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J. George, C. G. Norey, P. M. Baxendale and D. D. Burns
Nycomed Amersham plc.

Assay of MMP Activity Using Fluorogenic Substrates and a Fluorescent Imaging System

J. George, R. J. Ward, M. L. Teear, C. G. Norey, P. M. Baxendale and D. D. Burns
Nycomed Amersham plc.

Disposable 96 Well Plastic Microfluidic Devices for HTS- and DNA Applications

A. Gerlach¹, G. Knebel¹, A. Guber², M. Hecke², D. Herrmann², A. Muslija², T. Schaller³

¹Greiner Labortechnik GmbH, ²Forschungszentrum Karlsruhe, Institut für Mikrostrukturtechnik

³Forschungszentrum Karlsruhe, Hauptabteilung Versuchstechnik

Glass bottom Microplates (96, 384, 1536 Well) for High-Resolution Imaging and Single Molecule Detection

Andreas Gerlach¹, Claudia Kaiser¹, Henning Vollert², Angelika Bastl², Günther Knebel¹
Greiner Labortechnik and Aventis Pharma (formerly Hoechst Marion Roussel)

Quantitative High-Content Screening Assay for the Activation of Multiple G-Protein Coupled Receptors

Richik N. Ghosh, Yih-Tai Chen, Seia Comsa, and Oleg Lapets
Cellomics® Inc

An Automated Quantitative High-Content Screening Assay for Neurite Outgrowth

Richik N. Ghosh, Stuart R. Arden, Prem Janardhan, Richard DeBiasio, and Beth Arnold
Cellomics® Inc.

Panel of Multi-Parameter Cell-Based Cytotoxicity Assays

Richik N. Ghosh, Chandrasekaran Vasudevan, and Kenneth A. Giuliano
Cellomics® Inc.

Using Imaging Technology to Measure Scintillation Proximity Assays.

Konstantina Gialelis, Meghan Hopkins, Francesca Civoli, Jonathan O'Connell
Bristol-Myers Squibb Pharmaceutical Research Institute

Multiplexed Microfluidic Capillary-Electrophoresis-Based Assays on Single-use Plastic Microarrays for UHTS Applications.

Ian Gibbons, Qifeng Xue, Jing Wei
ACLARA BioSciences

High-Throughput Screening Using Laser-Scanning Imaging

J. Fraser Glickman, P. McCoy, B. Upadrashta and D. Dunn

Pharmacopeia Inc.

Comparison of Fluorescence Plate Readers for Quantitation of Cell Migration Assays in Falcon™ HTS FluoroBlok™ Multiwell™ Insert Systems

Amy Goldberger and Mike Septak
BD Biosciences, Bedford

The Insulin Receptor Tyrosine Kinase Family: New Opportunities for HTS Discovery

Ira D. Goldfine, J. Richard Sportsman
UCSF Mt. Zion, LJI Biosystems

Use of Housekeeping Genes as Internal Controls for Quantitation in High Performance Signal Amplification (HPSA™)

F. Gonzales, T. Sewell, D. Trainor, E. Garcia, S. Elgort, and S. Shaw
Chromagen, Incorporated

Continuous Format High Throughput Screening For Identification Of Inhibitors Of Caspase -3

Sujatha.M. Gopalakrishnan, Jarkko T. Karvinen*, Dave Burns and Usha Warrior
Abbott Laboratories, *PerkinElmer

Superoxide Dismutase: In Vitro Screening Model for Antileishmanials

Neena Goyal and Anil K. Rastogi
Division of Biochemistry, Central Drug Research, India

A Novel Assay for Measuring Cell Invasion using Cytostar-T™ Scintillating Microplates

Robert Graves¹, Mary P. Rosser², Monica Adams¹, R. Michael Snider² and Leighton Howells¹
¹ Amersham Pharmacia Biotech, ² Berlex Biosciences

Development and Validation of a Whole-Cell FLIPR Screen Using a Fast Membrane Potential Dye

¹Duncan R. Groebe, ¹Sujatha M. Gopalakrishnan, ²Kristi Whiteaker, ¹Usha Warrior, ¹David J. Burns, ²Michael Coghlan, ³Martin Kirk, ³Dieter Klaubert, and ²Murali Gopalakrishnan
¹Biological Screening, Abbott, ²Abbott Laboratories, ³Molecular Devices Corp

Cellular Informatics – Enabling HTS for Cell-Based Assays

Perry D. Haaland
BD ViaSante

What Do You Do When You Can't Get a Pure Target and Substrate? Ergosterol Biosynthesis in Yeast as a Model for a Differential Sensitivity Screen Using Cloned, Over-expressed Target Genes.

Christopher L. Haber¹, James C. McGuire¹, Monika K. Homa², Cheryl L. Quinn², Howard R. Miller¹, and Joseph V. Haas³.
Discovery Technologies¹, Biology I², and Research Biostatistics³, Pharmacia Corporation

Screening of a Protease Inhibitor Library With an SPR-Biosensor Using Four Proteins Simultaneously - Identification of Potent and Selective Binders

Markku D. Härmäläinen^a, Per-Olof Markgren^b, Wesley Schaal^c, Anders Karlén^c, Björn Classon^d, Lotta Vrang^d, Bertil Samuelsson^e, Anders Hallberg^e, U. Helena Danielson^b

^aBiacore AB, ^bDepartment of Biochemistry, ^cDepartment of Organic Pharmaceutical Chemistry, Uppsala University, ^dMedivir AB, ^eIFM kemi, Linköping University,

Measurement Of Fixed And Real Time Cellular Assays Using The Leadseeker™ Cell Analysis System.

Richard Hansen¹, Rahman Ismail², Jennifer Collonel¹, Liming Yu³, Elaine Adie².
¹Praelux Incorporated, ²Amersham Pharmacia Biotech UK, ³ Amersham Pharmacia Biotech, USA.

Design, Synthesis and Screening of the SoftFocus™ Library

C J Harris, K Carter, M Kling, H Stokes[†], S Yau
BioFocus plc, UK

Optimizing Production Of Serially Diluted Compounds And Distribution To Multiple Targets.

Cole O. Harris and Stephanie L. Schweiker
GlaxoWellcome, Inc.

The Determination of Membrane Affinity Using Solid Supported Lipid Bilayers (Transil®) – Lipophilicity in High-Throughput-Processes

T. Hartmann, M. Schöttner and A. Loidl-Stahlhofen
NIMBUS Biotechnology GmbH

Cell Based Luciferase Reporter Assays For The Leadseeker™ Homogeneous Imaging System.

C. S. Hather, A. C. Cushing, J. M. Kendall and S. Game.
Amersham Pharmacia Biotech UK Limited

Single Molecule Detection for Ultra High-Throughput Screening: Towards Routine Implementation

Ulrich Haupts, Martin Rüdiger, Stephen Ashman, Sandra Turconi & Andrew J Pope
SmithKline Beecham

Application Development using IGEN ECL @ GW

Yiwu He
Glaxo wellcome, Inc.

A High Efficiency Fluorescence Polarization (HEFP) Assay to Monitor Serine/Threonine Kinase Activity

J. Hesley*, P. Panfili, R. Sportsman
LJL BioSystems, Inc.

Hyper Spectral Imager for Low Light HTS Applications

Petr Herman¹, Henryk Malak², Wayne Moore²
¹Center for Fluorescence Spectroscopy, University of Maryland at Baltimore, ²Microcosm Inc.

Serine-Threonine Kinase Assays: An Evaluation Of Currently Available Technologies

Simon Hill, Katrina Drayton, Ann Fowler, Philip Rawlins, Denise Swift, Paul Harper, Ian Dale, Charlotte Carey, Paul Hemsley, John Unitt, Elaine Sullivan and Martin Coldwell
AstraZeneca R&D

A Novel Particle Based Platform For Diagnostic And Screening Assays.

R.N.Hobbs, G.Margetts, M. Degli Esposti
Polymer Laboratories Ltd.

A Novel Homogeneous Fluorescent Method to Monitor Histone Deacetylase Activity

Glenn A. Hofmann, Erding Hu, James D. Winkler, Xiaolong Zhang, John D. Martin, Wu-Schyong Liu, Steven A. Carr, Thomas Meek and Ricardo Macarron
SmithKline Beecham Pharmaceuticals

Automated CACO-2 Screening on the Tecan Genesis Workstation

Martha Hogan and Darwin Asa
Tecan U.S., Inc.

The Design and Development of an Integrated Natural Products Screening Database

T. Holt, C. Dufresne, J. Liesch, G. Mallow
Merck & Company

A Leadseeker™ Imaging Assay For Measuring Cytochrome P450 Drug Interactions

A. Hopkins¹, M.J. Price-Jones¹, K.T. Hughes¹, P.J. Eddershaw², S.R. Hood², A.J. Woodrooffe², M.H. Tarbit².
¹ Amersham Pharmacia Biotech UK Limited, ² Glaxo Wellcome Research & Development

A New High-Sensitivity, High-Throughput Fluorescence Polarization Reader

Clifford C. Hoyt¹ and Peter R. Banks²
¹ CRI, Inc., ² Advanced Bioconcept Co. – A subsidiary of NEN Life Science Products, Inc.

The ORIGEN Infectious Disease Drug Discovery Panel: Electrochemiluminescent Assays for the Measurement of Polymerase and RNase H activities of HIV Reverse Transcriptase

Ed Hudson and Jeffrey A. Heroux
IGEN International, Inc

Automated High-Throughput Capillary Electrophoresis (HT-CE) Screening

Dallas E. Hughes and James N. Little

Cetek Corporation

A New Biological Tool for Adapting Cellular Assays to Target Validation and Screening Applications

Nicolas Hunt, Johannes Pschorr, Monika Heibey, Marion Biniskiewicz, Ellen Gumz, Michael Gebinoga, and Timm Jessen*

EVOTEC BioSystems AG

An SPA-Based Assay For Screening Of COX-2 Inhibitors

U. Huss¹, P. Perera¹, L. Bohlin¹, M. Vasänge²

¹Uppsala University, ²Pharmacia Corporation, Sweden

Comparison of Fluorescence Polarization and Filter Plate Assay Methodologies for PKCβII

Karen Huss, Xin-Yi Cynthia Chen, Karen L. Cox, Harold B. Brooks, Sitta Sittampalam and Robert M. Campbell

Eli Lilly & Company

Rapid and Sensitive Detection of HAT(histone acetyl-transferase) Activity

Ray Ignacio, Travis LaFavor, Rick Chu, and Walid Qoronfleh

Pierce Milwaukee Inc

Homogenous Detection and Measurement of Micromolar Affinity Interactions Using AlphaScreen

Chantal Illy¹, Roger Bossé¹, Philippe Roby¹, Liliana Pedro¹, Richard Cummings², Barry Cunningham², Stefanie Kane², Changjin Wang³ and Daniel Chelsky¹

¹BioSignal Packard, ²Merck & Co., ³Packard Instrument Company

A Fluorescence Based HTS Invasion Assay: Dose Dependent Inhibition of Tumor Cell Invasion by Doxycycline

Stephen Ilsley, Paula Flaherty, Frank Mannuzza, James Maliakal, and Min Wu

BD Biosciences

Evaluation of “Triage” Mixing for High Throughput Screening

William P. Janzen^{2*}, Kiyomi Carter², Julia M. Heerding¹ and Amy D. Hilton²

Departments of Lead Generation Chemistry¹ and Lead Generation Technology², Sphinx Pharmaceuticals, A Division of Eli Lilly and Company

Evaluation of Compound Interference on Luminex LabMap Signal

Haiyong Jin, Kerry G. Oliver*, Shaoming Huang, and Mary Jo Wildey.

The R W Johnson Pharmaceutical Institute, *Luminex Corporation

Development and Validation of a High Throughput Turbidimetric Solubility Assay

Paul A Johnston, Kimberly Pratt-Basden and Tami Prager

Sphinx Pharmaceuticals, A Division of Eli Lilly and Company.

Evaluation of High Throughput Assays to Identify CYP450 Inhibitors Utilizing Fluorogenic CYP450 Substrates and Recombinantly Expressed CYP450 Enzymes.

¹Paul A Johnston, ²Carmen Laethem, ²Gregor Zlokarnik

¹Sphinx Pharmaceuticals, A Division of Eli Lilly & Co., ²AuroraBiosciences Corporation

Characterization of the 3-Day Caco-2 *in vitro* Absorption Model.

Paul A Johnston, Todd Levins, and Kimberly Pratt-Basden.

Sphinx Pharmaceuticals, A Division of Eli Lilly and Company.

Bioluminescence Resonance Energy Transfer (BRET): A Novel Technology For The Measurement of Signal Transduction Pathways in Intact Cells.

Erik Joly, Claire Normand, Anne Labonte, Mireille Caron, Stephane Angers*, Suparna Bhalla, Michel Bouvier* and Daniel Chelsky.

BioSignal, Inc., *University of Montreal,

Measuring Protein-Protein Interactions: Development of Electrochemiluminescence-Based Assay for Identifying Inhibitors of Integrin – Extracellular Matrix Adhesion Interactions

Serene Josiah

Biogen, Inc.

An Evaluation of Performance of Various Imagers for uHTS

Anthony J. Jurewicz, Glenn A. Hofmann, Lorena A. Kallal, Robert H. Smith, Sandra Turconi, Brian C. Bond, Martin P. Ruediger, Maite De Los Frailes, Robert P. Hertzberg, Andrew J. Pope and Ricardo Macarron
SmithKline Beecham Pharmaceuticals.

Development and Validation of a Flashplate Assay and High-Volume Screening for GABA_A Receptor Ligands

Michelle L. Kagey, Dac M. Dinh, and Christopher L. Haber.
Discovery Technologies, Pharmacia

Chips-to-Leads: The CellChip™ System for High Throughput Lead Optimization

Steven R. Kain, Ravi Kapur, and D. Lansing Taylor¹ Antonio J. Ricco, Hilary S. Lackritz, and Travis D. Boone²
¹Cellomics, Inc., ²ACLARA BioSciences, Inc.

Miniaturization Of Homogeneous Reporter Gene Assays For The Functional Analysis Of G Protein-Coupled Receptors

Lorena Kallal, Dwight Morrow, William Prichett, Monica Baptist, Martin Ruediger, and Andrew Pope
SmithKline Beecham Pharmaceuticals USA and UK

LANCE™ Technology for Ultra-High Throughput Tyrosine Kinase Screens

Mohammed A. Kashem, Paul V. Kaplita, Richard M. Nelson, and Carol Ann Homon
Boehringer Ingelheim Pharmaceuticals, Inc.

From Sample Distribution to Detection: Homogeneous, High Throughput Screening in 384 Well Compound Plates against an ATPase Target

Susan Kaufman, Tim Dawes, Julia Bach, Mike Doyle, Alex Harris
Chiron Corporation

Metabolic Footprinting – A Novel High Throughput, High Content Screening Method for Functional Genomics

Douglas Kell, University of Wales

Multi-Domain Clustering for Lead Discovery With a MCS and Recursive MCS Based Similarity Measure

Brian Kelley*, John MacCuish*, and Susan Y. Tamura*
Bioreason Inc

Homogeneous LANCE and Fluorescence Polarization Assay Technologies: Performance with VICTOR²V Multilabel Counter

Petri Kivelä, Petri Aronkylä, Kristian Enkvist, Jaana Hyvärinen and Auli Raita
PerkinElmer Life Sciences,

Optimization of Measurement Parameters for The Wallac ViewLux™ ultraHTS Microplate Reader

Petri Kivelä, Jaana Hyvärinen and Ville Laitala
PerkinElmer Life Sciences

A New HTS-Platform to Approach the 2 to 10 µL range: 384 Well Small Volume Plates

Günther Knebel
Greiner Labortechnik GmbH

Sample Banks - The Evolution of Compound Library Management

David Kniaz
Emax Solutions, A SciQuest.com Company

Evaluation of a Cell-Based Screen in 1536-well Format

Janet M. Kolb Laura Robinson, John Herbst, Tanya Zvyaga, Kenneth Dickinson
Bristol-Myers Squibb

Comparative Studies on Imaging and Scintillation Proximity Technologies for Implementing High Throughput Galanin Receptor-1 Binding Assay

Yan Kong, Daniel H.S. Lee*, Lisa Minor, Zina Itkin, Mojgan Abousleiman, Dean Colone, Alex Potocki, Samantha Chapman, Jennifer Piesvaux, Coralie Davis, Carlos Plata-Salaman and Mary-jo Wildey

The R.W. Johnson Pharmaceutical Research Institute

Miniaturization of SPA Assay Using Zymark's Allegro and Amersham's LEADseeker

Yan Kong, Peter Cheung, Mike Moore, Zina Itkn, Dean Clone, Kay Granger, Mary Jo Wildey
RW Johnson PRI

Enamine Chemistry In Constructing Diverse Libraries for Screening

A. Kostyuk¹ and A.A.Tolmachev²

¹Institute of Organic Chemistry NAS of Ukraine, ²Enamine

Functional Reactive Groups (FRGs) Determining Biological Activity and Toxicity of Chemicals

Kurchii B. A.

Institute of Plant Physiology and Genetics, Ukraine

Evaluation of High Throughput Assays to Identify CYP450 Inhibitors Utilizing Fluorogenic CYP450 Substrates and Recombinantly Expressed CYP450 Enzymes.

Carmen Laethem, Gregor Zlokarnik,¹ and Paul A Johnston²

¹Aurora™ Biosciences Corporation, ²Sphinx Pharmaceuticals

Dramatically Increasing Hit Rates with Advanced Data Mining Software

Christophe G. Lambert

Golden Helix, Inc.

Oncology Drug Discovery Applications of Fluorometric Microvolume Assay Technology (FMAT)

Jennifer Lee¹, Sheri J. Miraglia², Elana Swartzman², Julia Michelotti², Susan Cornell-Kennon¹, Charles Bruseo¹, Xiong Wei Yan², and Dennis S. France¹

¹The Novartis Institute for Biomedical Research, ²PE Applied Biosystems

Application Development of Imaging Technology for HTS

Peter Leitner

GlaxoWellcome, Inc.

[³⁵S]-GTPγS binding assay in HTS format

E. Le Poul¹, E. Burgeon¹ and M. Parmentier^{1,2}.

¹Euroscreen S.A., Belgium, ²IRIBHN, Brussels School of Medecine, Belgium

Screening for Human Hepatotoxicity

Albert P. Li

In Vitro Technologies, Inc.

Low Volume Scintillation Proximity Assay (SPA) For HCV RNA Dependent RNA Polymerase Using LEADseeker

Yanlong Li, Tongming Chen, Xiaoping Qi, and Kevin R. Oldenburg

DuPont Pharmaceuticals Company

A High Throughput Fluorescent Polarization Assay for Nuclear Receptor Binding Utilizing Crude Receptor Extract

Siqi Lin**, Cindy L. Bock*, Debbra B Gardner, Jeffery C. Webster, Margaret F Favata, James M. Trzaskos and Kevin R. Oldenburg*

Dupont Pharmaceuticals Company,

Scintillation Proximity Assay For Rna Detection

Jianwei Liu, Patricia Feldman, Jonathan Lippy, and Thomas D.Y. Chung

DuPont Pharmaceuticals Company

Homogeneous, Chemiluminescence-Based Assays For Receptor Binding, Cellular Cyclic Amp And Tyrosine Kinase Using The Clipr™ Ccd-Camera-Based Microplate Reader

R. Loor*, I. Vainshtein*, S. Deshpande*, P. Fung*, S. Panah*, S. Zhao, J. Araujo*, B. Lei*, R. Rouhani*, W.A. Coty*, D. Donofrio[‡] and G. Humphries[‡]; DiscoveRx Corporation and Molecular Devices[‡]

Single Molecule Surface Scan for Applications in High Throughput Screening

F. Löscher, J. Westedt, S. Seeger
Molecular Machines & Industries GmbH

Three-day Caco-2 Cultures for Screening Intestinal Absorption

Chuang Lu, Ken Dixon, Paul M. Silber and Albert P. Li
In Vitro Technologies, Inc.

Use of an Assay Development Station For the Rapid Miniaturization of Targets For uHTS

T. Mander¹, M. Busch¹, S. Schaertl¹, A. Scheel¹, A. Henselman¹, A. Siemers¹, B. Funsch¹, S. Marose¹, R. Bethell², N. Benson², F. Stuhmeier², R. E. Sharp³, A. Carlos³, T. Mathewson³ and M. Wallace³
¹EVOTEC BioSystems AG, ²Pfizer Ltd., Sandwich, England, ³Pfizer Inc., USA.

Assay Development Station For Accurate Nanoliter Liquid Handling

S. Marose, M. Busch, S. Schaertl, A. Henselman, A. Siemers, T. Mander, S. Staudacher, A. Ahmels, W. Wurst
EVOTEC BioSystems AG,

Multiplexed Molecular Profiling (MMP) Assays for High-Throughput Measurement of Gene Expression

Ralph Martel¹, Ihab Botros¹, Matthew Rounseville¹, Stephen Felder², Richard Kris², Bruce Seligmann¹
¹Systems Integration Drug Discovery Company (SIDDCO), Inc., ²NeoTech, LLC.

Phosphoinositide 3-kinase Assay on Phospholipid FlashPlates

Busi Maswoswe, Hao Xie, and Li-an Yeh,
NEN Life Science Products Inc.

A High Throughput Screen Targeting Fungicidal Activity Against Plant Pathogens

Jennifer L. McGowen, Judith Fugiel*, Linda M. Traphagen, Usha Warrior, Prem Warrior*, David J. Burns
Pharmaceutical Products Division, R&D, Abbott Laboratories, *Chemical and Agricultural Products Division, R&D, Abbott Laboratories

Industrial Scale Automation at the Whitehead Institute/MIT Center for Genome Research

Kevin J. McKernan¹, Andrew Sheridan, Will Morris, Paul McEwan, Dudley Wyman, James Walsh, Alan Dupes, Jamey Wierzbowski, Karen Foley, Eric S. Lander, Lauren Linton.
¹ Whitehead Institute

Recombinant Human Glucocorticoid Receptor in a Fluorescence Polarization-Based Ligand Binding Assay

Baigen Mei, Cale Halbleib, Mary S. Ozers, E. Brad Thompson¹, William Checovich, and Robert G. Lowery
PanVera Corporation, ¹ Human Biological Chemistry and Genetics, University of Texas

Unit Automation in High Throughput Screening – Following the K.I.S.S. Principle (Keep It Simple, Stupid)

Karl C. Menke, P.E.
Sphinx Pharmaceuticals, A Division of Eli Lilly and Company

Syntheses of Site Specifically-Labeled Peptide/Protein Ligands for Use in FMAT™ Mix-and-Read Cell-Based Binding Assays.

Julia Michelotti¹, Richard Noble¹, Conway Chang¹, Lolita Evangelista¹, Emmanuel Burgeon², Simon Pitchford¹ and Pau-Miau Yuan.
¹Applied Biosystems, ²Euroscreen

Fluorescence Polarization Competitive Immunoassay for I Kβ-α Phosphorylation

Sherri Millis, Toni Law, Frank Lenocho, and Tom Burke
PanVera Corporation

1536 Well Plates and the FMAT™ 8100 HTS System

Sheri J. Miraglia and Edward M. Goldberg*
Applied Biosystems, *Biometric Imaging

The Use of a Novel, Cell Permeable, Caspase-3 Substrate and the FMAT™ 8100 HTS System to Monitor Apoptosis in Whole Cells

Sheri J. Miraglia, Xiongwei Yan, Richard Noble, Julia Mellentin-Michelotti, Lolita Evangelista, Elana S. Swartzman, James R. Hully, and Pau Miao Yuan
Applied Biosystems

Automation of Gene Expression Analysis

Masato Mitsuhashi
RNA^{ture}, Inc.

Interleaving of Automated Secondary Assays for Hits-to-Leads and Lead Optimisation

David R. Mobbs, John Wheable, Keith J. Moore, Mark Salter
GlaxoWellcome, UK

High Throughput Development of Miniaturized Assays with the LJJL ScreenStation™: A Desktop Integrated Workstation for Automated Assay Assembly and Detection

Douglas Modlin, Jon Petersen, Richard Sportsman, and Richard Eglen
LJJL Biosystems

Validation of Protein-Small Molecule Interaction Data Obtained by Affinity Chromatography through BIACORE® - Analysis Relevance for the Characterization of new Therapeutic Targets

Stefan Muellner and Karin Saar
Henkel KGaA

Novel Antibacterial High Throughput Method Measuring Activity With Respect To Time.

M.F. Murray, A.L. Breen, D.D. Jaworski, P.L. DeMarsh, J.A. Chan, V.L. Emerick, R.P. Hertzberg
SmithKline Beecham Pharmaceuticals

Nanobarcoding: A Powerful Technology for Ultraminiature, Very Highly-Multiplexed Assays.

Michael J. Natan
SurroMed, Inc

Today's Screens: Quality As High As The Throughput

Richard M. Nelson, Mohammed A. Kashem, and Carol Ann Homon
Boehringer Ingelheim Pharmaceuticals, Inc.

High-Throughput Screening on Microchips: The Mobility Shift Approach™

Theo Nikiforov
Caliper Technologies Corp.

The ORIGEN Infectious Disease Drug Discovery Panel: Electrochemiluminescent Assays for the Measurement of DNA Polymerase Activity

Qian Ning, Savitha Rao, and Jeffrey A. Heroux
IGEN International, Inc.

TRANSIL®, a New Tool for Functional Immobilization of Transmembrane Proteins by Lipid Bilayers on a Solid Support for High-Throughput Processes

J. Noeller, J. Schmitt and S. Kaufmann
NIMBUS Biotechnology GmbH

HT-PS® 100, An Automated Solution For Post-HTS Lead Profiling Era.

Ilya Okun, Gregory Kaler, Alex Okun
Axiom Pharmaceuticals

New Fluids Systems, HT-PS® 100, For Automated Cell-Based Functional Receptor Assays.

Alex Okun, Gregory Kaler, Ilya Okun
Axiom Pharmaceuticals

The NorthStar™ HTS Workstation: A CCD-Based Platform for High-Throughput Luminescence Screening Assays

Corinne Olesen, Brian D'Eon, Deborah Boldt-Houle, Susan Yan, Betty Liu, Anthony Chiulli, Michelle Palmer, John Voyta and Irena Bronstein
Tropix, Inc./PE Biosystems

The Luminex LabMAP™ System: I. A Rapid, Homogeneous Multiplexed Assay Platform.

Kerry Oliver*, Lekha Patel, Janet Davis, Lee Peligrino, Scott Wadsworth, John Siekierka, Alex Collins, Robert Zivin.
RWJ Pharmaceutical Institute, *Luminex Corporation

The Luminex LabMAP™ System: II. Combining UHTS with High Content Screening to form the Luminex HTS.

Kerry G. Oliver, Lekha Patel*, Joshua Kemp, Robert A. Zivin*, and James W. Jacobson.
Luminex Corporation, * RWJ Pharmaceutical Institute

Comparison Of Formats In Traditional Delfia And Solution Binding Then Capture

Jeremy W. O'Neill¹, Barbara Kozikowski, David Frendewey², and Rostislav Chernomors³
¹Procter and Gamble Pharmaceuticals, ²Regeneron Pharmaceuticals, ³Regeneron Pharmaceuticals

Integrating Cell-Based And Biochemical Screening Approaches For The Identification Of Novel Small Molecule Regulators Of Orphan Nuclear Receptors.

Peter Ordentlich, Grace Yan, Ed Marples, Jay Hou, Ira Schulman, and Lora Heiner
X-Cepto Therapeutics Inc

High Throughput Purification of Big Dye Terminator Fluorescent DNA Sequencing Reactions.

Paul Otto, Michael Bjerke, Evelyn Stencil, Lydia Hung, Jo Grosch, Steve Krueger, Steve Ekenberg, Gary Shiels
Promega Corporation

Determination of 3,4-Dihydroxy-2-Butanone-4-Phosphate Synthase Activity

Michael A. Piccollelli,¹ Paul V. Viitanen,² and Douglas B. Jordan¹
¹DuPont Pharmaceuticals Company, ²DuPont Central Research & Development

A Time-Resolved Fluorescence Assay for the Simultaneous Detection of MEK6 and p38 Inhibitors in the MAP Kinase Cascade.

Steven Pierce, Brion Murray, and Charles Grimshaw.
Signal Pharmaceuticals

Screening Herbals and Natural Products: Discovering Immunostimulants Using a Luciferase Reporter Gene Assay for NF-kappa B in THP-1 Cells

Nirmal Pugh,¹ David S. Pasco*,^{1,2} Ikhlas A. Khan,^{1,2} Samir A. Ross,^{1,2} Mahmoud A. ElSohly,^{2,3} Dale G. Nagle,¹ and Erdal Bedir.²
Department of Pharmacognosy,¹ National Center for Natural Product Research,² and Department of Pharmaceutics,³
Research Professor,* School of Pharmacy, University of Mississippi,

Application of the Cell Profiler to Understand the Mechanism of Compound Toxicity

John T. Ransom
Axiom Biotechnologies, Inc.

A High Throughput Screening System for Calcium Channel Modulators

B. Rasnow, J. Lile, K. Kearns, R. Tamir, J. Treanor.
Amgen Inc.

ALPHAScreen: A Novel, Non-Radioactive Technology For High Throughput Screening Of cAMP Accumulation With A Gi-Coupled Chemokine Receptor

Philip Rawlins, Graeme Wilkinson, Mark McHale, Elaine Sullivan and Martin Coldwell
AstraZeneca R&D

A Comparison of cAMP Accumulation Assays for High Throughput Screening

¹Philip Rawlins, ¹Ann Fowler, ¹Kirsty Rich, ²Janet Park, ²Pat Kasila, ¹Elaine Sullivan and ¹Martin Coldwell
¹AstraZeneca R&D Charnwood, ² NEN Life Science Products, Inc

Identification Of Wortmannin As A New Potent Polo-Like Kinase 1 Inhibitor By Screening Natural Products

A. Roa^{1*}, A. Espada¹, A. Vega¹, A. Rivera¹, J. de la Fuente¹, J.A. Hueso¹, J.M. Sánchez-Puelles¹, C. Imburgia², K. Nguyen³, A. Roshak², J. R. Jackson³ and E. Diez¹.
SmithKline Beecham Pharmaceuticals ¹Department of Molecular Screening Technologies (Spain)
²Department of Immunology (King of Prussia, PA), ³Department of Oncology Research (King of Prussia, PA)

Ultra-Fast Dispensing for HTS in High-Density Plates

Don Rose, and Tom Tisone
Cartesian Technologies, Inc.

Miniaturised Fluorescence-Based Assays for Seven-Transmembrane Domain Receptors

Martin Rüdiger, Stephen Ashman, Ulrich Haupts, Lorena Kallal, Dwight Morrow, Sandra Turconi, Andrew Pope
SmithKline Beecham Pharmaceuticals

The Quality Lead Generation Through “Integrated Intellectual Chemistry” Approach

Nikolay Savchuk, Alexander Ivachtchenko
ChemDiv, Inc., Sergey Trepalin, Institute Physiologically Active Compounds, Russia

Specialized Surfaces and Plate Formats for High Throughput Cell-Based Assays

Wendy Scholz
Nalge Nunc International, Corporation

Development Of A Model To Predict Inhibition Of Cytochrome P450 Based On HTS Data

Christina K. Schulz¹, Erica M. Stec¹, Glenn A. Hofmann¹, Paddy Lavery², Murray J. Brown², Andrew J. Pope², Angela M. Bridges³, Mike G. Tennant⁴, Tanya Coleman⁵, Tin-Sun Hung⁶, Joel T. Saunders⁶, George Seibel⁶ and Ricardo Macarron¹
SmithKline Beecham Pharmaceuticals: ¹Screening Sciences USA, ²Molecular Interactions UK, ³Gene Expression UK, ⁴CASS UK, ⁵DMPK UK, ⁶Cheminformatics USA

The Advantages of Running FLIPR Assays with Two Cell Lines in One Well

Sergio Senar, Francisco Colilla, Isabel Coma, Emilio Diez and Maite de los Frailes.
SmithKline Beecham Pharmaceuticals, Department of Molecular Screening Technologies.

Generation of Drug Discovery Knowledge through the Application of Advanced Informatics to High Content Screening.

Ian Shaw
Momentum Healthcare Ltd UK

384-Well, Yeast Whole Cell Screening of a Dissimilarity Sub-library Using a Temperature Sensitive, Permeability Mutant, and Wild Type Strain of *Saccharomyces cerevisiae*.

Michael P. Sheets and Yoshi Yagi;
Discovery Technologies, Pharmacia Corporation

Development Of Attenuated Pcr For High Throughput Multiple Geneexpression Analysis

Song-Hua Ke, LiLi Zhang, Ken Sato, Masato Mitsuhashi
Hitachi Chemical Research Center

Advantages of Directionally Immobilized 6xHis-tagged Proteins for Capture Assays

Kerstin Steinert, Stephan Wahle, Petra Söhnlein, and Joachim Ribbe
QIAGEN GmbH

Fully Automated 96-Well Protein Purification And Magnetic-Bead Based Assay Using 6xHis - Ni-NTA Technology

Kerstin Steinert, Stephan Wahle, Frank Schäfer, Petra Söhnlein, Regine Stoll, and Joachim Ribbe
QIAGEN GmbH,

Concepts for In-Vivo Screening

Hans C. Steinrücken & Dietrich Hermann
Novartis Crop Protection AG

Evaluation Of Different Microtiter Plate Readers For The Development Of FP And HTR-FRET Assays In 384- And 1536-Well Plates

Elizabeth Storch, Seamus Ragan, Teresa Born, Stewart Chipman and Jinzi J. Wu
Immunex Corporation

Accelerated Lead Identification, a Result of Process Industrialization

Berta Strulovici
Merck & Co.

LabChip® Screening – the Future is Now

¹Philip Tagari, ²Angelica Fields, ¹Jennifer Dao, ²Hong Xing, ¹Carol Mayeda, ²Claudia Cohen, ¹Chuck Li and ¹Brian Rasnow
¹Amgen Inc., ²Caliper Technologies Corp.

Fluorescence Polarization Based 1536-well Format Assay for Tyrosine Kinase

Weimin Tang, Julie Li and Damien Dunnington
Hoechst Marion Roussel

Miniaturization of the Phosphodiesterase Assay

Peter J. Tatnell and Molly Price-Jones
Amersham Pharmacia Biotech UK Limited

Measurement Error in High Throughput Screening

Kay Tatsuoka, Sunny Hung, Paul Konstant, Edit Kurali, George Seibel, Frances Stewart, Ruey Wang, Jeff Wiseman
SmithKline Beecham Research and Development

Cydye™ Derivatives - A New Fluorogenic Tool For Facile Peptide Labelling

M. L. Teear*, V. Millar, J. A. Alcock, D. M. James, M. Briggs and D. D. Burns
Nycomed Amersham plc.

An Automated, Confocal Micro-Imaging System for Rapid, Real-Time Analysis of Novel Cellular Assays

J. Trautman, T. D. Harris, R. L. Hansen, J. I. Colonell
Praelux Inc./ Amersham Pharmacia Biotech

Quantification Of Expression Levels From A COS Transfection Using An IGEN M-Series Analyzer.

John J Trill, Michael Brigham-Burke, Dean McNulty, and Allan R Shatzman.
SmithKline Beecham Pharmaceuticals

New Europium Cryptates to Probe Molecular Interactions Using HTRF®

Eric Trinquet, H. Bazin, A. Blériot, Vincent Piccio, G. Mathis
Cis Bio International, Research and New Technologies

In Vitro Heme Polymerization Assay By Different Methods: Comparative Inhibition With Quinoline and Endoperoxide Antimalarials

Abhai K. Tripathi and Babu L. Tekwani
Biochemistry Division, Central Drug Research Institute, India

Development of a Competitive Serine Kinase Fluorescence Polarization Assay Using an Anti-Phosphoserine Substrate Specific Antibody

Tammy C. Turek, W. Adam G. Hill
Schering-Plough Research Institute

Maximizing the Efficiency of Cell-Based Reporter Assays

Curtis Tyree
Ligand Pharmaceuticals, Inc.

Multimode Detection and High-Performance Miniaturized Screening using the EVOscreen²™ Platform

Dirk Ullmann*, Michael Busch, Karsten Gall, Nicolas Hunt, Thomas Mander, Eloisa Lopez-Calle, Julian Wölcke, and Timm Jessen
EVOTEC BioSystems AG

Melanophore Technology for Identifying Ligands to Known and Orphan G-Protein and Tyrosine Kinase Coupled Receptors

David J. Unett, Ethan A. Lerner and Michael R. Lerner
Bunsen Rush Laboratories

Homogeneous Assays For Tyrosine And Serine/Threonine Kinases Based On Enzyme Fragment Complementation

I. Vainshtein, S. Deshpande, S. Panah, B. Lei, R. Rouhani, and W.A. Coty; DiscoveRx Corporation

Development Of Rapid Glucuronidation Screening Methods With Isolated Recombinant Ugt Isozymes

John F Van Herwynen, Olga V Trubetskoy, Robert G Lowery*

PanVera Corporation

Lead selection process by a multidisciplinary hit-to-lead effort

M. Vasänge, J. Vågberg, P. Garberg, T. Wehler, S. Haile and B. Lindqvist
Pharmacia Corporation, Sweden

Continuous Format High Throughput Screening of Serine-Threonine Kinases

Martin J. Voorbach, Jennifer B. Donnelly, Kenneth M. Comess, James L. Kofron, David J. Burns
Pharmaceutical Products Division, R&D, Abbott Laboratories

Nanoliter AlphaScreen Assays on OASIS™ LabCard, a Novel Miniaturization Solution for Biological Assay Development and HTS

CJ Wang¹ and Sharat Singh²

¹Packard Instrument Co., ²ACLARA Biosciences

PACS: A Novel Assay System for Identifying Inhibitors of Proteases with Complex Substrates

Shaojie Wang, Debbie Wancio, Jian Pang, Rolf Menzel, Prabha Fernandes
Morphochem-Small Molecule Therapeutics, Inc.

Use of Plasma Reactions for the Semi-Random Derivatization of Pharmaceutical Leads

J. B. West, B. M. Johnson, T. A. Miles, D. R. Kamperman, and W. C. Babcock

Bend Research, Inc.

F. W. Berman and T. F. Murray. Dept. Of Physiology and Pharmacology, College of Veterinary Medicine, University of Georgia, Athens, Georgia

I. Singh and W. H. Gerick. Dept. Of Chemistry, Oregon State University, Corvallis, OR

New Luminescence Imagers for High Throughput Screening – Features and Applications

Stefan Winter

CyBio AG

30k-High-Performance-Screening for Activators of Latent p53

Wölcke, J., Hunt, N., Klumpp, M., Röhr, C., Schulz, A., Krause, I., Wabnegger, J., Kuhn, M., Talibova, I., Köster, S., May, K., Heibey, M., Siemers, A., Beringer, B. and Ullmann, D.

EVOTEC BioSystems AG

Development of a High-Throughput Endothelial Cell Invasion System for the Discovery of Angiogenesis Modulating Drugs

Min Wu, James Maliakal, Blake Perkins, Steve Ilsley, Frank Mannuzza, and Paula Flaherty

BD Biosciences

The TC7 Cell Monolayer is a Valuable In Vitro Model for Intestinal Permeability Screening

XC Wu, M Davis, S Gokhin, SS Lee, J Williford, X Wang, and MC Bodinier

Cerep, Inc.

Fluorescent Based Ser/Thr Kinase Screens

YanYan Xie, Ling Xiong, Karen Kearns and David Powers

Amgen, Inc.

In Vitro Rapid Screening Of Oral Drug Absorption From Solid Dosage Form: A New Chamber System For Simultaneous Evaluation Of Dissolution/Permeation Of Poorly Soluble Drugs

Shinji Yamashita¹⁾, Makoto Kataoka¹⁾, Sezaki Hitoshi¹⁾, Yukihiro Furuyama²⁾

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A High Efficiency Fluorescence Polarization Assay (HEFP) For Dopamine D₂ Receptor Binding

Meng Zhang, Irina Mineyev, S. Deshpande, Peter Panfili. and Richard Sportsman

LJL BioSystems, Inc.

High Efficiency Fluorescence Polarization (HEFP) Assay of Cellular cAMP

Yan Zhang-Klompus, Janet Daijo, Meng Zhang, Peter Panfili, Richard Sportsman,

Screening of Natural Products in a 384-Well Format Using Two Nuclear Receptor TRF Assays

Annie Zhao, Lisa Wang, Jisong Cui, Sudha W. Mitra, Steven J. Gould, Leeyuan Huang

Merck Research Laboratories

A Standard Operating Procedure for Assessing Liquid Handler Performance in HTS

Paul B. Taylor,¹ Stephen A. Ashman,³ Brian C. Bond,² Steven M. Kubala,¹ Ricardo Macarron,¹ Fernando Ramon¹ and Andrew J. Pope³