

SBCC

**Statistical / Biomathematical
Consulting Clinic**

Biomathematics Department

David Geffen School of Medicine at UCLA

5202 Life Sciences Bldg

310-825-4193

Look within Biomath dept website:

www.biomath.ucla.edu/about/consulting

History

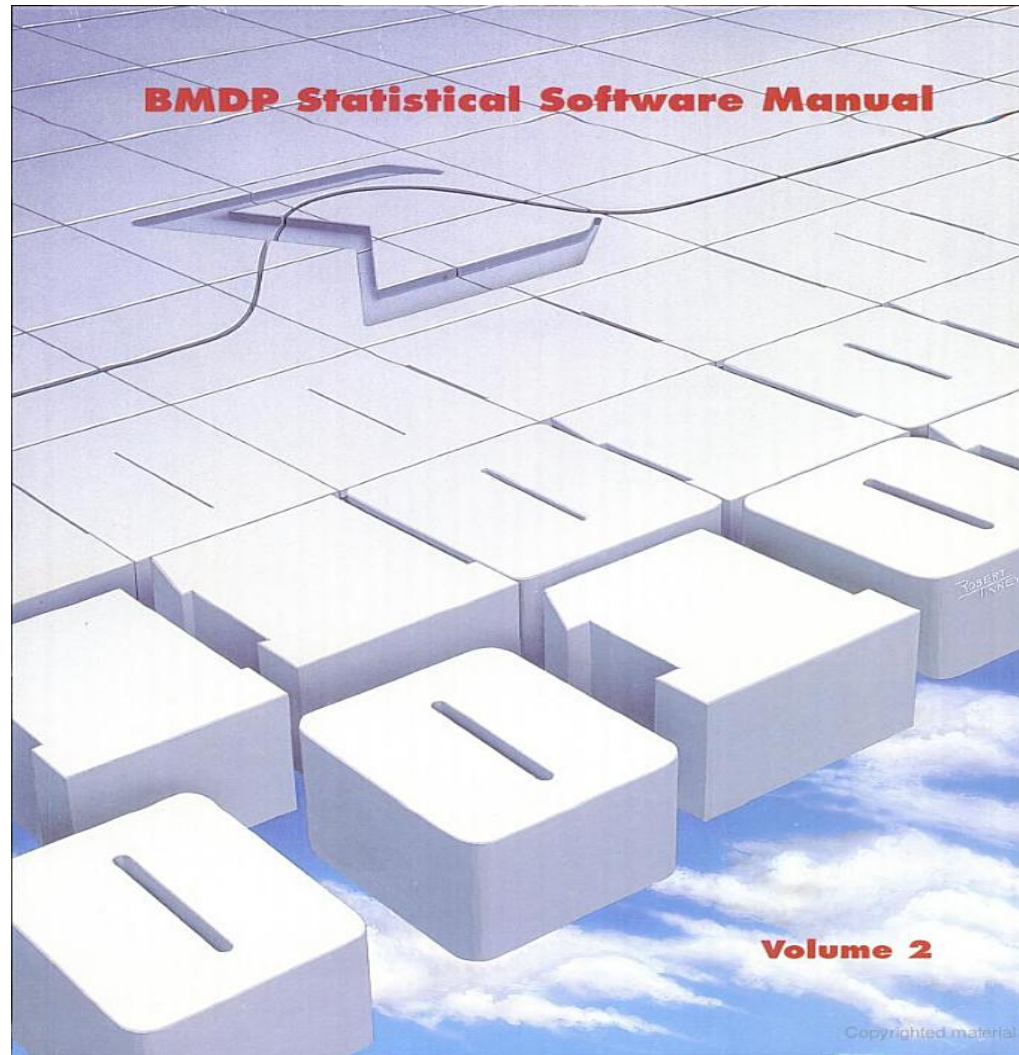
Originally founded in 1962 by Wilfred Dixon as the Health Sciences Consulting Clinic, the S.B.C.C. has not only been serving the biomedical community as part of the UCLA Biomathematics department but also was the birthplace of the BMDP software, one of the first statistical “packages” and a grandfather to SAS, SPSS and their many descendants.

Will Dixon- Founder



IBM Terminals - Dr. Wilfrid Dixon, Dr. Sherman Mellinkoff and Dr. Foster Sherwood of UCLA next to an IBM 1410 data processing systems

SBCCC was the birthplace of BMDP



SBCC Clinic model

Like a medical clinic, we are your “primary care” statisticians. We cover most “routine” statistical planning and analysis issues. We also try to make a “referral” to the faculty or other specialized experts when we encounter problems that require narrow, advanced expertise.

Services provided

Statistical analyses & reports (to PI)
Clinical Trials preparation
Study design protocol development
Statistical analysis plans & sample size/power calculations
Assistance with methodology section for grants
Design and implementation of databases
Modelling (with Biomathematics faculty)
Workshops in statistics/methods
Report preparation
Manuscript and paper reviews

Areas of expertise

Generalized linear models:

(linear, logistic, Poisson, Cox regression, ANOVA)

ROC- Sensitivity, specificity, accuracy

Repeated measure analyses

Survival & competing risks (including trees)

Structural equations – path analyses

Classification trees & random forests (supervised learning)

Cluster analysis (unsupervised learning)

Survey sampling (sampling weights)

Proteomics / metabolomics (PLS, OPLS-DA)

(with Yingnian Wu, Yi Yi, Jan DeLeeuw, Kym Faull)

Sample size / power calculations

Pharmacokinetics (with Elliot Landaw)

Software

SAS – General purpose

JMP – General purpose – menu driven

STATA –General purpose

R – General purpose. XCMS – mass spec in R

SPSS- General purpose

Answer Tree - CART

PASS -sample size

AMOS -structural equations

Tutorials available for JMP

(SAS, STATA, SPSS covered by IDRE)

A full collaboration

Initial meeting - free! (up to a point)
Statistical Analysis Plan (& sample size)
Data management plan
(Study execution - Data collection)
Interim analyses
Final Analyses & Reports
Responses to reviewers

Checklist for investigators

Preparation for the S.B.C.C. meeting

- Study questions / aims - prioritized
- Study design:
Experiment (trial), observational
- Target population: cells, animals, humans, ...
- Outcome measures/endpoints:
Primary, secondary, ...
- Comparison groups
- Potential confounding factors/covariates

SBCC Motto

Our motto “ the earlier the better”

NOT our motto “never enough time to do it right
and always enough time to do it over”

Contact: Jeff Gornbein 310-825-4193

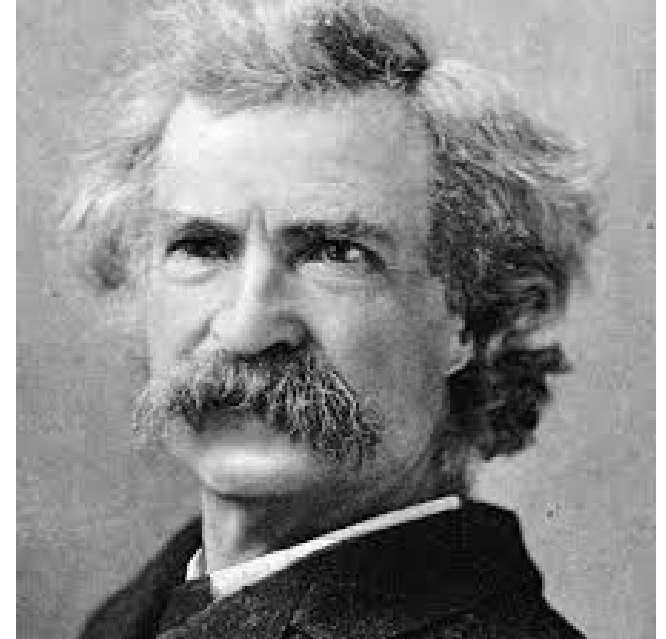
gornbein@ucla.edu to request services

Martha Riemer (manager) 310-206-1704

mriemer@ucla.edu to establish a billing
account for requested services

When doing research, one should try to follow the advice of Mark Twain.

“Always tell the truth.
This will gratify some people
and astonish the rest”.



We can help you get closer to the truth.