

Anthony A. Provatas

University of Connecticut
Center for Environmental Sciences and Engineering
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EDUCATION

2002 **University of Connecticut** **Storrs, CT**

Ph.D., Chemistry

Doctoral Dissertation Title:

Light Induced Photochemical Transformations: A “Green” Alternative in Organic Synthesis and Chemical Waste Treatment

1998 **University of Connecticut** **Storrs, CT**

M.S., Chemistry

Thesis Title:

Approaches to a Practical Photocleavable Protecting Group for the Alcohol Functionality

1992 **Aristotle University** **Thessaloniki, Greece**

B.S., Chemistry

PROFESSIONAL EXPERIENCE

March 2009-Present **University of Connecticut, Storrs, Ct**

Laboratory Head

Center for Environmental Sciences & Engineering

Research Efforts Include:

- Manage Lab Activities and Personnel in the Biofuels and Environmental Organic Laboratories
- Set up ASTM Testing and Instrumentation for the Biofuels Laboratory
- Perform ASTM Testing on Biofuel Samples
- Set up Testing and Instrumentation for the Environmental Organic Laboratory
- Method Development and Processing of Environmental Organic Samples
- Operation of UPLC-MS/MS, GC-MS/MS, GC-FID and GC-ECD

December 2007-March 2009 **Pfizer Inc., Groton, CT**

Separation Scientist

High Throughput Screening - Center of Emphasis

Research Efforts Include:

- High Throughput Sample Analysis for Identification and Quantitative Assessment of HTS and DASH Compounds using both HPLC/MS/UV/ELSD and UPLC/MS/UV/ELSD
- Competency in Data Analysis and Visualization Tools such as MassLynx.
- Responsible for Reporting Results of Analysis to Groton Discovery Chemists

August 2007-December 2007

Pfizer Inc., Groton, CT

Separation Scientist

Sample Purification and Assessment (SPA) Team

Research Efforts Included:

- Purification and Analysis of Combinatorial Libraries for the Groton Chemistry Community.
- QC analytical purity/ semi-quantitative assessment of purified compounds using both HPLC/MS/UV/ELSD and UPLC/MS/UV/ELSD
- Separation of impurities and degradants from target compounds using HPLC/MS/UV/ELSD technology.
- Competency in Data Analysis and Visualization Tools such as MassLynx.
- Responsible for Reporting Results of Analysis to Groton Discovery Project Teams
- Development and Implementation of High-Throughput Achiral Chromatography Assays and Preparative Purifications of Combinatorial Libraries via Automated LC-MS.

October 2001-August 2007

Pfizer Inc., Groton, CT

Combinatorial Chemist/Separation Scientist

Automated Synthesis Analysis and Registration (ASAR) Team

Research Efforts Included:

- High Speed Automated Synthesis, Purification, and Analysis of Hit-to-Lead Stage Combinatorial Libraries for the Groton Chemistry Community.
- Worked as a team member with other scientists, IT, and project team customers in a flexible way to improve data distribution, reported parameters, and a timeline for results
- Publishing and Retrieving Screening data from ORACLE databases using query tools (analytical tool kit to upload ASAR data into the RIF and data retrieval using Rgate and Pipeline Pilot protocols)
- Development and Implementation of High-Throughput Achiral Chromatography Assays and Preparative Purifications of Combinatorial Libraries via Automated LC-MS.
- Extensive use of Tecan Liquid Handling Robots, Tecan Weigh Stations, Biotage Initiator Microwave Reactors, Genevac Mega 600 Evaporators, and Waters/Micromass Analytical and Preparative LC-MS Instrumentation.
- Instrumentation Maintenance and Troubleshooting
- Extensive use of Electronic Enumeration, Monomer Ordering, Record Keeping, and Compound Registration Software Enroute to Combinatorial Library Production.

- Management of Daily Laboratory Activities.

April 2001 – October 2001

Pfizer Inc., Groton, CT

Medicinal Chemist

Discovery Inflammation

Research Efforts Included:

- Design, Synthesis, Purification and Characterization of Small Organic Molecules
- Extensive use of Synthetic Organic, Medicinal Chemistry, and Quantitative Structure-Activity Relationship Literature and on line Databases.
- Extensive operation of HPLC, IR, MS, LC-MS, GC-MS, NMR

1993 – 2001

University of Connecticut, Storrs, CT

Research Assistant

- Research involved Multi-step Organic Synthesis of Organic Molecules and their Synthetic Transformations under Visible or UV Light. Environmental Friendly Alternative Synthetic Methods and Waste Degradation

1993 – 2001

University of Connecticut, Storrs, CT

Teaching Assistant

- Taught Sophomore and Senior Level Laboratory Courses
- Graded General and Organic Chemistry Exams

1996 – 2001

University of Connecticut, Storrs, CT

NMR Spectroscopist

User/Maintainer of UCONN's Dept. of Chemistry's Two NMR Spectrometers (Bruker AC270, Bruker DRX400), which Required:

- Full Instrument Maintenance
- Solving Hardware and Software Problems
- Performed Experiments and Structure Elucidation

1988 – 1989 American Agricultural College, Thessaloniki, Greece

Research Assistant

Researched on Food and Wine Quality Control

PUBLICATIONS

- Melough, M.M., Lee, S.G., Cho, E., Kim, K., **Provatas, A.A**, Perkins, C., Park, M.K., Qureshi, A., Chun, O.K. 2017. Identification and quantitation of furocoumarins in popularly consumed foods in the U.S. using QuEChERS extraction coupled with UPLC-MS/MS analysis. *J. Agric. Food Chem.*, 65 (24), 5049-5055.

- **Provatas, A.A.**, Stuart, J.D., Perkins, C.R. 2017. Quantification of polybrominated diphenyl ethers in avian dried blood spots by Gas Chromatography-Tandem Mass Spectrometry coupled with simple sample preparation. *LCGC North America*, 35 (9), 688–692.
- **Provatas, A.A.**, Epling, G.A., Stuart, J.D., Jiang, S.X., Rachel, M., Trotman, R.M., Omari, E.O. 2017. Approaches to a “green” removal of a photocleavable benzyl ether protecting group under ultraviolet light irradiation for the alcohol functionality. *Current Green Chemistry*, Submitted and under review.
- Pedro, S., Boba, C., Dietz, R., Sonne, C., Rosing-Asvid, A., Hansen, M., **Provatas, A.A.**, McKinney, M.A. 2017. Blubber-depth distribution and bioaccumulation of PCBs and organochlorine pesticides in Arctic-invading killer whales. *Science of the Total Environment*, 601, 237-246.
- **Provatas, A.A.**, King, C.A., Kolakowski, S.L., Stuart, J.D., Perkins, C.R. 2017. Quantification of polycyclic aromatic hydrocarbons in avian dried blood spots by High-Performance Liquid Chromatography with simple liquid extraction and phospholipid solid-phase extraction preparation. *Analytical Letters*, 50 (16), 2649–2660.
- Stuart, J.D., and **Provatas, A.A.** 2017. A miniature static headspace-GC method for the analysis of methanol in biodiesel. *LCGC, The Column*, volume 13, Issue 7, 15-18.
- Melough, M.M., Vance, T.M., Lee, S.G., **Provatas, A.A.**, Perkins, C., Qureshi, A., Cho, E., Chun, O.K. 2017. Furocoumarin kinetics in plasma and urine of healthy adults following consumption of grapefruit (*Citrus paradisi* Macf.) and grapefruit juice. *J. Agric. Food Chem.*, 65 (14), 3006–3012.
- **Provatas, A.A.**, Kolakowski, S.L., Bodhipaksha, L.C., Bell, A.S., Stuart, J.D., Perkins, C.R.. 2016. Rapid analysis of glyphosate and its degradation products in surface water using UPLC-MS in selected ion recording mode. *International Labmate, Chromatography Feature Article*, April 2016.
- **Provatas, A.A.**, Yeudakimau, A.V., Guerrero, E., Gatley, E., Stuart, J.D., Perkins, C.R., Wake, A. 2016. Development of a simple and rapid sample preparation method for the detection and quantitative analysis of algal toxins in surface water. *International Envirotech*, March/April 2016.
- **Provatas, A.A.**, Epling, G.A., Stuart, J.D. 2016. Synthesis and photocleavage of quinoline methyl ethers: a mild and efficient method for the selective protection and deprotection of the alcohol functionality. *Aust. J. Chem.*, (69) 763-769.
- Lee, S. G., Kim, K., Vance, T.V., Perkins, R.C., **Provatas, A.A.**, Wu, S., Qureshi, A., Cho, E., Chun, K.O.. 2016. Development of a comprehensive analytical method

for furanocoumarins in grapefruit and their metabolites in plasma and urine using UPLC-MS/MS: a preliminary study. *International Journal of Food Sciences and Nutrition*, (67), 8, 881–887.

- **Provatas, A.A.**, Yeudakimau, A.V., King, C.A., Gatley, E.L., Stuart, J.D., Evers, D.C., Perkins, C.R. 2015. Rapid QuEChERS extraction with novel phospholipid cleanup: a streamlined UHPLC-UV approach for screening PAHs in avian blood cells and plasma. *Journal of Separation Science*, (38) 2677-2683.
- **Provatas, A.A.**, Stuart, J.D., Perkins, C.R. 2015. Analysis of selected algal toxins in surface water samples by direct evaporation and UPLC-MS/MS analysis. *Genevac Application Note*.
- Glinka, C.O., Frasca Jr, S., **Provatas, A.A.**, Lama, T., DeGuise, S., Bosker, T. 2015. The effects of model androgen 5 α -dihydrotestosterone on mummichog (*Fundulus heteroclitus*) reproduction under different salinities. *Aquatic Toxicology*, (165) 266-276.
- Camire, C., **Provatas, A.A.**, Stuart, J.D. 2015. Assessing the kinetics (consumption) of various antioxidants in unstable biodiesel made from both canola (rapeseed) and soybean oils. *Current Topics in Analytical Chemistry*, (10) 1-13.
- **Provatas, A.A.**, Yeudakimau, A.V., Gatley, E.L., Guerrero, E.R, Stuart, J.D., Perkins, C.R. 2014. Rapid screening and quantitative determination of selected algal toxins in surface water samples by direct evaporation and UPLC-MS/MS analysis. *Trends in Chromatography*, (9) 29-37.
- **Provatas, A.A.**, Epling, G.A., Stuart, J.D., Yeudakimau, A.V. 2015. Regioselective dye-induced photocleavage of epoxides as an alternative mild synthetic route to a targeted alcohol functionality. *Aust. J. Chem.*, 68:3, 500-504.
- **Provatas, A.A.**, Epling, G.A., Stuart, J.D., Yeudakimau, A.V.. 2014. Selective photoreduction of acetonitrile to acetaldehyde in dilute aqueous solutions. *Toxicological and Environmental Chemistry*, 96:3, 353-361.
- Pratt, L., Pinnock, T., Amoa, K., Akther, K., Domond, J., Gordon, R., Loriston, K., Strothers, J., Toney, A., Rizvi, H., Gunasekaran, M., Noshadi, I., Parnas, R., **Provatas, A.A.** 2014. Beneficial Use of Brown Grease-A green Source of Petroleum-Derived Hydrocarbons. *Journal of the NEWEA*, 48: 44-53
- Noshadi, I., Kanjilal, B., Du, X, Bollas, G.M., Suib, S., **Provatas, A.A.**, Liu, F., Parnas, R.S. 2014. Catalyzed production of biodiesel and bio-chemicals from brown grease using Ionic Liquid functionalized ordered mesoporous polymer. *Applied Energy*, (129) 112-122

- **Provatas, A.A.**, Yeudakimau, A.V., Stuart, J.D., Perkins, C.R. 2014. Rapid QuEChERS extraction followed by a novel phospholipid SPE sample purification for the analysis of selected insecticides in lobster and shellfish tissues using Gas Chromatography Tandem Mass spectrometry. *Analytical Letters*, 47:14, 2461-2474.
- Yeudakimau, A.V., Perkins, C.R., Guerrero, G.M., Stuart, J.D., **Provatas, A.A.** 2014. QuEChERS Sample preparation followed by Ultra-Performance Liquid Chromatography - Tandem Mass spectrometry for rapid screening of Diocetyl Sulfosuccinate Sodium salt in avian egg tissue. *Intern. J. Environ. Anal. Chem.*, 94:12, 1183-1198.
- **Provatas, A.A.**, Yeudakimau, A.V., Perkins, C.R., Stuart, J.D. 2013. Rapid sample preparation for determination of PAHs in wild-caught avian eggs utilizing QuEChERS extraction and Ostro 96-Well Plate cleanup followed by UPLC-UV analysis. *Waters Application Note*.
- Yeudakimau, A.V., **Provatas, A.A.**, Perkins, C.R., Stuart, J.D. 2013. Solid phase extraction and QuEChERS sample preparation methods for rapid screening of polycyclic aromatic hydrocarbons in avian blood and egg tissue by UPLC-UV. *Analytical Letters*, 46:6, 999-1011.
- Jin, L., Zhang, Y., Dombrowski, J.P., Chen, C.H., **Provatas, A.A.**, Xu, L., Perkins, C.R., Suib, S.L. 2011. "ZnO/La₂O₂CO₃ layered composite: A new heterogeneous catalyst for the efficient ultra-fast microwave biofuel production". *Applied Catalysis, B: Environmental*, Volume 103, Issue 1-2, Pages 200-205.
- Epling, G.A. and **Provatas, A.A.**. "Approaches to a photocleavable protecting group for alcohols." *Chem. Commun.*, 2002, 10, 1036-1037

PRESENTATIONS

- Kolakowski, S.L., **Provatas, A.A.**, Stuart, J.D. 2017. Rapid extraction of polycyclic aromatic hydrocarbons from avian red blood cells and plasma and subsequent analysis by UPLC-UV. *ACS-CVS Undergraduate Research Symposium, Storrs, CT*.
- Omari, E.O., **Provatas, A.A.**, Stuart, J.D. 2017. The future of environmental analysis utilizing exposomics to assess the effects of environmental stressors on the biota and human health. *ACS-CVS Undergraduate Research Symposium, Storrs, CT*.
- Trotman, R.M., **Provatas, A.A.**, Stuart, J.D., Perkins, C.R. 2016. Rapid detection and quantitative analysis of algal toxins in surface water using Ultra Performance Liquid Chromatography coupled with Tandem Mass spectrometry. *16th Annual Csaba Horvath Memorial Award Symposium, Connecticut Separation Science Council, Orange, CT*.

- Jiang, S., **Provatas, A.A.**, Stuart, J.D., Perkins, C.R. 2016. Extraction and quantification of polycyclic aromatic hydrocarbons in avian feathers utilizing Accelerated Solvent Extraction and UPLC/UV detection. *16th Annual Csaba Horvath Memorial Award Symposium, Connecticut Separation Science Council, Orange, CT.*
- Student Award Winning Poster with a \$500 Prize to Kolakowski, S.L., **Provatas, A.A.**, Stuart, J.D. and Perkins, C.R. 2016. Direct analysis of glyphosate and its degradation products in surface water without derivatization using UPLC-MS in selected ion recording mode. *16th Annual Csaba Horvath Memorial Award Symposium, Connecticut Separation Science Council, Orange, CT.*
- Kolakowski, S.L., **Provatas, A.A.**, Stuart, J.D., Perkins, C.R. 2016. Rapid extraction of polycyclic aromatic hydrocarbons from avian red blood cells and plasma and subsequent analysis by UPLC-UV. *Eastern Analytical Symposium, Somerset, N.J.*
- Omari, E.O., **Provatas, A.A.**, Stuart, J.D., Perkins, C.R. 2016. The future of environmental analysis utilizing exposomics to assess the effects of environmental stressors on the biota and human health. *Eastern Analytical Symposium, Somerset, N.J.*
- Jiang, S., **Provatas, A.A.**, Stuart, J.D., Perkins, C.R. 2016. Quick extraction and quantification of polychlorinated biphenyls and organochlorine pesticides in dry bloodspots on protein saver cards using GC-MS-MS. *Eastern Analytical Symposium, Somerset, N.J.*
- **Provatas, A.A.**, Buch, N.N., Kolakowski, S.L., Stuart, J.D., Perkins, C.R. 2015. Simultaneous direct analysis of glyphosate and aminomethylphosphonic Acid in surface water using UPLC-MS in selected ion recording mode. *Eastern Analytical Symposium, Somerset, N.J.*
- **Provatas, A.A.**, King, C.A., Yevdokimov, A.V., Stuart, J.D., Perkins, C.R. 2015. Extraction and quantification of polycyclic aromatic hydrocarbons in dried bloodspots on FTA cards by UPLC-UV. *Eastern Analytical Symposium, Somerset, N.J.*
- Camire, C., Stuart, J.D., **Provatas, A.A.** 2014. An investigation of biodiesel stability: a study for the behavior of antioxidants in soybean and canola derived biodiesel. *Eastern Analytical Symposium, Somerset, N.J.*
- **Provatas, A. A.**, Gatley, E.L., Omari, E.O., Yeudakimau, A.V., Stuart, J.D., Perkins, C.R. 2014. Accelerated solvent extraction and in-cell sample clean-up of marine sediment for the analysis of persistent organic pollutants by GC-MS/MS. *Eastern Analytical Symposium, Somerset, N.J.*

- **Provatas, A.A.**, Gatley, E.L., Omari, E.O., Yeudakimau, A.V., Stuart, J.D., Perkins, C.R. 2014. "Accelerated solvent extraction and in-cell sample clean-up of marine sediment for the analysis of persistent organic pollutants by GC-MS/MS", *The 12th Csaba Horvath Medal Award Symposium, Connecticut Separation Sciences Council, Orange, CT.*
- **Provatas, A.A.**, Yeudakimau, A.V., Guerrero, G.R., Perkins, C.R., Stuart, J.D. 2013. UPLC-UV analysis of PAHs in avian egg samples collected after the crude oil spill in the Gulf of Mexico with rapid QuEChERS extraction and novel 96-well phospholipid cleanup. *Eastern Analytical Symposium, Somerset, N.J.*
- **Provatas, A.A.**, Guerrero, E.R., Ali, S.U., Yeudakimau, A.V., Stuart, J.D., Perkins, C.R. 2013. High throughput analysis of microcystins in water utilizing simple sample preparation followed by UPLC Tandem Mass Spectrometry. *Eastern Analytical Symposium, Somerset, N.J.*
- Yeudakimau, A.V., **Provatas, A.A.**, Gallos, B.M., Perkins, C.R., Stuart, J.D. 2013. Rapid quantification of DOSS oil dispersant in white pelican bill knobs inhabiting the shores of the Gulf of Mexico using QuEChERS extraction and UPLC-MS/MS analysis. *Oral Presentation, Eastern Analytical Symposium, Somerset, N.J.*
- Stuart, J.D., Impellizeri, J.S., Morrin, R.D., **Provatas, A.A.**, Perkins, C.R. 2013. A regional academic biodiesel testing laboratory following ASTM methods. *Eastern Analytical Symposium, Somerset, N.J.*
- Pratt, L.M., Murgan, L.C., Smith, R.D., Toney, A.L., Pinnock, T., Parnas, R., **Provatas, A.A.** 2013. Urban sources of waste for conversion to fuels. *15th Asian Chemical Congress, Singapore*
- Stevens, D.M., Stuart, J.D., **Provatas, A.A.** 2012. Accurate mass GC/MS for the identification of unknowns in biodiesel. *Eastern Analytical Symposium, Somerset, N.J.,*
- Yeudakimau, A.V., **Provatas, A.A.**, Perkins, C.R., Stuart, J.D. 2012. Rapid quantification of dioctyl sulfosuccinate sodium salt (DOSS) in birds egg tissue utilizing QuEChERS extraction method and UHPLC-MS/MS multiple reaction monitoring (MRM). *Eastern Analytical Symposium, Somerset, N.J.*
- **Provatas, A.A.**, Yeudakimau, A.V., Perkins, C.R., Seiss, J.E., Stuart, J.D. 2012. Liquid-Liquid extraction and SPE clean-up followed by UPLC –UV analysis of polycyclic aromatic hydrocarbons from blood samples taken from birds impacted by the Deepwater Horizon oil spill. *Eastern Analytical Symposium, Somerset, N.J.*

- Stevens, D.M., Stuart, J.D., **Provatas, A.A.** 2012. Structural elucidation of unknowns in biodiesel using accurate mass GC/MS and LC/MS. *CoSMoS Annual Conference 2012, Providence, R.I.*
- Rosnack, K., Journier, J.M., Stevens, D.M., Stuart, J.D., **Provatas, A.A.** 2012. High resolution GC/MS for the identification of unknown compounds in biodiesel. *ISCC 2012, Riva del Garda, Italy*
- Stevens, D.M., Stuart, J.D., **Provatas, A.A.**, Hsu, C.S., Lu, J. 2012. Combining GC/MS and LC/MS QToF for characterization of unknowns in biodiesel. *60th ASMS Conference on Mass Spectrometry and Allied Topics, Vancouver, BC, Canada*
- Stevens, D.M., Hsu, C.S., Lu, J., Stuart, J.D., **Provatas, A.A.** 2012. Approaches in the comprehensive characterization of high and low abundance components of biofuels. *The National Meeting of the American Chemical Society, San Diego, Ca., March 2012*
- **Provatas, A.A.**, and Stuart, J.D. 2011. ASTM Quality Testing of Biodiesel as a Renewable Fuel from Macadamia Nut Oil Feedstock. *Eastern Analytical Symposium, Somerset, N.J.*
- Perkins, C.R., **Provatas, A.A.**, Seegar, W., Yates, M., Evers, D., Jenny, P. 2011. Analysis of PAHs 9500 from MC-252 in whole blood and RBCs from live-captured birds using ultra performance liquid chromatography (UPLC): Method development and assessment. *SETAC North America 32nd Annual Meeting in Boston, MA.*
- Perkins, C.R., Stapcinskaite, S., Stuart, J.D., **Provatas, A.A.** 2010. “Quality control of biodiesel fuel utilizing inductively coupled plasma optical emission spectrometry and energy dispersive X-ray fluorescence spectrometry”. *Eastern Analytical Symposium and Exposition, Somerset, NJ*
- Perkins, C.R., Stuart, J.D., Parnas, R.S., **Provatas, A.A.** 2010. “Analysis of biodiesel and its blends with petroleum diesel as an alternative “green” fuel according to ASTM methods”. *Eastern Analytical Symposium and Exposition, Somerset, NJ*
- Parnas, R.S., Stuart, J.D., Perkins, C.R., **Provatas, A.A.** 2010. “Quality testing of biodiesel and its blends with petroleum diesel as an alternative “green” fuel according to ASTM methodologies”. *National Meeting of the American Chemical Society, Boston, MA*
- Parnas, R.S., Stuart, J.D., Perkins, C.R., Midgette, A.A., Unker, S.A., Han, L., Clark, S.L., **Provatas, A.A.** 2010. “Biodiesel: the development and production of a

renewable “green” fuel at the University of Connecticut”. *Randolf T. Major Memorial Lecture Series at the University of Connecticut*

- Perkins, C.R., Stapcinskaite, S., Kinsella, K.Q., Stuart, J.D., **Provatas, A.A.** 2010. “Analysis of trace elements in biodiesel utilizing inductively coupled plasma optical emission spectrometry and energy dispersive X-ray fluorescence spectrometry”. *Randolf T. Major Memorial Lecture Series at the University of Connecticut*
- Perkins, C.R., Stuart, J.D., Parnas, R.S., **Provatas, A.A.**, Kinsella, K.Q., Stapcinskaite, S., Ulatowski, G., Monos, T.M. 2010. “Quality testing of biodiesel and its blends with petroleum diesel as an alternative “green” fuel according to ASTM methodologies”. *Randolf T. Major Memorial Lecture Series at the University of Connecticut*
- Stuart, J.D., **Provatas, A.A.**, Clark, S., Lu, H. 2009. “Is biodiesel a reasonable alternate energy fuel for Connecticut?”. *36th Northeast Regional Meeting of the American Chemical Society, Hartford, CT*
- Colizza, K., Domdroski, J., **Provatas, A.A.**, Vallurupalli, V., Conboy, J., Kamel, A., Kelly, M. 2008 EMS POSTER SESSION: “Ultra Performance Liquid Chromatography (UPLC) High throughput sample analysis, data process, archival and retrieval for quality control (QC) and quantitative quality control (QQC) of combinatorial libraries and assay ready plates (ARP)” *Pfizer Inc.*
- Colizza, K., Domdroski, J., Varshney, N., Zuzel, T., Vallurupalli, V., **Provatas, A.A.**, Kelly, M., Conboy, J., Kamel, A. 2008. “High throughput sample analysis for identification and quantitative assessment of library screening using Ultra-High Performance Liquid Chromatography/Ultra Violet/Evaporative Light Scattering detector coupled to time of flight Mass Spectrometry(UHPLC/UV/ELSD/TOFMS)”. *The 1st International Conference on Drug Design and Discovery, Dubai, UAE.*
- Poster Presentation. Corr, R.J., Falcone, N.S., **Provatas, A.A.**, Hester, M.R., Capetta, S.H. 2006. EMS Poster Session: “ASAR, What we can do for you”, *Pfizer Inc.*
- Poster Presentation. Corr, R.J., Falcone, N.S., **Provatas, A.A.**, Hester, M.R., Oscarson, J. 2006. CNS Hit-To-Lead Chemistry, *Pfizer Inc.*
- Poster Presentation. Corr, R.J., Falcone, N.S., **Provatas, A.A.**, Hester, M.R., Oscarson, J. 2004. Exploratory medicinal sciences poster session: “Library synthesis and purification for PYK2 CLD using the HSS platform” *Pfizer Inc.*

- Poster Presentation. **Provatas, A.A.** 2001. *2001 Chemistry Forum, Pfizer Inc.*
- Stuart, J.D., **Provatas, A.A.**, Palaniswamy, U. 2002. “Solid phase extraction followed by reversed-phase HPLC and LC/MS/MS of sulforaphane in broccoli”. *Pittsburgh Conference, Pittcon 2002*
- Neddermann, S.K., Stuart, J.D., **Provatas, A.A.**, Smith, A.T., Palaniswamy, U. 2001. “Identification of sulforaphane from broccoli sprouts by reversed-phase HPLC and HPLC/MS/MS analysis”. *The Connecticut Valley Section of the American Chemical Society Undergraduate Research Symposium*
- Stuart, J. D., Neddermann, S.K., **Provatas, A.A.**, Palaniswamy, U. 2001. “Isolation of sulforaphane from broccoli sprouts by reversed-phase extraction, HPLC and LC/MS/MS”. *30th ACS Northeast Regional Meeting*
- Stuart, J. D., Neddermann, S.K., Smith, A.T., **Provatas, A.A.**, Palaniswamy, U. 2001. “Isolation of sulforaphane in broccoli sprouts, by reversed-phase solid phase extraction (SPE), followed by reversed-phase HPLC and HPLC/MS analysis”. *The American Society for Horticultural Science 98th Annual International Conference and Exhibition*
- Epling, G.A. and **Provatas, A.A.** 2000. “Approaches to a photocleavable protecting group for alcohols”. *29th ACS Northeast Regional Meeting*
- **Provatas, A.A.** 2000. “Degradation of acetonitrile wastes in dilute solutions: an interesting solar method of detoxification”. *Seminar at the Dept. of Chemistry, University of Connecticut*
- Epling, G.A. and **Provatas, A.A.** 1998. “Approaches to a practical photocleavable protecting group for the alcohol functionality”. *Randolf T. Major Memorial Lecture Series at the University of Connecticut*

REVIEWS FOR INTERNATIONAL JOURNALS

- Analytical Chemistry
- Journal of Chromatography A
- Analytical Letters
- Current Analytical Chemistry

RESEARCH GRANTS AND CONTRACTS

- Principal Investigators: Perkins, C., **Provatas A.A.**
 Agency Name: USGS
 Project Title: Sea Turtle Egg Homogenization and Compositing

- Total Amount: \$23,845 (2017)
- Principal Investigators: Willig, M., Perkins, C., **Provatas, A.A.**
 Agency Name: State of Minnesota
 Project Title: An Assessment of PAHs and Corexit Contamination in the Fatty Tissues and Blood of Birds Nesting in Minnesota
 Total Amount: \$112,150 Supplement to Continuing Project (2015-2017)
- Principal Investigators: Perkins, C., **Provatas, A.A.**, Willig, M.
 Agency Name: State of Minnesota
 Project Title: An Assessment of PAHs and Corexit Contamination of Birds Nesting in Minnesota
 Total Amount: \$67,000 (2015-2017)
- Principal Investigators: Willig, M., Perkins, C., **Provatas, A.A.**
 Agency Name: State of Minnesota
 Project Title: An Assessment of PAHs and Corexit Contamination in the Fatty Tissues and Blood of Birds Nesting in Minnesota
 Total Amount: \$46,150 Supplement to Continuing Project (2014)
- Principal Investigators: Willig, M., Perkins, C., **Provatas, A.A.**
 Agency Name: CT DEEP
 Project Title: Investigating the Presence of Pesticides in American Lobster from Long Island Sound
 Total Amount: \$130,000 (2014-2015)
- Principal Investigators: Perkins, C., **Provatas, A.A.**, Willig, M.
 Agency Name: CT DEEP
 Project Title: Development and Validation of a Statewide Cyanobacterial Toxin Monitoring Program
 Awarded Amount: \$50,000 (2013)
- Principal Investigators: Perkins, C., **Provatas, A.A.**
 Agency Name: Delos Living, LLC
 Project Title: Verification and Validation of the Vitamin-C Infuser Product
 Awarded Amount: \$8,481 (2013)
- Principal Investigators: Perkins, C., **Provatas, A.A.**, Stuart, J.D.
 Agency Name: U.S. Coast Guard
 Project Title: U.S. Coast Guard Biodiesel Pilot Program Validation Study
 Awarded Amount: \$6,276 (2012)

- Principal Investigators: Perkins, C., De Guise, S., Levin, M., **Provatas, A.A.**
 Agency Name: USGS
 Project Title: Sea Turtle Immunology and Analytical Chemistry
 Awarded Amount: \$170,000 (2012)
- Principal Investigators: Willig, M., Perkins, C., **Provatas, A.A.**
 Agency Name: State of Minnesota
 Project Title: An Assessment of PAHs and Corexit Contamination in the Fatty Tissues and Blood of Birds Nesting in Minnesota
 Awarded Amount: \$66,000 (2012)
- Principal Investigators: Perkins, C., **Provatas, A.A.**
 Agency Name: USGS
 Project Title: Analysis of PAHs and Corexit in Tissues of the Common Loon (*Gavia immer*)
 Awarded Amount: \$6,000 (2012)
- Principle Investigators: Willig, M., Perkins, C., **Provatas, A.A.**
 Agency Name: State of Minnesota
 Project Title: An Assessment of PAHs and Corexit Contamination in the Fatty Tissues and Blood of Birds Nesting in Minnesota
 Awarded Amount: \$66,000 (2011)
- Principle Investigators: Willig, M., Perkins, C., **Provatas, A.A.**
 Agency Name: USGS
 Project Title: Analysis of the Common Loon for Corexit and PAHs
 Awarded Amount: \$6,000 (2011)
- Principle Investigators: Willig, M., Perkins, C., **Provatas, A.A.**
 Agency Name: Agrifuels, LLC
 Project Title: ASTM Biofuels Testing Laboratory
 Awarded Amount: \$30,000 (2011)
- Principle Investigators: Willig, M., Perkins, C., **Provatas, A.A.**
 Agency Name: Purification Technologies, Inc.
 Project Title: Acetonitrile Testing and Characterization
 Awarded Amount: \$12,500 (2010)
- Principle Investigators: Parnas, R.S., Stuart, J.D., Perkins, C.R., **Provatas, A.A.**
 Agency Name: University of Connecticut Faculty Large Grant Program
 Project Title: Preparation for DOE Biofuels Grant Through Enhanced Biofuels Testing Capability
 Awarded Amount: \$16,957 (2010)

TRAINING

- Attended Waters Training Course: “Acquity UPLC System Maintenance” at Milford, MA (3/20/08)
- Attended Waters Seminar: “Ultra Performance LC - Exploring the Principles and Practical Applications in Laboratories Today” at Milford, MA (3/20/07)
- Attended Waters Training course: Operation & Maintenance of the ZQ LC/MS w/MassLynx Software (12/12 – 12/14/06)
- Computational Chemistry Course Series: PGVL Hub Training (12/11/06)
- Nominated and Attended Pfizer’s Drug Design Workshop at Greenwich, RI (5/15-5/18/06)
- Attended Waters Preparative Liquid Chromatography Course at Milford, Mass (5/4/06)
- Attended CELEBRATING DIVERSITY “Walking in their shoes” ILT Course (4/26/06)
- Attended Waters LCT Training at Beverly, Mass (3/30-4/3/03)
- Attended TECAN Training at Research Triangle Park, NC (2/5-2/7/02)

INSTRUMENTATION

TECAN Automation, Genevac, Bohdan Automation, UPLC, HPLC, LC/MS, LC/TOFMS, GC/MS, LC/ESI/APCI/MS/MS, GC/MS/MS, LCT, ZQ, ZMD, FT-IR, UV-VIS, NMR, TLC, Solid Phase Extraction (SPE), Column Chromatography, Flash 40, Chromatotron, Biotage Microwave Reactor

COMPUTER SKILLS

Analytical ToolKit, Pipeline Pilot, Isis, Ariba, Polaris, MatTrak, NuGenesis, MassLynx, FractionLynx, QuanLynx, TargetLynx, Empower, CCQA, RGate, Guardian, TECAN Software (Gemini and Pegasus), Genevac Software, Bohdan Software, XWINMR, UNIX, ChemDraw, MS Office.

AWARDS

- Pfizer Individual Performance Award (nominated by Dr. G. Schulte), September 2007
- Pfizer Individual Performance Award (nominated by Dr. S. Goldstein), August 2007
- Pfizer Discovery Recognition “Above and Beyond” Award, August 2004
- The 1998 Award for Excellence in Teaching Organic Chemistry at the University of Connecticut, Dept. of Chemistry, Storrs, CT

AFFILIATIONS

- American Association of University Professors
- American Chemical Society
- Connecticut Separation Science Council
- Phi Lambda Upsilon, Honorary Chemical Society

INTERESTS AND ACTIVITIES

- Co-organizer of the Seventh Connecticut Separation Science Council's Csaba Horváth Medal Award Symposium (19-20 April, 2007)
- Elected Director (2005-2007) on the Board of Directors of the Connecticut Separation Science Council
- Hiking
- Beekeeping