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PROFESSIONAL SUMMARY

Organized and creative science professional using proven skills in microbiology, antimicrobial technology, research, project management, product development, industry and government alliances. Available to respond to the needs of the antimicrobial industry and related disciplines. Qualified by over eighteen years of comprehensive experience in the antimicrobial, biotechnology, healthcare, and pharmaceutical industries.

Areas of Expertise:

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| ◆ Antimicrobial Test Methodology | ◆ Microbiology |
| ◆ Scientific Research | ◆ Product/Method Development |
| ◆ Regulatory Affairs/Compliance | ◆ Good Laboratory Practices (GLP) |
| ◆ Technical Writing | ◆ Good Manufacturing Practices |
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PROFESSIONAL EXPERIENCE

SCIENTIFIC & REGULATORY CONSULTANTS, INC., Columbia City, IN 1996-Present

Consultant, (President/Co-Owner)

Responsible for antimicrobial test method design, testing strategy, placement and management of studies; technical writing and speaking; product development; technical support and training for sales, marketing, regulatory affairs, quality control, and manufacturing; and facility auditing for compliance with GLP and GMP.

- Moderated and presented Annual EPA Antimicrobial Division Workshops, 2005, 2003, 2001.
- Invited participant and presenter at the Society for Industrial Microbiology seminar "Biofilms 2005", April 2005.
- AOAC International Committee H Expert Review Panel, 2004 to present.
- AOAC Round Table for Official Methods of analysis Chapter 6 Disinfectants, 2005 to present.
- Consumer Specialty Products Association, Antimicrobial Board of Directors, 2004 to current.
- American Journal of Infection Control Reviewer, 2005 to present.

- Invited Faculty for the America Society of Microbiology Workshop “In Vitro and In Vivo Test Methods Used to Assess the Efficacy of Topical Antimicrobial Products, 2005, 2004, 2003, 2002.
- Invited participant and presenter at The American Bar Association Committee on Pesticides, Chemical Regulations, and Right-To-Know “Antimicrobial Pesticides – Regulation of Innovative and Unique Products”, May 2004.
- Co-authored Soap and Detergent Association (SDA) and Cosmetic, Toiletry, and Fragrance Association (CTFA) responses to FDA OTC TFM for Healthcare Antiseptic Drug Products 1995-current.
- Industry Chair for EPA/Industry Anthrax Technical Work Group, 2002.
- Invited participant and presenter at EPA/OECD Efficacy Workshop initiative to achieve global harmonization standards and methods, 2002.
- Consumer Specialty Products Association, Antimicrobial Division, Program Committee Chairperson, 1997 to present.
 - “Antimicrobial & Pesticide Regulatory Update”, CSPA Mid-Year Meeting 2008
 - “The Antimicrobial Industry: Benefits and Challenges”, CSPA Annual Meeting 2007
 - “Nanotechnology: Emerging Innovation and Scientific Challenge”, CSPA Annual Meeting 2006
 - “Disaster Response”. CSPA Mid-Year Meeting 2006
 - “Global Regulatory Initiatives”. CSPA Annual Meeting 2005.
 - “Green Chemistry and Sustainable Development”. CSPA Mid-Year Meeting 2005.
 - “Mold Remediation & Cleaning Strategies”. CSPA Annual Meeting 2004.
 - “The Dirt on the Hygiene Hypothesis”. CSPA Mid-Year Meeting, 2004.
 - “Homeland Security”. CSPA Annual Meeting 2003.
 - “Wanted Dead or Alive: New Test Methods for Spores, TB, Bacteria, and Viruses”, CSPA Mid-Year Meeting, 2003.
 - “Antimicrobial Technology: What’s in our future?” CSPA Annual Meeting 2002.
 - “The Role of Antimicrobial and Pest Management Products in Response to Bioterrorism and Disasters”: CSPA Mid-Year Meeting, 2002.
 - “The Art of Communications”: CSPA Annual Meeting, 2001.
 - “The European Biocidal Products Directive”: CSPA Mid-Year Meeting, 2001.
 - “Pesticides and Antimicrobials: Policy & Public Health”: CSPA Annual Meeting, 2000.
 - “Standards of Efficacy Around the World”: CSPA Mid-Year Meeting, 2000.
- Active participant in ASTM E35.15 method development.
 - Jones, R. ASTM: E2315-03 Standard Guide for Assessment of Antimicrobial Activity using a Time-Kill procedure, 2003.
 - Jones, R. American Society of Testing and Materials: E1174-00 Standard Test Method for Evaluation of Health Care Personnel and Consumer Handwash Formulation. Annual Book of Standards, Vol. 11.05.
 - Czechowski, M., Jones, R. ASTM E1427-00 Standard Guide for Selecting Test Methods to Determine the Effectiveness of Antimicrobial Agents and Other Chemicals for the Prevention, Inactivation and Removal of Biofilm. Annual Book of Standards, Vol. 11.05.

HUNTINGTON LABORATORIES, INC., Huntington, IN

1991-1996

Microbiology Manager

Managed a quality control, research and development Microbiology Department. Responsible for test method design, product development, technical support to sales, marketing, regulatory affairs, and manufacturing, author/review sales literature, extensive participation in industry association and laboratory compliance with GMP, GCP, and GLP regulations.

- Coordinated contract laboratory ventures including design of studies, protocols, and reports, audits, problem solving, and administration of a \$1.8 million dollar request budget with a \$500k operating budget in 1995.
- Served as Study Monitor for 50 contract studies and Study Director for 83 internal studies in 1995.
- Co-authored The Soap and Detergent Association and Cosmetic, Toiletry, and Fragrance Association's responses to a proposed FDA Monograph. Sole author of corporate responses.
- Participated in the Canadian General Standards Board revision of the Canadian regulations, which established the effectiveness requirements for regulated products.
- Participated in the Consumer Specialty Products Association development and implementation of the Council for Antimicrobial Quality Laboratory Accreditation Program. Prepared Huntington Laboratories for accreditation, which was awarded in 1994.
- Designed studies to create unique effectiveness claims for healthcare products.
- Chaired corporate interdepartmental teams to develop and commercialize new products; to improve customer satisfaction; and for long range strategic planning.

PURDUE CANCER CENTER, PURDUE UNIVERSITY, West Lafayette, IN

1989-1990

Laboratory Director

Managed a contract Cell Culture Facility and National Cancer Institute new drug-screening program. Responsible for the production of monoclonal antibodies, supervision of technical projects, budget, monthly billing, grant/technical writing, and staff/facility management, internal sales, and marketing.

- Implemented new fee structure, marketing and billing programs, which resulted in a balanced budget.
- Implemented and preformed custom monoclonal antibody production service including the design and setup of a new laboratory, resulting in a 30% increase in revenue.

AMERICAN MONITOR CORPORATION, Indianapolis, IN

1986-1989

Laboratory Manager

Supervised laboratory staff, animal antibody production facilities, multiple grants, and budget, responsible for Nuclear Regulatory Commission and USDA facility audits.

- Co-developed 16 "In-vitro" Diagnostic Immunoassays for drugs-of-abuse and therapeutic drugs.
- Established and Chaired Animal Welfare Committee.
- Co-authored and managed multiple product development grants totaling \$2 million.

INDIANA UNIVERSITY MEDICAL CENTER, Indianapolis, IN

1985-1986

Senior Research Technician

Responsible for production of cell lines for clinical diagnosis of *Chlamydia*, conduct of multiple types of immunoassays, microscopy, mass production of bacterial reagents for test methods, handling, diagnosis, and reporting of infectious clinical specimens. Conducted research on the epidemiology of *Chlamydia trachomatis*. Monitored dual field trials of new instrumentation to diagnose *Neisseria gonorrhoea*.

EDUCATION

- Bachelor of Science in Microbiology, Indiana University, Bloomington, IN 1985
- Master's Degree in Biology, 13 hours completed, Butler University, Indianapolis, IN 1986-1988
- Laboratory Animal Technician Certification American Assoc. for Laboratory Animal Sciences 1990
- Registered Microbiologist, Consumer Products and Quality Assurance Microbiology, National Registry of Microbiologist, 1992.

PROFESSIONAL AFFILIATIONS

- American Practitioners of Infection Control (APIC)
- American Society of Microbiology (ASM)
- American Society of Testing and Materials (ASTM)
 - Award of Appreciation; Committee E-35 on Pesticides; April 1998 and April 2001
- British Association for Chemical Specialties (BACS)
- Chemical Specialty Products Association (CSPA)
 - Volunteer Recognition Award, December 2007
- Cosmetic Toiletries Fragrance Association (CTFA)
- International Association for Food Protection (IAFP)
- International Sanitary Supply Association (ISSA)
- Society of Quality Assurance (SQA)

PROFESSIONAL DEVELOPMENT**The Environmental Protection Agency**

EPA/CSPA Stakeholder Meetings on Efficacy 810 Guidelines, January 2006; July 2006

EPA/CSPA Stakeholder Meeting – Microbiology January, July, October 2006; January 2005; March, July, October 2004.

EPA/Industry Anthrax Technical Workgroup, Industry Chair, June 2002.

Interagency Working Group – Anthrax Decontamination, October 2002.

EPA/OECD Efficacy Harmonization Workshop, 2002

National Meeting on the Regulation of Antimicrobial Pesticide Workshops (1997, 1998, 1999, 2000, 2001, 2003)

Scientific Advisory Panel Meeting, 1997

The Food & Drug Administration

FDA NDAC Meeting-Consumer Antiseptics, October 2005.

FDA NACC Meeting-Healthcare Antiseptic, March 2005.

FDA OTC Stakeholders Meeting on Efficacy Requirements for Topical Antimicrobial Skincare Products, 2000.

FDA OTC Stakeholders Meeting on Hand Sanitizers, 1999.

Non-Prescription Drugs Committee Meeting: Effectiveness Testing for Final Antimicrobial Skincare Formulas, 1998

Joint Meeting of Non-Prescription and Anti-Infective Drugs Advisory Committee Meeting: 1997 – Bacterial Resistance.

Consumer Specialty Products Association

Antimicrobial Division Program & Publicity Chair, 1997-current.

Eighth Antimicrobial Workshop, May 2007.

Seventh Antimicrobial Workshop, November 2005.

	AOCS/CSPA New Horizons “Changing Strategies in Changing Times”, September 2004.
	CSPA Antimicrobial Regulatory Committee Stakeholder Meeting with EPA, July 2004; March 2007.
	CSPA Antimicrobial Efficacy Group Meeting and Tour of EPA BEAD Lab, February 2003.
	Good Laboratory Practices Seminar – “Managing Current Compliance Issues”, 1998
	Good Laboratory Practices Seminar – “Professional Enhancement for a Regulated Community”, 1998
Canadian Consumer Specialty Products Association (CCSPA)	CCSPA/TPD Education Forum on Registration of Disinfectants and Sanitizers, November 2003.
Clinical Device Group, Inc.	The Successful 510(k), June 2007. The Successful 510(k), June 2005.
Cosmetic, Toiletry, and Fragrance Association (CTFA)	CTFA Web Training “FDA Inspection of OTC Drug & Cosmetic Facilities: Your Rights & Obligations”, May 2007. CTFA Quality Assurance Committee 2003 Workshop, September 2003. Quality Assurance and GMPs for Companies that Make Cosmetics and OTC Drugs – A Hands-On and How-To Workshop, September 2003.
FDC Services LLC	CGMP/QSR Training Program, June 2008
Quality Is Learned	Current Good Manufacturing Practice Regulations; 21 CFR Parts 210 & 211, February 2006
Institute of Validation Technology (IVT)	Good Manufacturing Practice, Validation and Change Control: A Bird’s Eye View of the Principles Involved, August 2006.
International Center for Health & Education	Good Laboratory Practices for Study Directors, 1998.
Target Research Associates (Dr. Robert McCormack)	The Mechanics of Preparing INDS & NDAs and FDA regulations, 1998.

APIC Indiana	Practical Statistical Analysis of Healthcare Data – “Giving Meaning to Numbers”
Indiana Medical Device Manufacturer’s Council, Inc.	How to Develop a Policy and Procedures for Managing FDA Inspections. The FDA 510k Process. Prepare Your Quality System/Audit Program to Withstand FDA GMP’s, EC Medical Device Directive, and International Regulation.
National Institute of Health	Development of Topical Microbicides: Bactericides and Virucides. American Journal of Infection Control Manuscript Reviewer, 2005 to present.
American Society of Microbiology (ASM)	Invited Faculty for the America Society of Microbiology Workshop “In Vitro and In Vivo Test Methods Used to Assess the Efficacy of Topical Antimicrobial Products”, June 5, 2005. Invited Faculty for the America Society of Microbiology Workshop “In Vitro and In Vivo Test Methods Used to Assess the Efficacy of Topical Antimicrobial Products”, May 2004. Invited Faculty for the America Society of Microbiology Workshop “In Vitro and In Vivo Test Methods Used to Assess the Efficacy of Topical Antimicrobial Products”, May 2003. “Disinfectant I and II” Workshop.
America Society of Testing & Materials (ASTM)	ASTM E35.15 Fall Meeting, October 2006. ASTM E35.15 Spring Meeting, April 2006. ASTM E35.15 Fall Meeting, October 2005. ASTM Post-Conference Symposium “Over-the-Counter Topicals: Assessing the need for testing and label claims against viruses”, October 2004. ASTM E35.15 Fall Meeting, October 2004.

Association of Official Analytical Chemists (AOAC)	AOAC Committee H Expert Review Panel, 2004 to present Annual Meeting, September 2005. Annual Meeting, September 2004.
Gladieux Consulting	Better Business Writing/Documentation, May 2006. Powerful Presentations Skills, August 2002. Better Business Writing, August 2002. Time Management, August 2002.
Webber Training Teleclasses	Relative Impact of Hand Hygiene on Healthcare-Associated Infections, January 2004 Current Best Practices in Hand Hygiene, October 2002 Hands and the Spread of Viral Infections, May 2002. Biofilms – A Growing Problem, April 2002.
West Coast Quality Training Institute (Pacific Rim Consulting)	Good Laboratory Practices for Technical Staff, March 2006. Quality Assurance in GLPs , September 2002. Introduction to EPA/FDA/OECD Good Laboratory Practices, September 2002.
Dan Tholen Statistical Consulting	Training in Introductory Statistics, September 2003.
American Bar Association – Committee on Pesticides, Chemical Regulations, and Right-To-Know	Antimicrobial Pesticides – Regulation of Innovative and Unique Products, May 2004.

PUBLICATIONS

Holtschlag, J., Cozad A., Jones R. Sodium Hypochlorite Preferred for Controlling the Spread of *C. difficile*. *Managing Infection Control*. 2006: 38-43.

Cozad A, Jones R. Disinfection and the prevention of infectious disease. *American Journal of Infection Control Journal*. 2003: 31:243-254.

Fishcler, George, Jones, R., Shaffer, Healthcare Continuum: A model for the classification and regulation of topical antimicrobial products, *Infection Control Today*, 2002.

Jones, R., Resistant Bacteria: What are the Facts?, *Infection Control Today*, March 2001, Vol. 5 No. 3.

Czechowski, M., Jones, R. ASTM E1427-00 Standard Guide for Selecting Test Methods to Determine the Effectiveness of Antimicrobial Agents and Other Chemicals for the Prevention, Inactivation and Removal of Biofilm. *Annual Book of Standards*, Vol. 11.05.

Jones, R., Jampani H., Newman J., Lee, A. Triclosan: A review of effectiveness and safety in health care settings. *AJIC Journal*. April 2000; 28: 184-196.

Jones, R., Jampani, H., Mulberry, G., Rizer, R. Moisturizing Alcohol Hand Gels for Surgical Hand Preparation. *AORN Journal*. March 2000; 71: 584-599.

Jampani, H., Lee, A., Newman, J., Jones, R. Formulation Technology: Providing A Positive Impact On Broad Spectrum In Vitro Antimicrobial Activity. *AJIC Journal*. February 2000: 92. Poster Session at the 4th Decennial International Conference on Nosocomial and Healthcare Associated Infections. March 5-9, 2000 in Atlanta, GA.

Jones, R. American Society of Testing and Materials: E1174 – 2000 Standard Test Method for Evaluation of Health Care Personnel and Consumer Handwash Formulation. *Annual Book of Standards*, Vol. 11.05.

Jones, R. Bacterial resistance and topical antimicrobial wash products. *APIC*, August 1999; 27: 351-363.

Rizer, R., Jampani, H., Newman, J., Jones, R. Dermatologic Safety Profile: A Unique Feature of An Alcohol Hand Gel. *SHEA Annual Meeting*. 1999.

Jampani, H., Newman, J., Jones, R. Measurement of the Effects of Washing/Rinsing on the Persistence Antimicrobial Activity of an Alcohol Hand Gel. *SHEA Annual Meeting*. 1999.

Newman, J., Jampani, H., Newman, T. Rizer, R., Jones, R. Long Lasting Moisturization: A Paradigm Shift for a New Alcohol Hand Gel. *AJIC*. 1999; 27: 208-209.

Jampani, H., Lee, A., Newman, J., Jones, R. Alcohol: Novel Antimicrobial Technology for Persistent Activity. *AJIC*. 1999; 27: 209.

PUBLICATIONS (Cont.)

Sattar, S., Jampani, H., Newman, J., Jones, R. Assessment of the Activity of an Ethanol-Containing Hand Gel Against Non-Enveloped Viruses Using the Fingerpad Method. *AJIC*. 1999; 27: 209-210.

Newman, J., Jampani, H., Lee, A., Mulberry G., Jones, R. The Significance of Neutralization in Antimicrobial Efficacy Test Methods. *AJIC*. 1999; 27: 230.

Jones, R. Selecting a Surgical Scrub Product for the Operating Room. *Infection Control Today*. 1999; 3: 38-44.

Jones, R. State of the Science: Bacterial Resistance. Antiseptics and Disinfectants benefits in reducing bacterial resistance? *Chemical Times & Trends*. 1998; 21: 36-48.

Jones, R. American Society of Testing and Materials: New Draft Standard Test Method for Evaluation of the Effects of Skin Cream/Lotion Formulations on the Antimicrobial Properties of Surgical Scrub Formulations. Submitted for ballot, 1998.

Jones, R. American Society of Testing and Materials: New Draft Standard Test Method for Evaluation of the Effects of Skin Cream/Lotion Formulations on the Antimicrobial Properties the Integrity of Latex Gloves. Submitted for ballot, 1998.

Jampani, H., Lee, A., Smith, R., and Jones, R. Quantitative Analysis of the Physical Integrity of Latex Gloves Following Treatment with Moisturizing Lotions and Creams. *AJIC*. 1998; 26: 168.

Jampani, H., Newman, J., Paulson, D., Riccardi, C., Beausoleil, C., and Jones, R. The Effects of Using a Moisturizing Lotion and Cream in Combination with a Chlorhexidine Scrub. *Association for Professionals in Infection Control and Epidemiology*. *AJIC*. 1998; 26: 185.

Lee, A., Newman, J., Rizer R.L., and Jones, R. The Effects of Topical Products on Skin Patch Reactions Elicited by Latex Glove Material. *AJIC*. 1998; 26: 175.

Jampani, H., Lee, A., Newman, J., and Jones, R. A Comprehensive Comparison of the In Vitro and In Vivo Antimicrobial Effectiveness of Triclosan, Chlorhexidine, Alcohol/Chlorhexidine, and Polaxamer Iodine Topical Formulations. *Association for Professionals In Infection Control and Epidemiology, Inc*. *AJIC*. 1998; 26: 186.

Jones, R. Antiseptic Resistance and Topical Antimicrobial Wash Products. *FDA Joint Meeting of the FDA Nonprescription Drugs and Anti-Infective Drugs Advisory Committees*. *FDA Public Docket 75N-183H*. January, 1997.

Jones, R. The Healthcare Continuum: A Classification Model for Topical Antimicrobial Products, Including Those Used in the Food Industry. *Dairy, Food, and Environmental Sanitation*, Vol. 18, No. 6, Pages 352-358, June 1998.

PUBLICATIONS (Cont.)

Jones, R. American Society of Testing and Materials: New Standard Test Method for the Assessment of Microbiology Activity of Test Formulations Using a Time-Kill Procedure. Submitted for ballot, 2001

PRESENTATIONS

Jones, R. 2008. "Environmental Disinfection and the Prevention of Infectious Disease". 2008 Cleaning Science Conference & Symposium, June 2008.

Jones, R. 2007. "Draft Mold Policy: An Industry Perspective". And, Moderator for Day Two. EPA 8th Annual Antimicrobial Division Program, May 2007.

Jones, R. 2005. "Efficacy Issues". And, Moderator for Day One. EPA 7th Annual Antimicrobial Division Program, November 2005.

Jones, R. 2003. "Efficacy Issues". And, Moderator for Day One. EPA 6th Annual Antimicrobial Division Program, June 2003.

Jones, R. 2003. "In Vitro and In Vivo Test Methods Used to Assess the Efficacy of Topical Antimicrobial Products". American Society of Microbiology Workshop, May 2003.

Jones, R. 2002. "Current Status of Knowledge and Recommendations for use of Biocides in response to Bioterrorism and Disasters", CSPA Mid-Year Meeting, 2002.

Jones, R. 2001. "Efficacy Issues" EPA National Meeting on the Regulations of Antimicrobial Pesticides.

Jones, R. 2001. Moderator Day One. National Meeting on the Regulations of Antimicrobial Pesticides.

Jones, R. 1998. "Performance Expectations: Linkage of Laboratory and Clinical Studies." Food & Drug Administration, Center for Drug Evaluation and Research, Non-Prescription Drugs Advisory Committee Meeting. July, 1998.

Jones, R. 1997. "Antiseptic Resistance and Topical Antimicrobial Products." CSPA Mid-Year Meeting. May, 1997.

Jones, R. 1997. "The Healthcare Continuum Model – A Tool for the Classification of Topical Healthcare Products". CTFA, The Healthcare Continuum Model Symposium. June, 1997.

Jones, R. 1997. "Bacterial Resistance". The Soap & Detergent Association Technical Meeting, September, 1997.

Jones, R. 1997. "Impact of Antimicrobial Products on Bacterial Resistance." Joint Meeting of the Nonprescriptive Drugs and Anti-Infective Drugs Advisory Committees. January, 1997.

Jones, R. 1997. "The Healthcare Continuum Model: A Tool for Classification of Topical Antimicrobial Wash Products". American Industrial Hygiene Conference & Exposition. May, 1997.

Jones, R. 1996. "The Secret World of Topical Antimicrobial Products." Michigan Society of Infection Control. October, 1996.