

# Applications Development

Paper AD01: A Macro Generating a Report-Ready Table in Different Layout and Format

*Renda Cheng, Bristol-Myers Squibb Company*

Paper AD02: A SAS Database Search Engine Gives Everyone the Power to Know

*Eugene Yeh, PharmaNet, Inc.*

Paper AD03: Developing and Deploying Java Applications Around SAS: What They Didn't Tell You in Class

*Greg S. Barnes Nelson, ThotWave Technologies, LLC*

Paper AD04: Web Services Integration and the SAS Drug Development Platform

*Chris Olinger, d-Wise Technologies, Inc.*

Paper AD05: CDX – Clinical Data Management and Report Programming Environment

*Gunilla Skolleremo, AstraZeneca R&D*

*Pål Edman, AstraZeneca R&D*

Paper AD07: Mergers, Consolidations and PROC COMPARE

*Fang Dong, Pfizer*

Paper AD08: COMPAREXLS - A Powerful Comparison Tool for Spreadsheet Difference Resolution

*Kirill G. Tchernakov, Boehringer Ingelheim*

Paper AD09: CheckAll: A Routine to Produce a Frequency of Response Data Set from Multiple-Response Data

*Ronald J. Fehd, Centers for Disease Control*

Paper AD10: Tools to Facilitate the Creation of Pooled Clinical Trials Databases

*Patricia Majcher, J&J Pharmaceutical Research & Development*

Paper AD11: Organizing and Building a Centralized SAS Macro Library

*Snow Fu, Merck & Co.*

*James Wu, Merck & Co.*

Paper AD12: Implementing an Audit Trail within a Clinical Reporting Tool

*Gregory T. Weber, DataCeutics, Inc.*

*Troy A. Ruth, DataCeutics, Inc.*

*Paul Gilbert, DataCeutics, Inc.*

Paper AD13: Version Control on the Cheap: A User-Friendly Cost-Effective Revision Control System for SAS

*Tim Williams, PRA International*

Paper AD15: Building a Powerful Clinical Decision Support System Using SAS/IntrNet.

*Nick G Paszty, XOMA (US), LLC*

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Paper AD16: A Quicker Way to Inputting and Sorting Large Dataset Using SAS  
*Lin Yan, MedFocus*

Paper AD17: The Big Button Approach for Quickly Running and Printing Large Numbers of Tables  
*Mary P. Cowmeadow, BioStat Reports*

Paper AD18: Customizing Clinical Data Warehouse for Business Intelligence  
*Jianming He, Solucient, LLC*  
*Haibin Shu, Barr Research*  
*Sonia Pulgar, Solucient, LLC*

Paper AD19: Using SAS Drug Development as a Report Management Application  
*Barry R. Cohen, Planning Data Systems, Inc.*

## Coder's Corner

Paper CC01: A Technique to Create a Numeric Variable from a Character Variable

*Hany Aboutaleb, BiogenIdec*

Paper CC02: Using SAS to Speed Up Annotating Case Report Forms in PDF Format

*Dirk Spruck, Covidence GmbH*

*Monika Kawohl, Covidence GmbH*

Paper CC03: A Simplified Way to Create Flags for the Three-Dimensional Prior, Concomitant and Post Medication

*Aileen L. Yam, Aventis, Inc.*

Paper CC04: Backups at the Click of the Mouse

*Jim Box, RTI International*

*Joey Morris, RTI International*

Paper CC05: Integration of Microsoft Office and SAS Software: Implementation of GUI and Automation

*Rubin Nan, PRA International*

*David Mullins, PRA international*

Paper CC06: %ArrayPerm: A SAS Macro for Permutation Analysis of Microarray Data

*Deqing Pei, St. Jude Children's Research Hospital*

*Wei Liu, St. Jude Children's Research Hospital*

*Cheng Cheng, St. Jude Children's Research Hospital*

Paper CC07: Using Compute Blocks in PROC REPORT

*Sharon Dunn, Sepracor*

Paper CC08: Create All Those Tables and Call PROC SQL Once!

*Stanley E. Fogleman, Harvard Clinical Research Institute*

Paper CC09: Changing That Pesky Datetime to a Date

*Stanley E. Fogleman, Harvard Clinical Research Institute*

Paper CC10: Cutting the SAS LOG Down to Size

*Malachy J. Foley, University of North Carolina*

Paper CC12: Use Regression Algorithm Identifying Repeated Use Patients

*Haibin Shu, Barr Research*

Paper CC13: Frequency Generation Using Indicator Variable

*Jinshi Zhou, Quintiles*

Paper CC14: Creating a Mixed-Case Format for Mono-Case Data Using an Input Control Data Set with PROC FORMAT

*Lisa A Soberano, PPD Development, Inc.*

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Paper CC15: Common Error: Wrong Result  
*Varsha C. Shah, University of North Carolina*

Paper CC16: Automating the Documentation of Oracle Clinical Database Specifications  
*Kyle McBride, Instat Consulting, Inc.*

Paper CC17: Module to Create Global Macro Variables with Distinctive Names Matching Date Values They Carry  
*Anatoly V. Kulinsky, FBF Fleet Credit Card Services*

*Paper CC18: Using a Decision Table to Program Complex Date Logic*  
*Arthur N. Collins, Biogen Idec, Inc.*

Paper CC19: GSUBMIT: Simple Customization of your SAS Application Toolbar in SAS for Windows  
*Robert E. Howard, Synteract, Inc.*

Paper CC20: PROC POWER: V9.1  
*Deborah J. Bauer, Sanofi-Synthelabo*

# Data Management

Paper DM01: Data Summary at a Glance

*Varsha C. Shah, University of North Carolina*

Paper DM02: Constructing Analysis Files: A Multi-Tiered Approach

*Tyler W. Cole, Pacific Data Designs, Inc.*

Paper DM03: “Haven’t We Met Somewhere Before?” and Other Useful Lines

*David Rucker, BioCor*

Paper DM04: Helpful Hints on Developing a User Friendly Database with SAS/AF

*Sy J. Truong, Meta-Xceed, Inc.*

Paper DM05: The Use of Automatic ODMS on Late Phase Trials to Increase Data Quality While Decreasing Costs

*Kathleen Kushner, Covance Periapproval*

*Philip L. Pellicone, Covance Periapproval*

Paper DM06: Invalid: A Data Review Macro Using PROC FORMAT Option OTHER=INVALID to Identify and List Outliers

*Ronald Fehd, Centers for Disease Control*

Paper DM07: Why SAS is the Best Place for Your Clinical Data

*Steven A. Wilson, MAJARO InfoSystems, Inc.*

Paper DM08: A SAS Macro for Rapid Identification of Missing Data Records

*Kim Truett, Independent*

Paper DM09: Use That SAP to Write Your Code

*Sandra Minjoe, Genentech, Inc.*

Paper DM10: SASUnit: Automated Testing for SAS

*Greg S. Barnes Nelson, ThotWave Technologies, LLC*

# **FDA Compliance: Electronic Submission and Validation**

Paper FC01: XML Data Mapping under SAS 9 - From the Perspective of Electronic Submissions  
*Tianshu Li, Merck & Co.*

Paper FC02: Data Standards With and Without CDISC  
*Sy J. Truong, Meta-Xceed, Inc.*

Paper FC03: Automation of Patient Narratives  
*David C. Izard, GlaxoSmithKline*  
*Eric M. Simms, GlaxoSmithKline*

Paper FC04: Submission of Analysis Datasets and Documentation: Scientific and Regulatory Perspectives  
*Dave Christiansen, Christiansen Consulting*  
*Stephen E. Wilson, FDA*

Paper FC05: Build Portable Structures and Programs for Electronic Regulatory Submissions  
*Wei Cheng, Isis Pharmaceuticals*

Paper FC06: Using Cyclomatic Complexity to Assess Test Coverage for SAS Programs  
*Michael C. Harris, Amgen, Inc.*

Paper FC07: A Useful Macro for Converting SAS Datasets into SAS Transport Files  
*Xingshu Zhu, Merck & Co.*  
*Shuping Zhang, Merck & Co.*

Paper FC08: An FDA-Requested XML Replacement for SAS Version 5 Transport Files in U.S. Regulatory Submissions  
*Michael C. Palmer, Zurich Biostatistics, Inc.*

Paper FC10: eCTD - A New Standard for FDA Electronic Submission.  
*Shawn Wang, MedXview, Inc.*

Paper FC11: Critical Success Factors in Pharmaceutical Innovation  
*Thomas H. Burger, Eli Lilly and Company*  
*Michael S. Lajiness, Eli Lilly and Company*

## **Hands-On Workshops**

Paper HW01: So You're Still Not Using PROC REPORT. Why Not?

*Daphne Ewing, Synteract, Inc.*

*Ray Pass, Ray Pass Consulting*

Paper HW02: Five Ways to Create Macro Variables: A Short Introduction to the Macro Language

*Art Carpenter, CA Occidental Consultants*

Paper HW03: Reading and Writing XML Files from SAS

*Miriam G. Cisternas, MGC Data Services*

*Ricardo A. Cisternas, MGC Data Services*

Paper HW04: SAS with Style: Creating Your Own ODS Style Template for RTF Output

*Lauren Haworth, Genentech, Inc.*

Paper HW05: Programming Squared (Writing Programs that Write Programs)

*Jim Johnson, Covance*

Paper HW06: Version 9 Changes and Enhancements

*Dana Rafiee, Destiny Corporation*

Paper HW07: Effective Ways of Validating SAS Programs

*Sy J. Truong, Meta-Xceed, Inc.*

Paper HW08: An Animated Guide: The DATA Step Debugger

*Russell M. Lavery, Self*

## Posters

Paper PO01: Statistical Application of SAS in Method Comparison Analysis  
*Zaizai Lu, AstraZeneca Pharmaceuticals*

Paper PO02: Be Careful When You Merge SAS Datasets  
*Yan Lei, GlaxoSmithKline*

Paper PO03: The Meta-Analysis (PROC MIXED) Of Two Pilot Clinical Studies with a Novel Antidepressant  
*Lev Sverdlov, Innapharma, Inc.*

Paper PO04: Testing Normality of Data using SAS  
*Guangbin Peng, Eli Lilly and Company*

Paper PO05: The Paired T-Test: Does PROC MIXED Produce the Same Results as PROC TTEST?  
*Jack S. Nyberg, Pfizer*

Paper PO06: Clinical Trial Randomization Design: Blocked Randomized Response Adaptive Method  
*Kwun Yee T. Poon, VA Palo Alto Health Care System/Stanford University*  
*Che-Chin Lie, PERC*

Paper PO07: Transposition of Variables with Different Formats  
*Peter Z. Lin, AstraZeneca*

Paper PO08: UltraEdit – The Elegance and Ease of SAS Programming on a Server  
*Eugene Tsykalov, GlaxoSmithKline*

Paper PO09: Swiss Army Knife of Listing All Filenames for Multiple Libraries  
*William C. Csont, H.M. Proskin & Associates, Inc.*

Paper PO11: Making Model Selection in Linear Mixed-Effects Models an Easy Process: A SAS Macro Procedure  
*Henry Cheng, MDS Pharma Services*  
*Yuli Xie, MDS Pharma Services*  
*Elizabeth A. Reinbolt, MDS Pharma Services*

Paper PO12: Using Macro to Create a New Format to Transpose Differently Formatted Values  
*Shulin Yuan, Astrazeneca*

Paper PO13: Apply Response Surface Analysis for Interaction of Dose Response Combine Treatment Drug Study  
*Tung-Yi (Tony) Wu, KOS Pharmaceuticals*

Paper PO14: Extending ODS Output by Incorporating Trellis™ Graphics from S-PLUS  
*Robert P. Treder, Insightful Corporation*  
*Jagrata Minardi, Insightful Corporation*

## Statistics and Pharmacokinetics

Paper SP01: Graph the R Matrix in Linear Mixed Model

*Jian Wu, Roche Products Australia*

*Peter Button, Roche Products Australia*

Paper SP02: SAS Application in 2 \* 2 Crossover Clinical Trial

*Wuwei (Wayne) Feng, Eli Lilly & Company*

*Dong Ding, MedFocus, Inc.*

Paper SP03: Automate Pharmacodynamic Analyses of Repeated Measure in Clinical Trials Using SAS Mixed Procedure

*Adeline Yeo, Eli Lilly and Company*

*Grace Li, Eli Lilly and Company*

Paper SP04: Simultaneous Nonparametric Inference in a One-Way Layout Using the SAS System

*Paul Juneau, Pfizer Global Research & Development*

Paper SP05: The Analysis of Gene Markers and the Use of SAS Procedures to Examine MicroArray Data

*Patricia B. Cerrito, University of Louisville*

Paper SP06: Using PROC LOESS with Sparse Data

*Kenneth S. Liu, Merck*

*Alison Kellock, Merck*

Paper SP07: 2D-Gel Proteomics in Biomarker Discovery

*Mark Carpenter, Auburn University*

*Craig Rowell, University of Alabama at Birmingham*

*Coral Lamartiniere, University of Alabama at Birmingham*

Paper SP08: Statistical Simulations for Sample Size Calculation with PROC IML

*Izabella Peszek, Merck & Co., Inc*

Paper SP09: Box Plots for Pharmaceutical Studies: One of the Better Ways to Get a Clear Picture of Study Results

*Mary P. Cowmeadow, BioStat Reports*

Paper SP10: Traditional Repeated Measures Analysis Versus Random Coefficients Models Using PROC MIXED

*Radhi Abdalnabi, Pfizer*

Paper SP11: Incremental Methods of Imputation for Longitudinal Data with Informative Missingness

*Naum M. Khutoryansky, Novo Nordisk Pharmaceuticals*

## Technical Techniques

Paper TT01: Different Decimal Places for Different Lab Tests.

*Cecilia Mauldin, PPD Development*

Paper TT02: Creating Word Tables using PROC REPORT and ODS RTF

*Carey G. Smoak, Roche Molecular Systems, Inc.*

Paper TT03: %Cox\_PH – An Enhancement of SAS PROC PHREG

*Hong Zhang, Merck & Co., Inc.*

Paper TT05: Controlling Graph Size:

*Art Carpenter, CA Occidental Consultants*

*Richard O. Smith, Data Explorations*

Paper TT06: ‘LAG with a WHERE’ and Other DATA Step Stories

*Neil Howard, i3 Data Services*

Paper TT07: Instant SAS Applications with VBScript, Jscript and dHTML

*Brian P. Fairfield-Carter, PRA International*

*Tracy Sherman, PRA International*

*Stephen Hunt, PRA International*

Paper TT08: Processing Large Lists of Parameters and Variables with Macro Techniques

*Eugene Tsykalov, GlaxoSmithKline*

Paper TT09: Is the Legend in Your SAS/GRAPH Output Telling the Right Story?

*Justina M. Flavin, Pfizer Global Research & Development*

*Arthur L. Carpenter, California Occidental Consultants*

Paper TT10: The FORMAT Procedure – More Than Just a VALUE Statement

*Lawrence R. Heaton-Wright, Quintiles Limited*

Paper TT11: Producing Data-Driven Plots for Microsoft Word Using SAS/GRAPH and the SAS Macro Language

*Robert Graebner, Quintiles, Inc.*

Paper TT12: More Customization? Creating Symbols In RTF Files Using ODS

*Richard Rowell, Connetics Corporation*

*Jim Lenihan, ASG-Inc*

Paper TT13: Using the SAS Windowing Environment for Program Development

*Wei Cheng, Isis Pharmaceuticals, Inc.*

Paper TT14: Programming Tips and Examples for Your Toolkit

*John Morrill, Quintiles, Inc*

*Kristi Wiser, Quintiles, Inc.*

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Paper TT15: SAS and Microsoft Excel for Tracking and Managing Clinical Trial Data: Methods and Applications

*Na Li, Pharmacyclics, Inc.*

*Kathy Boussina, Pharmacyclics, Inc.*

Paper TT16: An Experiment with Experimental Proc ROBUSTREG

*Shuang Lu, Merck & Co., Inc.*

Paper TT17: Creating PDF Files for SAS Programs

*Eric Zhang, Merck & Co., Inc.*

Paper TT18: An Introduction to SAS Applications of the Windows Scripting Host

*Stephen Hunt, PRA International*

*Tracy Sherman, PRA International*

*Brian P. Fairfield-Carter, PRA International*

Paper TT19: Undocumented and Hard-to-Find PROC SQL Features

*Kirk Paul Lafler, Software Intelligence Corporation*

Paper TT20: Generating Least Square Means, Standard Error, Observed Mean, Standard Deviation and Confidence Intervals for Treatment Differences Using PROC MIXED

*Richann J. Watson, Kendle International, Inc.*

Paper TT21: One Frequency Macro for All Frequency Tables

*Sam Mao, Quintiles*

*Jim F. Edgington, Quintiles*

Paper TT22: MULTILABEL - A Useful Addition to the FORMAT Procedure

*Venkatesan Chakravarthy, Independent Consultant*

Paper TT23: Dualing Arrays: Reducing DATA Step Passes with Array Look-Ups

*Nancy Brucken, STATPROBE, Inc.*

*Lisa R. Reeves, STATPROBE, Inc.*

Paper TT24: Generating N Shell Programs for N Reports in a Clinical Trial

*John R. Gerlach, Aetna*

## **Tutorials**

Paper TU01: How SAS Thinks

*Neil Howard, i3 Data Services*

Paper TU02: Building and Using User Defined Formats

*Art Carpenter, CA Occidental Consultants*

Paper TU03: Clinical Trials Terminology for SAS Programmers

*Sy J Truong, Meta-Xceed, Inc.*

Paper TU04: Using XML to Create Excel Spreadsheet in SAS: A Step-by-Step Guide

*Raj Juneja, Makro Technologies*

Paper TU05: So You Want to Write a PharmaSUG Paper? That Paper About Writing a Paper

*Dianne Louise Rhodes, Westat*

Paper TU06: A Visual Introduction to SQL Joins

*Kirk Paul Lafler, Software Intelligence Corporation*

*Charles Edwin Shipp, Shipp Consulting*

Paper TU07: How to Develop User Friendly Macros

*Sy J. Truong, Meta-Xceed, Inc.*