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Maximizing Licensing Opportunities in Research Tools

Welcoming remarks will begin at 11:55 a.m. Eastern Time.

The formal presentation will begin at Noon Eastern

For audio, dial in by phone: +1-866-365-4406 Access code 5627649

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Maximizing Licensing Opportunities in Research Tools

Speakers:

James Hoberg, Ph.D., EMD Millipore Corporation David Silva, Ph.D., Albert Einstein College of Medicine

August 12, 2014



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Questions?

We look forward to answering your questions today.



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Operator Assistance

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- AUTM Technology Transfer Practice Manual
- AUTM Licensing Activity Survey (currently for United States and Canada)
- AUTM Update



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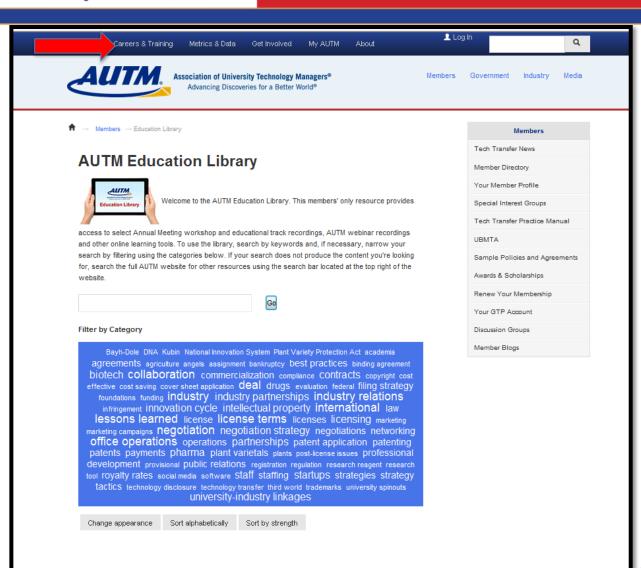
Additional Benefits

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David Silva, Ph.D

Albert Einstein College of Medicine



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James Hoberg, Ph.D.

EMD Millipore, Corporation



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Maximizing Opportunities in Research Tool Licensing

David Silva, Ph.D.
Assistant Director
Office of Business Development
Albert Einstein College of Medicine

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Experience:

- Ten years of life science BD and licensing experience.
- Industry and academia.

Association of University Technology Manager Advancing Discoveries for a Better World

- Seven years at Einstein.
- Research tools, licensing/startups and industry collaborations/seed fund activities.



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Overview

- Definition of a research tool.
- NIH principles and guidelines.
- Licensing issues/considerations.
- Success stories.



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What Is a Research Tool (NIH definition)?

Research Tools encompass "the full range of tools that scientists use in the laboratory, including cell lines, monoclonal antibodies, reagents, animal models, growth factors, combinatorial chemistry, DNA libraries, clones, cloning tools, methods, laboratory equipment and machinery."- NIH



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NIH Principles

- Maximize use of research findings.
- Promote utilization, commercialization and public availability of these inventions.
- Avoid inappropriate licensing practices.



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NIH Guidelines

- Determine if the material/technology is a research tool or product.
- Limit encumbrances for "internal research use" agreements.



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AUTM Professional Development Programs

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Research Tool or Product?

- Tool for discovery or FDA-approved product?
- Broad, enabling invention or project/productspecific resource?
- Readily useable or distributable, or requires investment to develop/distribute?

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To Patent or Not?

- Is it unique chattelle (e.g., an antibody)?
- Will it have value in the absence of a patent (i.e., method)?
- Potential ROI.
- Title must be elected for unpatented research tools.*

^{*}https://public.era.nih.gov/iedison/public/biological-materials.jsp)



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Exclusive vs. Non-Exclusive Licensing

"Exclusive licenses should be avoided except in cases where licensee makes the tool widely available through <u>unrestricted sales</u> or licensor <u>retains rights</u> to make the tool widely available."

"Ordinarily, exclusive licenses should be limited to the commercial field of use."



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Benefits of Research Tools Licensing:

- Fulfills public access obligation
- Facilitates research
- Reduces burden on faculty
- Additional revenue source



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Commercial Licensee vs.

Repository

- Number of diverse repositories (Addgene, Jackson Labs, ATCC, etc.).
- Reduce burden on faculty and fulfills public access.
- Potentially reduces value of deposited technologies.



Research Tool Licensees:

- Internal research agreements (e.g., Merck, Sanofi, etc.).
- Non-exclusive (e.g., EMD Millipore, Santa Cruz, etc.).
- Exclusive (e.g., Life Technologies/ThermoFisher, etc.).



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Examples of Attractive Research Tool Technologies:

- PCR (Cetus Corporation)
- GFP (Columbia, UCSD, etc)
- GST (WEHI)
- 4G10 (Dana Farber)
- Leukemia Inhibitory Factor (WEHI)



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Ones That Got Away:

- Chromatin Immunoprecipitation Assay
- Immunoblot
- ELISA assay

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Einstein Success Stories

- Antibodies
- Mouse Models
- Neurological Tests
- SLICE



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Experience

- 2005-2007 Harvard OTD
- Howard Bremer Scholarship Winner
- 6+ Years Reagent Licensing
- >250 Licenses
- >500 products



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Genesis of EMD Millipore's Top reagent companies brought together by Serologicals Corp and acquired by Reagent Business Millipore in July 2006.

Merck KGAa acquires Millipore in July 2010.

Serologicals

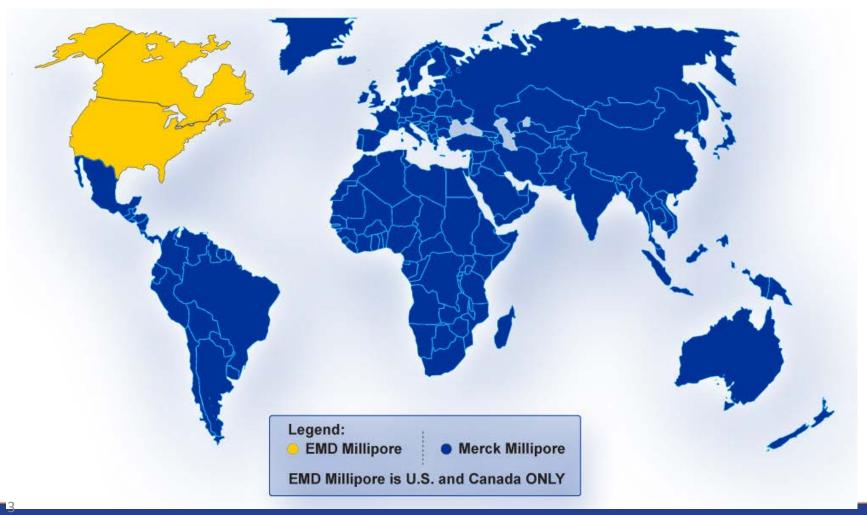
2003:Chemicon acquired by Serologicals

2006: All acquired by Millipore 2006: LINCO acquired by Serologicals 2006: Cytomyx Limited acquired by Serologicals 2004: Upstate acquired by 2010: Merck KGAa acquires Millipore



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Merck Millipore vs. EMD Millipore: what's in a name





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Overview of Topics

- About EMD Millipore Reagent Licensing
- Methods for Selecting New Reagents
- Criteria for Selection
- Challenges
- EMD Millipore Licenses
- Marketing to EMD Millipore
- Best Practices Suggestions



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About EMD Millipore Reagent Licensing

- Model Upstate/Chemicon
- Relationship Model
- Primary Source of Ideas from Academia
- Highest Selling Products
- Worldwide Partners



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Methods for Sourcing New Reagents

- Literature Sourcing
- Thought Leaders
- Networking
- Conferences
- Additional Questions
- Google
- Technology Transfer Offices



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Criteria for Selecting New Reagents

- Published
- Publication Trends
- Applications
- Requests
- Competition
- Literature References
- Novel Target



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Challenges

- Unpredictable Market
- Reluctant Inventors
- Financial Terms
- Polyclonal Antibodies
- Validation
- Resupply



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EMD Millipore Tool Licenses

- Non-Exclusive
- Balance of Licensing Fees and Royalties
- Hybridomas preferred but not required
- Polyclonal Antibody/Volumes
- No Patent
- Validation Clauses
- Master Agreements Preferred



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Marketing Research Tools to EMD Millipore

- Published
- New and Unique
- Requests
- Identify Key Applications
- Data
- Comparisons to other commercial antibodies
- Direct contact rather than website listing
- Ideal before they are published



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Benefits to University

- Alleviate Investigator Requests
- Less MTAs
- Improve Relationships with Investigators
- Distribution of Licensing Revenue to labs
- Investigator Pride
- Increase Metrics



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If I was part of a Licensing Office......

- Increase Revenue Share with Faculty
- Licensing Royalty to Lab "Slush" Fund



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Professional Development with Tool Licenses

- Volume of opportunities
- Build confidence
- Prepare for larger and more complex licenses
- Look great for deal sheets



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Questions

- James.Hoberg@emdmillipore.com
- 978 810 0745



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Questions? Comments?



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Policymakers and Technology Transfer

Life Science Licenses: The Good, the Bad, and the Ugly

Clean up on Aisle 3!

Demystifying Government Use Rights

Royalty Monetization – Primer, Current Trends, and Best Practices

Royalties and Relationships – Keeping Current, Complete and Congenial

Taming the MTA Beast: Tips for Successfully Negotiating

Post-grant Proceedings under the AIA- How Do They Affect My University?

(More Added Monthly)

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Register now for AUTM's next webinar

- Stakeholder Identification and Management
 - August 19
- Managing Your Agreement: What to Do When Things Don't Go According to Plan!
 - Sept 10



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- Innovation Funds
 - September 24
- Export Controls, MTA's, CDA's and LA's
 - October 1

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AUTM Eastern Region Meeting

Sept. 18 – 19, 2014

Baltimore Marriott Inner Harbor Baltimore, MD USA

AUTM Western Region Meeting

Date: Oct. 2 – 3, 2014

Seattle Marriott Waterfront

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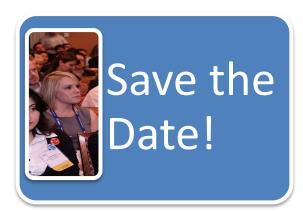
AUTM TOOLS & Essentials Course

Oct. 13 – 15
Westin Denver Downtown
Denver, CO USA

Register Today!

AUTM Successful Practices in Small Technology Transfer Offices

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AUTM Courses



AUTM Partnering Forum (Neuro/Ortho Medical Device Technology)

Sept. 23 – 24

Hosted by Wake Forest Innovations Winston-Salem, NC USA

AUTM Business Development Course

Nov. 12 – 13 The Westin O'Hare Rosemont, IL USA



Save the Date!



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AUTM Annual Meeting





Save the Date!

Feb. 22 – 25

New Orleans, LA USA

