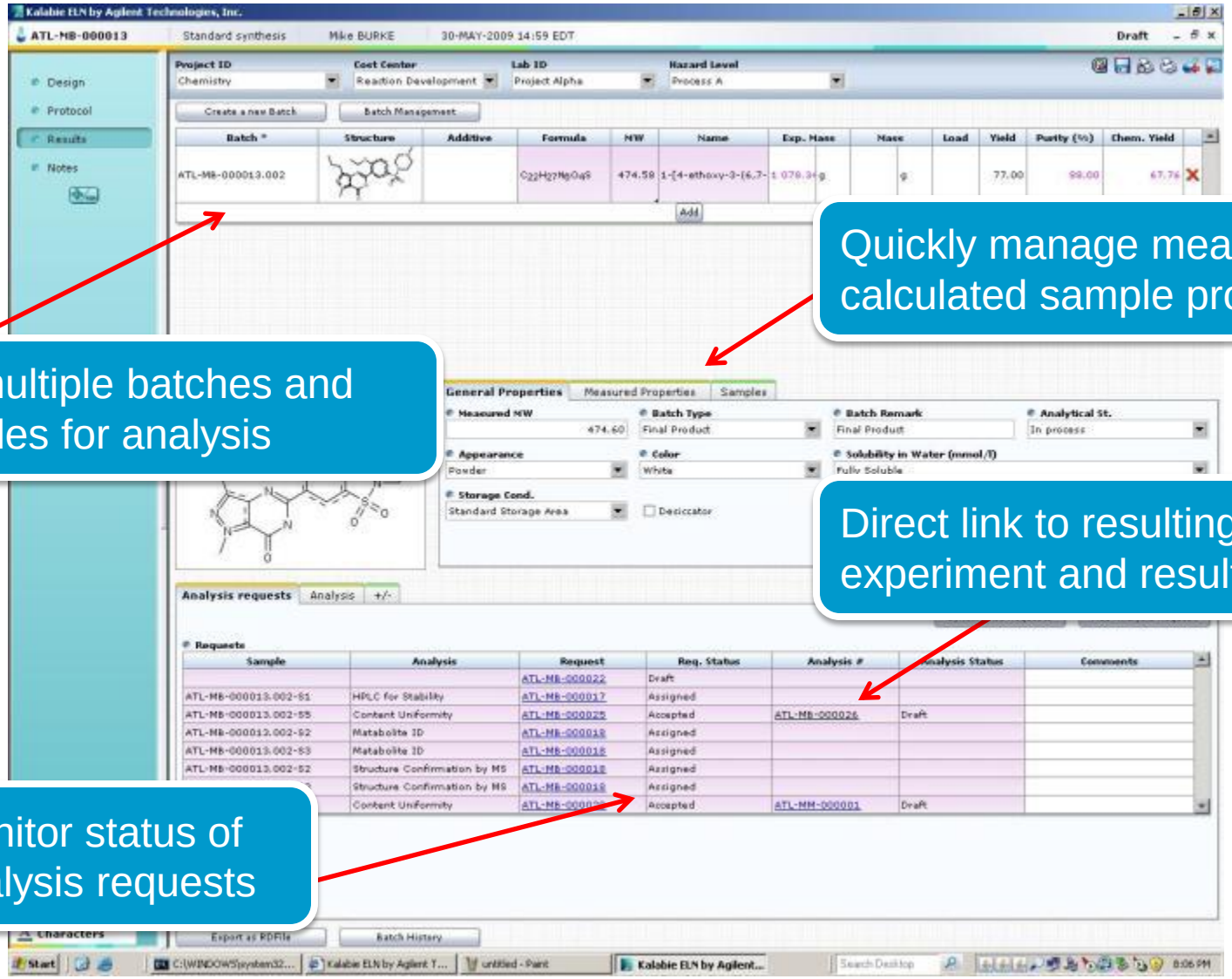
OpenLAB ELN

- Optimize
  - Reduce time between process steps
  - Expedite access to results
- Collaborate
  - Share data across disciplines
  - Re-use experiment procedures
  - Learn from others results
- Secure
  - Safeguard intellectual property
  - Provide data-traceability

OpenLAB ELN: Search and re-use protocols and methods



Experiment results in OpenLAB ELN…



Manage multiple batches and split samples for analysis

Quickly manage measured or calculated sample properties

Direct link to resulting analysis experiment and results

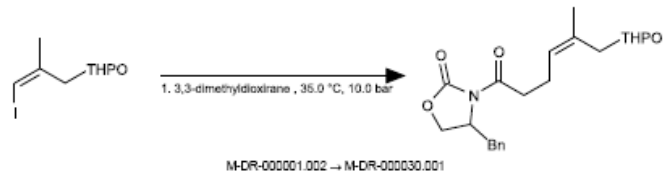
Monitor status of analysis requests

Experiment report contains all data and results

Data traceability and IP protection

REACTION

Type : Bromidation



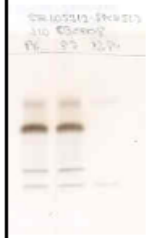
M-DR-000001.002 → M-DR-000030.001

PLANNING

Compound	MW	Eq	Mole	Purity	Mass	C	Volume
M-DR-000001.002	282.12	1.00 eq	0.32 mol	98.00	1.00 µg	5.00 g/l	18573.96 ml
3,3-dimethyldioxirane	74.08	1.00 V	0.20 mol	99.00		2.00 µg/ml	91.01 ml

PROTOCOL

Time	Description
20-AUG-2009 18:11	add M-DR-000001.002 (18 573.96 ml; 5.00 g/l; 0.32 mol; 1.00 eq.) and 3,3-dimethyldioxirane (91.01 ml) into reactor heat M-DR-000030 The mixture was stirred for 20 mn at 32 °C , and filtered. The mixture was stirred in ice for 30 mn , and filtered.
09-APR-2010 04:23	09-APR-2010 04:23 CEST
30m later	purify The mixture was stirred for 54 mn at 54 °C , and filtered.



extract M-DR-000030.001 (299.00 µg; 98.00 %)
M-DR-000030.003 (200.00 µg; 0.00 %)

RESULTS

Agilent Technologies

Standard Synthesis
M-DR-000030
Dominique ROUX

Chemotherapy

Batch	Structure	Formula	MW	Name	Exp. Mass	Mass	Yield	Purity [%]	Chem. Yield
M-DR-000030.001		C22H29NO5	387.48		1250000 00.00 µg	299.00 µg	0.00		98.00
M-DR-000030.003		C22H29NO5	387.48		1250000 00.00 µg	200.00 µg	0.00		0.00

Batch compounds

Batch	Structure	Formula	MW	Ratio
M-DR-000030.001		C22H29NO5	387.48	100
M-DR-000030.003		C9H15IO2	282.12	10
M-DR-000030.003		C22H29NO5	387.48	90

ANALYTICAL FORMS

General properties

Batch	Desiccator	Deliv. mass
M-DR-000030.001	No	
M-DR-000030.003	No	200.0000 µg
M-DR-000030.004	No	

Samples

Batch	Sample	Container Type	Mass	Destination
M-DR-000030.001	M-DR-000030.001-S1			
M-DR-000030.003	M-DR-000030.003-S1	Vial 100mL	100.00 µg	Deep Freeze (-50°C)
	M-DR-000030.003-S2	Vial 10ml	100.00 µg	Fridge 5°C

ANALYSIS

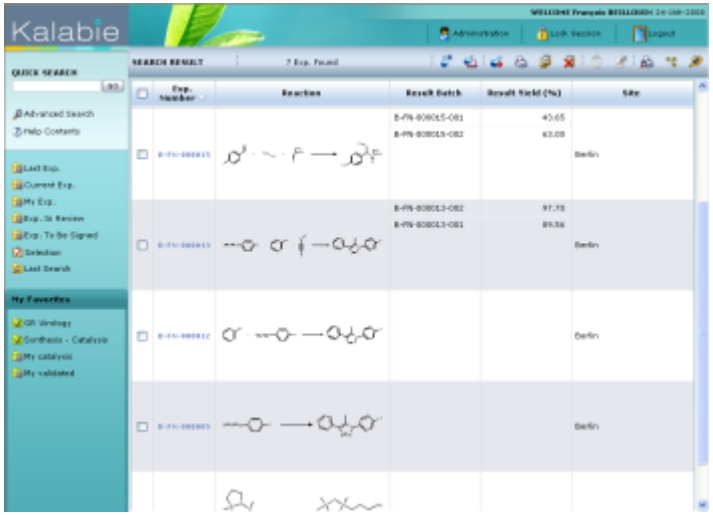
Batch	Sample	Analysis	Request	Req. Status	Analysis #	Analysis Status
M-DR-000030.001	M-DR-000030.001-S1	HPLC	M-DR-000032	Accepted	M-JD-000004	Draft
	M-DR-000030.001-S1	HPLC	M-DR-000032	Accepted	M-JD-000004	Draft
	M-DR-000030.001-S1	HPLC	M-DR-000032	Accepted	M-JD-000004	Draft

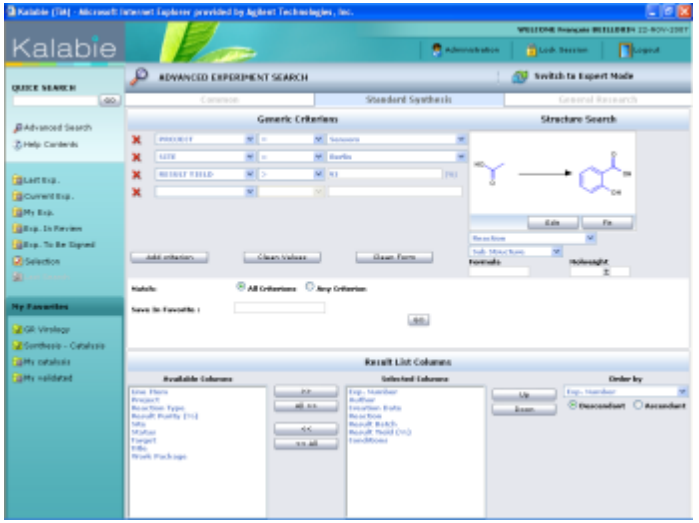
Batch	Solvent

Improved research efficiency for three sites, in three countries…

- *"Compound registrations increased 15 % versus the year before."*
  - *Hans Troost, Business Analyst, Solvay Pharmaceuticals*

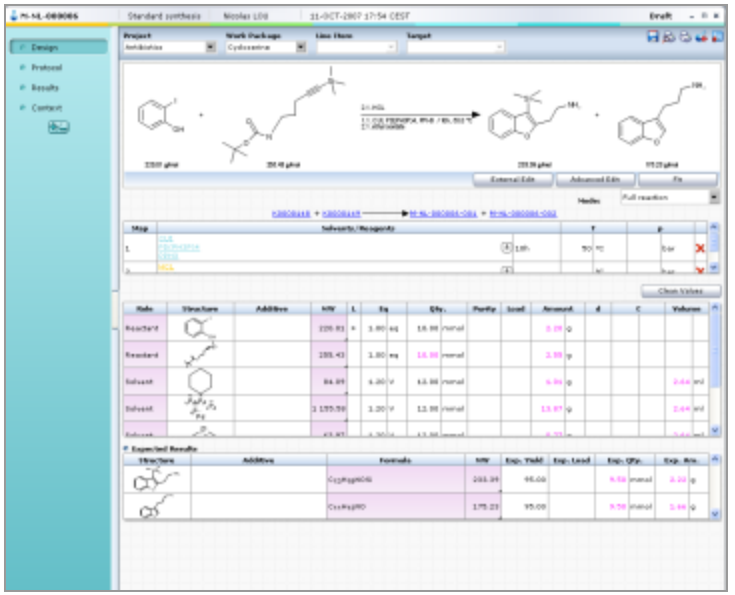
- Increase personal productivity
  - Easily check pending experiments, experiments to sign or pending requests
  - Browse ‘my experiments’, create favorites based on search criteria
  - QuickSearch across experiments and documents
  - Register and search molecule and reactions

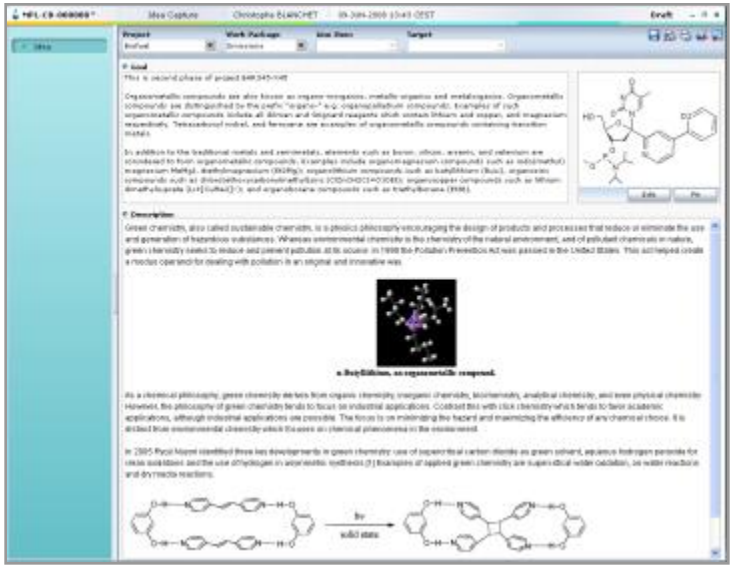




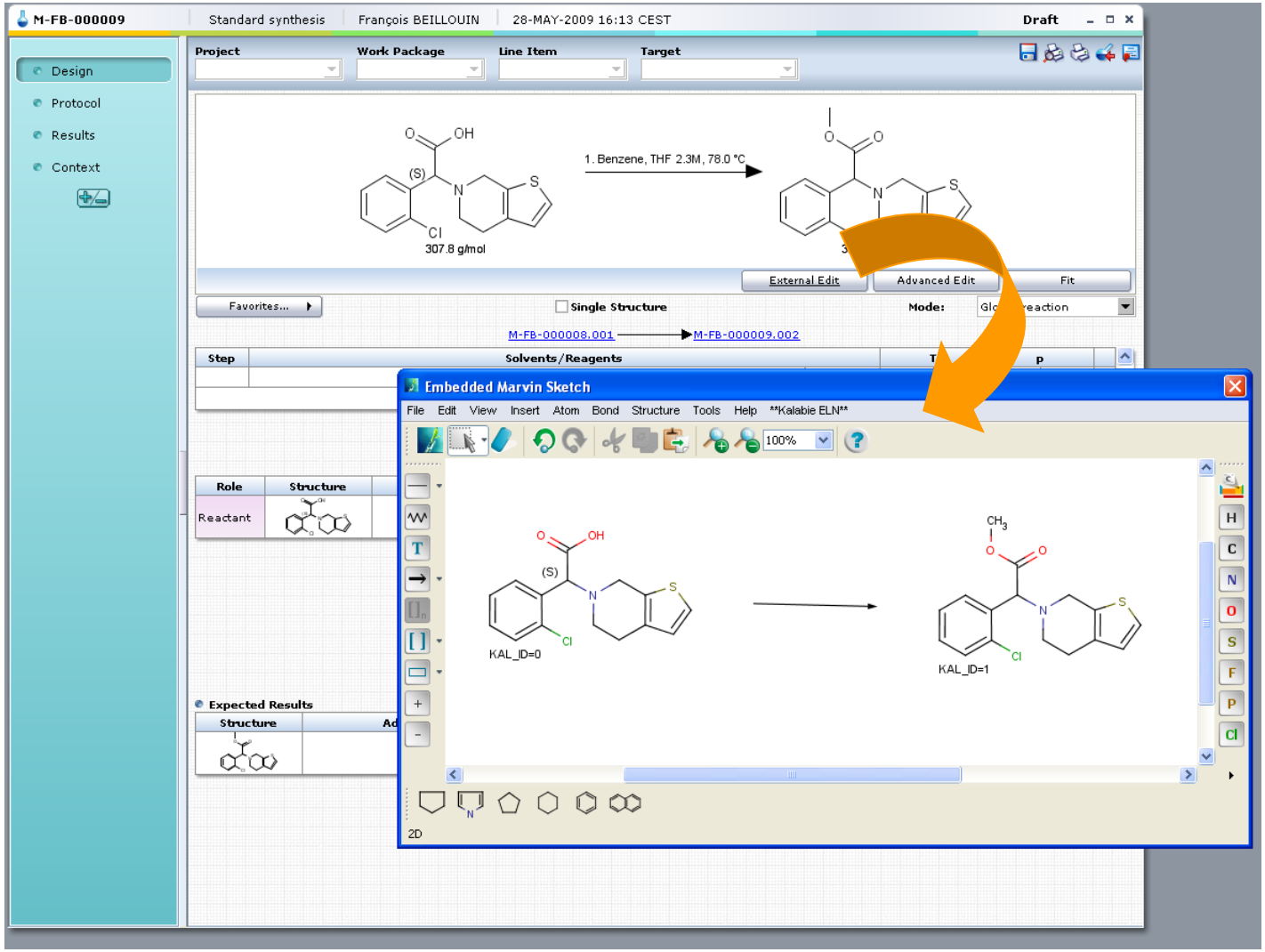
For the synthetic chemists…

- Plan and design reactions using standard chemistry tools
  - ChemAxon bundled
  - Integrate with Symyx, Accelrys and ChemDraw
- Seamless integration with existing registration systems and sourcing databases
- Create favorites for commonly used reagents and solvents
- Quick experiment setup with standard sentences and templates
- Create batches, split samples and submit for analysis directly from the experiment
- Reduce redundant experiments; search across reactions and molecules

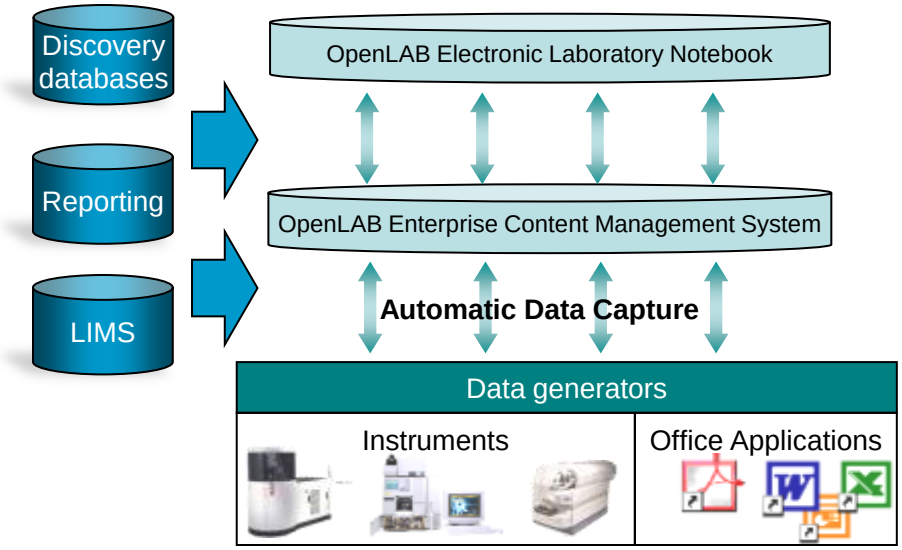


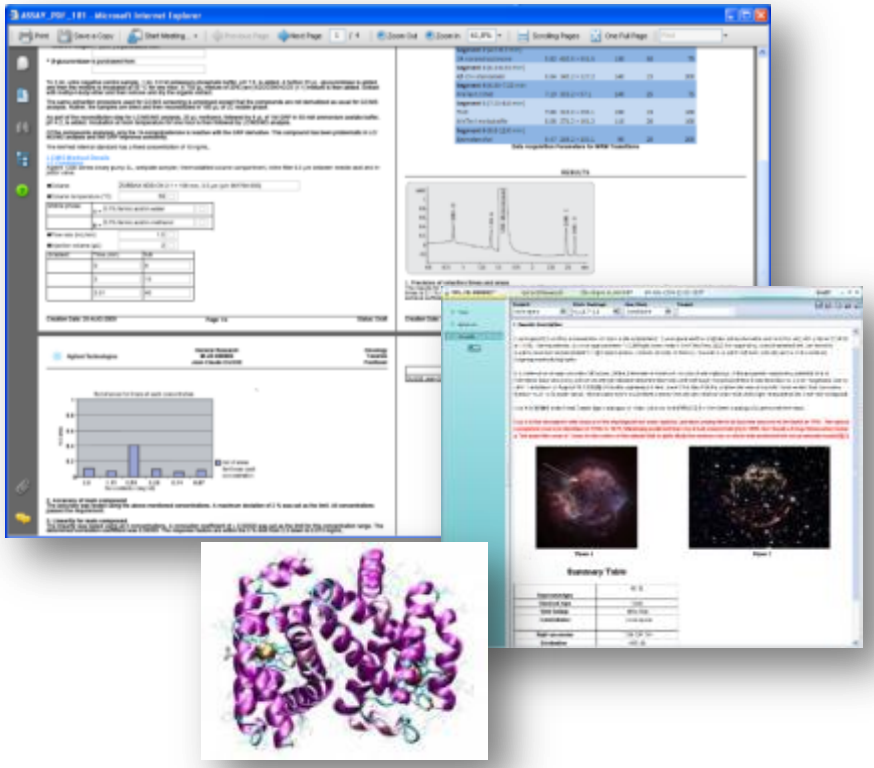


Chemaxon Inside….

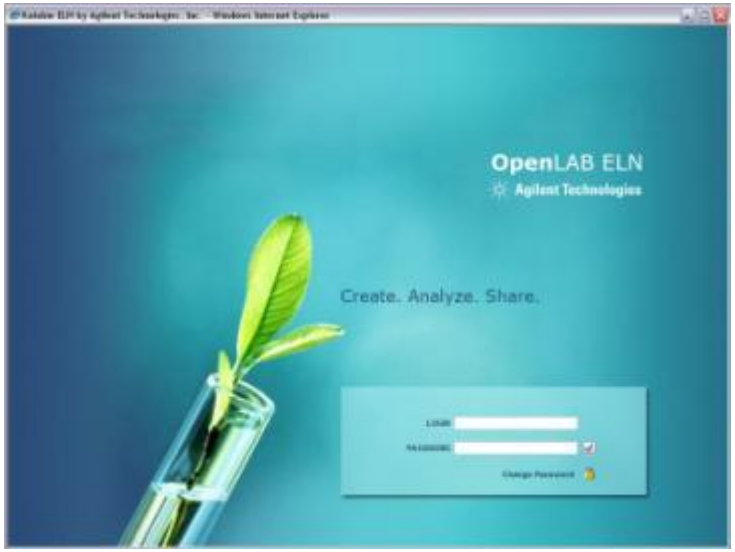


Providing a Collaboration Platform





- Enable knowledge management
- Improve IP protection
- Improve regulatory compliance
- Increase productivity



Questions?