



Dow AgroSciences

Dow AgroSciences, LLC

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dowagro.com

July 21, 2015

Nuclear Materials Licensing Branch
U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road
Suite 210
Lisle, IL 60532-4352

Notification regarding Dow AgroScience's Broad Scope Materials License No. 13-26398-01

This Notification is to inform you of a membership change to Dow AgroSciences Radiation Safety Committee. The Radiation Safety Committee has unanimously agreed to the following replacement; Jeff Gilbert will replace Robin Yoder as one of the three Technical Representatives on the committee. Dr. Gilbert is a Fellow in the Regulatory Sciences Group and Technical Leader of the Mass Spectrometry lab. He has been an Authorized User in our Radiation Safety Program for more than 17 years conducting and supervising numerous radioisotope studies and analytical assays. His *Curriculum Vitae* is attached.

Please update Dow AgroSciences' records to reflect this change. The committee membership change prompt NRC notification (pursuant to NUREG-1556, vol 11. rather than a license amendment). Please contact me if you have any questions regarding this information.

Sincerely,

Roben Roberts
Radiation Safety Officer
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Curriculum Vitae

Jeffrey R. Gilbert
Dow AgroSciences, LLC
9330 Zionsville Rd.
Regulatory Sciences and Regulatory Affairs
Indianapolis, IN 46268-1053

Education:

The College of Wooster, Wooster, OH, B.A. (chemistry), 1985

Michigan State University, East Lansing, MI, Ph.D. (Analytical Chemistry), 1990

Experience at Dow AgroSciences LLC:

- 1998-Present** Group Leader, Mass Spectrometry Lab (Regulatory Sciences)
Conducting and supervising the radio assays in support of hundreds of discovery and regulatory studies
Supervise 4-6 Authorized Users conducting radio assays in the Mass Spectrometry Lab
- 1995-1998** Technical Leader, Analytical Lab (Environmental Chemistry)
Conducted several radio-labeled Fate and Metabolism studies for regulatory submission
Developed analytical methods for identifying metabolites within the Fate and Metabolism group
- 03/03/1997-present** Dow AgroSciences Radioisotope Authorized User
1997-present Dow AgroSciences Annual Radioisotope Authorized User Training
Completed training annually
Group leader of authorized users since 1998

Additional Experience

1996-Present Adjunct Faculty, Butler University, Indianapolis, IN (currently teaching Organic Spectroscopy and Mass Spectrometry)

1994-1995 Adjunct Faculty, Delta Community College, University Center, MI (introductory chemistry lecture and laboratory courses)



Recent External Publications

1. "Identification of Environmental Metabolites using Combined High Resolution UPLC-QqTOF and Ultra High Resolution NanoLC-QqITOT Based Approaches"; Jeffrey Gilbert; Jesse Balcer; Yelena Adelfinskaya; Suresh Annangudi; David McCaskill; Pete Johnson; Gerrit DeBoer; Mike Hastings; Dow AgroSciences, Indianapolis, IN, Oral Presentation at The 62th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Baltimore, MD, June 15-19, 2014Bargar, T. M., Lett, R. M., Johnson, P. L., Hunter, J. E, Chang, C. P., Pernich, D. J., Sabol, M. R. and Dick, M. R., "Toxicity of Pumiliotoxin 251D and Synthetic Analogs to the Cotton Pest *Heliothis virescens*", *J. Agric. Food Chem.*, **1995**, 43(4), 1044-51.
2. "Combined Isotopic Enrichment, High-Resolution MS, and Advanced Software Tools to Aid in the Identification of Trace-Level Environmental Metabolites by LC/MS"; Jesse L. Balcer¹; Jeffrey R. Gilbert¹; Yelena A. Adelfinskaya¹; Leah Luna²; Jeffrie Godbey¹; Pete L. Johnson¹; Gerrit J. DeBoer¹; Ayanna U. Jackson¹; Amber R. Mahan¹; ¹Dow AgroSciences, Indianapolis, IN; ²The Dow Chemical Company, Midland, MI, Presented at The 62th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Baltimore, MD, June 15-19, 2014Hackler, R. E., Suhr, R. G., Sheets, J. J., Hatton, C. J., Johnson, P. L., Davis, L. N., Edie, R. G., Kaster, S. V., Jourdan, G. P., Jackson, J. L., Krumkalns, E. V., "Chemistry, Intrinsic Activity and Miticidal Activity of Fused Pyrimidine Derivatives of Fenazaquin". *Advances in the Chemistry of Insect Control III*; Briggs, G. G., Ed; The Royal Society of Chemistry: Cambridge, U. K., 1994; pp 70-84.
3. Comparison of Data-Dependent Acquisition (DDA) and Data-Independent Acquisition (DIA) Strategies in Discovery and Label-Free Quantitation of a Complex Proteome; Suresh Annangudi; David McCaskill; Jeffrey Gilbert; Dow Agrosciences, Indianapolis, IN, Presented at The 62th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Baltimore, MD, June 15-19, 2014
4. "Industrial Applications of High Resolution GC/MS." Jeffrey R. Gilbert, David McCaskill, Vyacheslav N. Fishman, Kathy Brzak, Dan Markham, Michael J. Bartels, Bill Winniford, Sheher Bano Mohsin, Jeffrie Godbey, Olujide Akinbo and Paul Lewer, Invited book chapter in Elsevier's 'ADVANCED TECHNIQUES IN GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS-MS AND GC-TOF-MS) FOR ENVIRONMENTAL CHEMISTRY', edited by Imma Ferrer and E. Michael Thurman included in the series 'Comprehensive Analytical Chemistry' edited as a whole by Damia Barcelo. (2013)
5. "In-field Agrochemical Analysis using Ambient Ionization and a Handheld Mass Spectrometer" Pu Wei, Joshua S. Wiley, Jiangjiang Liu, Chris Pulliam, Ayanna U. Jackson, Holger Tank, Jeffrey R. Gilbert, Jim Gifford, Kerrm Yau, John Whitteck, Zheng Ouyang, R. Graham Cooks, Presented at The 61th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Minneapolis, MN, June 9-13, 2013.
6. Development and Validation of a Multiplex LC-MS/MS Strategy for the Quantitation of Plant-Expressed Proteins, Oman, Trent (TJ), Schafer, Barry (BW); Gilbert, Jeff (JR); Lawry, John (JR); Schwedler, Debbie (DA); Wendelburg, Brian (M) The 60th American



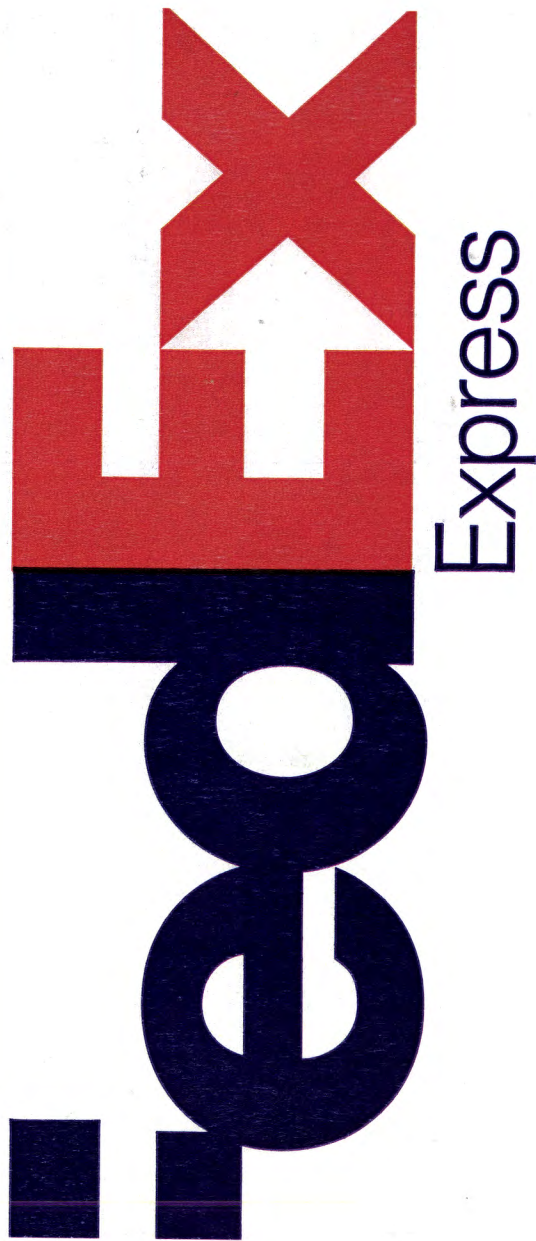
Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics,
Vancouver, BC, Canada, May 20-24 2012

7. Protein Structure Analysis using H/D Exchange and MALDI In-Source Decay, Annangudi Palani, Suresh B. (S), McCaskill, David (DG); Li, Jianquan (J); Balcer, Jesse; Graupner, Paul; Evans, Steve (SL); Gilbert, Jeff (JR) The 60th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Vancouver, BC, Canada, May 20-24 2012P. Johnson, J. Balcer, J. Gilbert, M. Krieger and T. Martin, "Preparation of Isotopically Labeled Standards of Spinetoram", *J. Labelled Compd. Radiopharm.*, 53(5-6), 322-329 (2010).
8. LC/MS and GC/MS Accurate Mass Applications to the Identification of Trace Level Metabolites and Impurities, Gilbert, Jeff (JR), Godbey, Jeff (JA); Balcer, Jesse; Adelfinskaya, Yelena (A); Hastings, Mike (MJ); Wendelburg, Brian (M); Ma, Mingming (MM) invited presentation at the Pittcon Conference on Analytical Chemistry and Applied Spectroscopy, Orlando, Florida
9. USING HPLC-TOF (TIME-OF-FLIGHT) MASS SPECTROMETRY IN NATURAL PRODUCTS DEREPICATION, Xiong, Quanbo (Q), Fotso, Serge (S); Grayson, Melinda (M); Graupner, Paul; Hahn, Don (dr); Lewer, Paul (P); Gilbert, Jeff (JR); Lawler, Lori (LK) The 52nd American Society of Pharmacognosy annual meeting, San Diego, CA
10. Development of Small Molecule Analysis Methods Using Nano-Assisted Laser Desorption Ionization TOF/TOF (NALDI TOF/TOF) for the Detection of Agrochemicals, Jackson, Ayanna; Ma, Mingming; Adelfinskaya, Yelena; Balcer, Jesse; Gilbert, Jeffrey; Annangudi Palani, Suresh B.; presented at The 59th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Denver, CO, June 5-9 2011.
11. Xenobiotic metabolite identification at ultra-trace levels using alternate separation and ionization techniques including NALDI-TOF and chip-based nanoseparations., Gilbert, Jeffrey R., Balcer, Jesse; Annangudi Palani, Suresh B. (S); McCaskill, David (DG); Adelfinskaya, Yelena (A); Hastings, Mike (MJ); Wendelburg, Brian (M), Presented at the 58th American Society for Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Salt Lake City, UT, May 23-27th, 2010.



Issued United States Patents

1. Paul Lewer, Donald R. Hahn, Laura L. Karr, Paul R. Graupner, Jeffrey R. Gilbert, Thomas V. Worden, Raymond C. Yao, Dennis W. Norton, "Pesticidal Macrolides" CA 2384572 C, Abstract: Macrolide compounds produced by culturing *Saccharopolyspora* species LW107129 (NRRL 30141) have insecticidal and acaricidal activity and are useful intermediates for preparing spinosyn analogs.
2. Donald R Hahn, Jesse L Balcer, Paul Lewer, Jeffrey R Gilbert, Paul R Graupner, "Pesticidal spinosyn derivatives" WO2002077005 A1, Abstract: Macrolide compounds produced by culturing novel mutant *Saccharopolyspora* sp. strains have insecticidal and acaricidal activity and are useful intermediates for preparing spinosyn analogs.
3. Jeffrey R Gilbert, Paul R Graupner, Donald R Hahn, Laura L Karr, Paul Lewer, Dennis W Norton, Thomas V Worden, Raymond C Yao, "Pesticidal Macrolides" WO 2001019840 A1, Abstract: Macrolide compounds produced by culturing *Saccharopolyspora* species LW107129 (NRRL 30141) have insecticidal and acaricidal activity and are useful intermediates for preparing spinosyn analogs.



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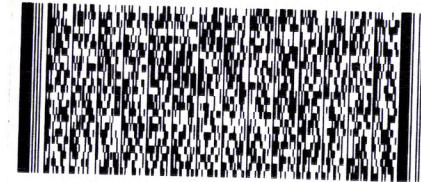
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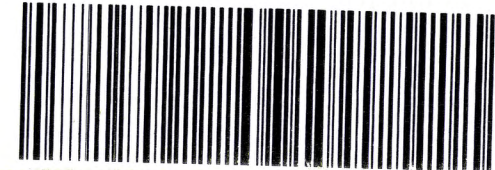


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