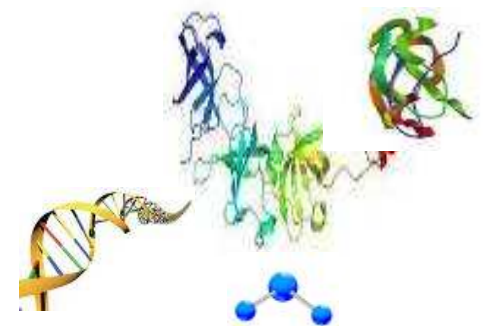


A Peek Into the PCT Product Pipeline

Dr. Edmund Ting
Sr. VP Engineering
Pressure BioSciences, Inc.

Presentation at MSACL 2011



HP Science

- Ultrahigh hydrostatic pressure is a recently

Unique & Enabling

still to come

- Characteristics:

- **Reproducible** (y removed)
- Easily measureable

Ultrahigh Science

• EPR/NMR spectroscopy	• Deep sea biology
• HPLC testing	• Cell stress response
• Phase shift experiments	• Material Science
• High pressure freezing	• Solvent extraction
• Chemical reaction kinetics	• Pathogen inactivation
• Control of enzymatic activity	• Chromatography
• Amyloidogenic protein studies	• Protein aggregation
• Vaccine development	• Protein conformation studies
• Compressibility measurements	• High pressure food science
• Spore germination studies	• Cell lysis

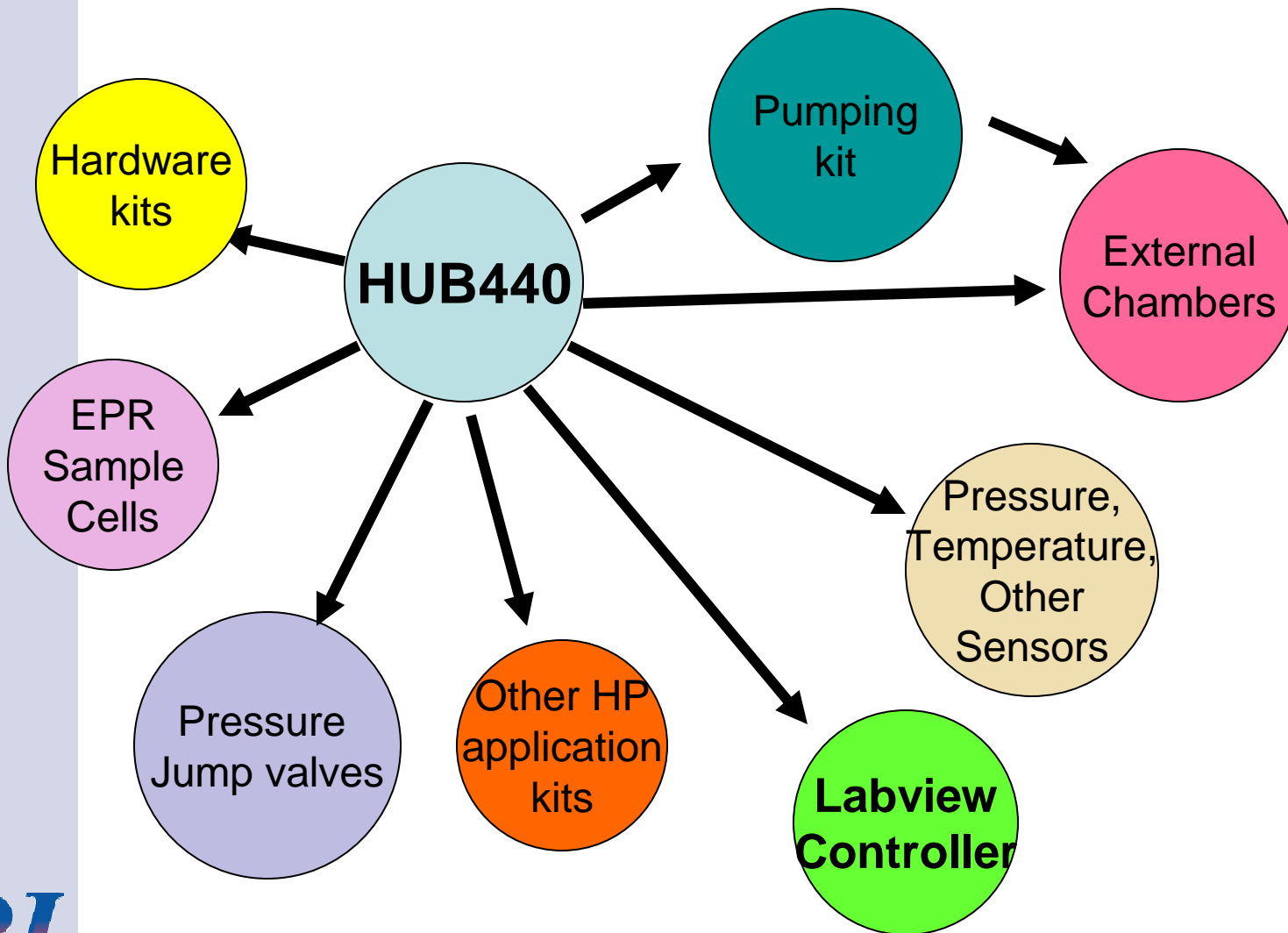
Laboratory Needs

- Compact, portable, ready to use high pressure generator
 - Fast pressurization rate
 - Easy manual or computer control
 - Family of accessories to enable high pressure science



HUB440

A Family of HUB Products

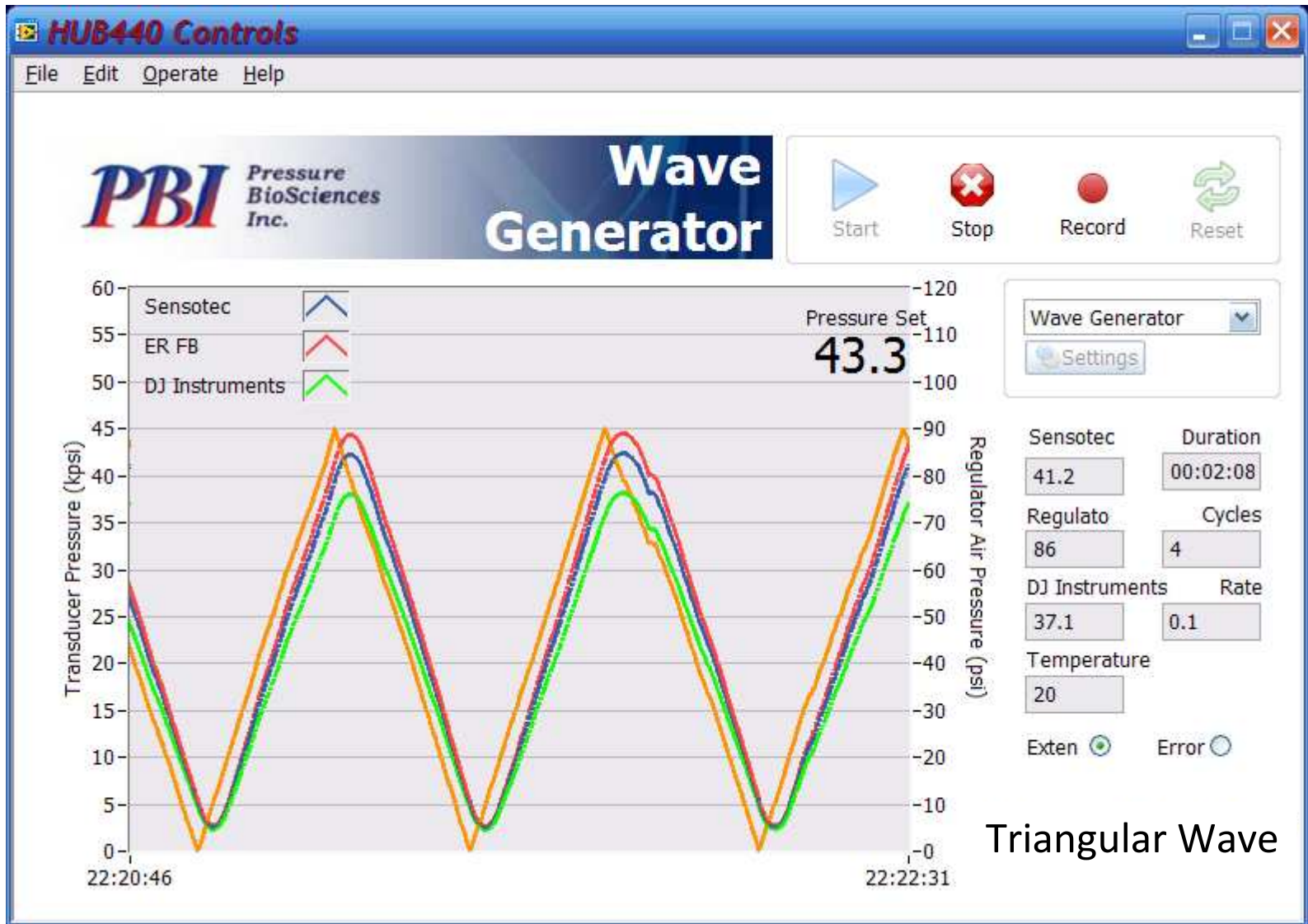


HUB440 Pressure Generator



HUB440 with EPR system

HUBControls v.1.01 User Interface:



Protein Extraction from FFPE

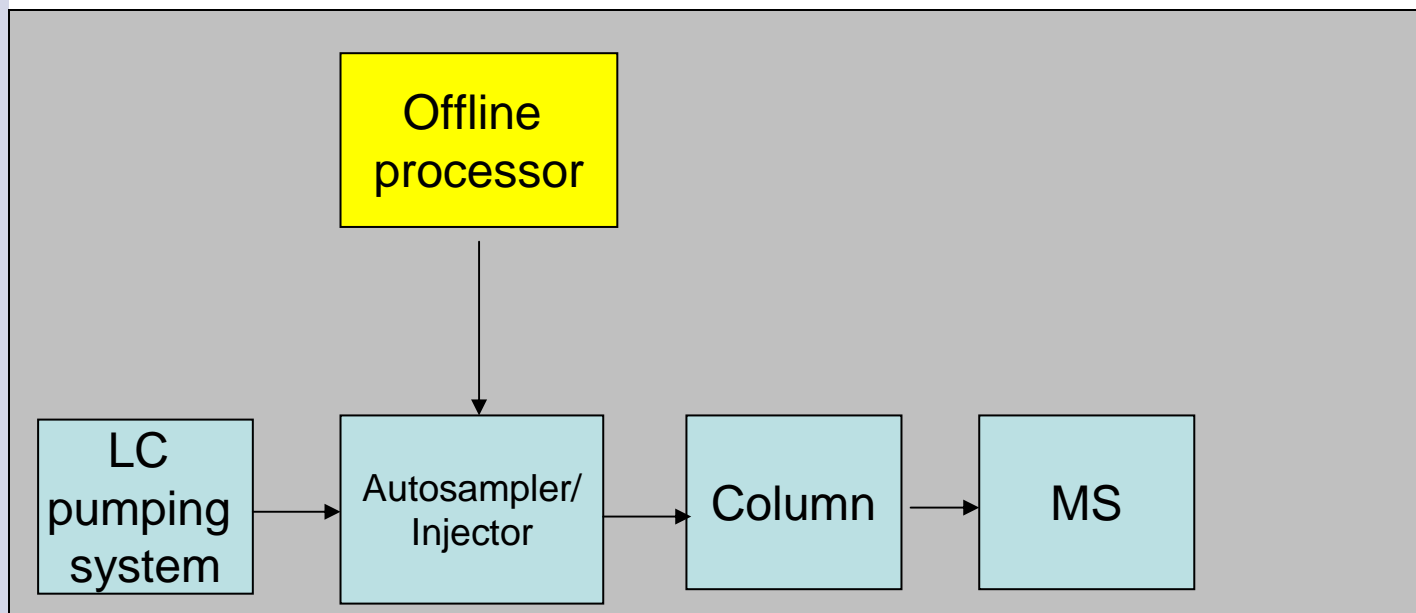
- Up to 57,000 psi
- High temperature (90C)
- High sample capacity

6X more non-redundant protein
from FFPE Aorta- Dr. J. Van Eyk,
J. Hopkins

2X more unique proteins from
FFPE mouse liver- Dr. C. Fowler,
AFIP



XstreamPCT™ Digester



In-line, On-Demand HPLC PCT processing

- Full separation of pressure media from sample
- Digestion pressure independent of LC pump pressure
- Full control of pressure cycling parameters

PBI



Barocycler-HT Multiwell

- Standard 48/96/384 format consumable
- All the advantages of PCT



Timeline

<i>Product</i>	<i>Time</i>
HUB440	Q3 2011
FFPE Extractor	Q1 2012
XstreamPCT™ Digestion Module	2013
Barocycler HT Multiwell	2013