The fifth revised edition of this highly successful book presents the most extensive enhancement since Using and Understanding Medical Statistics was first published 30 years ago. Without question, the single greatest change has been the inclusion of source code, together with selected output, for the award-winning, open-source, statistical package known as R. This innovation has enabled the authors to de-emphasize formulae and calculations, and let software do all of the ‘heavy lifting’. This edition also introduces readers to several graphical statistical tools, such as Q-Q plots to check normality, residual plots for multiple regression models, funnel plots to detect publication bias in a meta-analysis and Bland-Altman plots for assessing agreement in clinical measurements. New examples that better serve the expository goals have been added to a half-dozen chapters. In addition, there are new sections describing exact confidence bands for the Kaplan-Meier estimator, as well as negative binomial and zero-inflated Poisson regression models for over-dispersed count data. The end result is not only an excellent introduction to medical statistics, but also an invaluable reference for every discerning reader of medical research literature.

Contents

Preface to the Fifth Edition
Prefaces to the Previous Editions
• Basic Concepts
• Tests of Significance
• Fisher’s Test for 2 x 2 Contingency Tables
• Approximate Significance Tests for Contingency Tables
• Some Warnings concerning 2 x 2 Tables
• Kaplan-Meier or ‘Actuarial’ Survival Curves
• The Log-Rank or Mantel-Haenszel Test for Comparing Survival Curves
• An Introduction to the Normal Distribution
• Analyzing Normally Distributed Data
• Linear Regression Models for Medical Data
• Binary Logistic Regression
• Regression Models for Count Data
• Proportional Hazards Regression
• The Analysis of Longitudinal Data
• Analysis of Variance
• Data Analysis
• The Question of Sample Size
• The Design of Clinical Trials
• Further Comments regarding Clinical Trials
• Meta-Analysis
• Epidemiological Applications
• Diagnostic Tests
• Agreement and Reliability

References

Subject Index
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Contents

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NEUROTRAUMA 2016
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SUNDAY, JUNE 26

AANS/CNS SESSIONS:
AANS-01: The Unstable Spine
Christopher Shaffrey, MD / Cati Miller, MD / Zachary Smith, MD

AANS-02: The Severely Injured Brain
Ramón Díaz-Atienza, MD, PhD / Jamie Ullman, MD / Rajiv Gupta, MD, PhD

AANS-03: Restoring Function After SCI
Wilson Ray, MD / Noam Harel, MD / Ann Pann, MD, PhD

AANS-04: Advances in TBI
Uzma Samadani, MD, PhD / Tanvir Choudhri, MD / Kristy Arbogast, MD

NNS PRE-MEETING WORKSHOPS: "NEW"
WS-01: Human TBI Neuropathology Training Session:
Acute Pathologies with a Focus on Axonal Injury
William Stewart, PhD / Patricia Washington, PhD

WS-02: TBI Preclinical Research Methods
Deborah Shear, PhD / Frank Tortella, PhD / Timothy Wallko, PhD /
Namas Chandra, PhD / C. Edward Dixon, PhD / Susan Marguiles, PhD

WS-03: Dissecting Brain Function in Mouse and Human Development,
Aging & Disease
Jack Walsh, PhD / Basilia Tasi, PhD / Julie Harris, PhD / Ed Lim, PhD

WS-04: Implementing Common Data Elements in Clinical Research Activities
Susan Chaffin, PhD / Mary Jane Mulcahey, PhD / Vanessa Noonan, PhD

WS-05: Connecting TBI Animal Models to Human Disease:
Biomedical Relevance
Susan Marguiles, PhD / Cheryl Wellington, PhD / Lee Goldstein, PhD

WS-06: Zero to One Thinking: Innovative Brain Injury Approaches
Krís Kimel, Kentucky Science & Technology Corporation

Presidential Lecture & Welcome Reception

MONDAY, JUNE 27

Poster Session IA - Breakfast with Exhibitors
PL-01: What is Mild TBI?
Gerard Gioia, PhD / David Wright, MD / Doug H. Smith, MD / Christopher Giza, MD

PL-02: Advances in Clinical Trial Design
Michael Fehlings, MD, PhD / Geoff Markey, MD, PhD
Panels: David Okuknow, MD, PhD / Marco Rizzo, MD / Wise Yieking, PhD

DB-01: Data Blitz Oral Presentations
WINTR LUNCH: Discussions of Careers in Science
S-01: The Role of Amygdala in Co-Morbid PTSD/TBI
Thomas McAllister, MD / Asia Pitkanen, MD, PhD / Theresa Currier-Thomas, PhD / Ann Hoffman, PhD

S-02: Management of Acute Autonomic Dysfunction After SCI
Andrey Kasaev, MD, PhD / David Milbrandt, PhD / Charles Huber, PhD

S-03: Pediatric Spinal Cord Injury: An Overlooked Aspect of Neurotrauma Rehabilitation
Rachel Stanley, MD / Christine Sadowski, MD / Nicholas Theodore, MD

S-04: Spreading Depolarizations as a Mechanistic Target in TBI: Translational Studies
Cenk Ayata, MD / Jason Hritzman, PhD / Jed Hartlings, PhD

S-05: Cervical SCI and Restoration of Respiratory Function
Jared Degi / Tatiana Bezduhynaya, PhD / Angelis Lepore, PhD /
Carlos Martell, PhD

S-06: Radiological-Pathological Correlations in TBI
Matthew Budde, PhD / Brian Edlow, PhD / Larri Latour, PhD /
Laurena Hiltiner, PhD

Poster Session IB - Wine & Cheese with Exhibitors
WINTR Mentoring & Networking Reception

TUESDAY, JUNE 28

Poster Session IIA - Breakfast with Exhibitors
PL-03: Acute Cellular Pathophysiology of Neurotrauma
Kevin K. Parker, MD / Jeffrey Milbrandt, PhD / Ira Warner, PhD

PL-04: Engineering Approaches for Functional Restoration After Spinal Cord Injury
Jennifer French / Susan Hankema, PhD / Amanda Burdel, PhD

PP-01: Patient Perspective Lecture
Maria E Garay-Serratos, MSW, PhD

Student/Post-Doc Teambuilding Activity & Lunch "NEW"
Triangle Park / Life Adventure Center

S-07: What We Know About Hippocampal Circuitry Dysfunction and the Future of Therapeutic Strategies
David Marney, MD / Vijit Santhakumar, MD / Coen Akkens, PhD /
Alana Cohen, PhD

S-08: Spinal Cord Injury: Rehabs Plus
Ray de Leon, PhD / John House, PhD / Ronaldo Ichijima, PhD

S-09: TBI Translational Biomarkers - From Animal Models to FDA-Qualified Biomarkers as TBI Drug Development Tools
Allison Kumar, PhD / Kevin Wang, PhD / Diane Stephenson, PhD / Patik Maiti, PhD

S-10: Sex Differences in CNS Injury
Olivia Harris, MD / Jayle Waddey, PhD / Candace Floyd, PhD

S-11: Nanomaterial Promotion of Regeneration in SCI
Molly Shoichet, PhD / DiAnna Hynds, PhD / Vladimir Parpura, MD, PhD

S-12: The Effect of Age on Trauma-Induced Neuroinflammation
Michelle Scholer, MD / Adam Bachstetter, PhD / David Loane, PhD

Poster Session IIIA - Wine & Cheese with Exhibitors
A Night at the Races Dinner & Award Ceremony

WEDNESDAY, JUNE 29

Poster Session IIIA - Breakfast
PL-05: Advances, Challenges and Opportunities in CNS Regeneration
George Smith, PhD / Zhigang He, PhD / Shain Li, PhD

PL-06: A Primer on Imaging: From Animal Models to Human Subjects
E. Mark Haacke, PhD / Victor Song, PhD / Juli Gelovani, PhD

PL-07: Big Data Approach to Neurotrauma
Patrick Biegowski, PhD / Douglas H. Smith, MD / Paul Thompson, PhD /
Adam Ferguson, PhD

PL-08: Lifestyle Choice Treatments for Neurotrauma
Jason Scott Robert, PhD / Andre Obenaus, PhD / Christian Baumann, PhD

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Interactions between predator and prey can drive the evolution and diversification of nervous systems in astonishing ways. At the 2014 Karger Workshop, emerging leaders in the field presented highlights of some of the most compelling examples of co-evolved and specialized predators and prey. This subsequent special issue of *Brain, Behavior and Evolution* includes discussions on neurotoxins, ion channels, visual systems, auditory localization, muscle activation, and echolocation. The species and questions addressed are equally diverse: How do alligators and owls localize sounds? What do two bats do when chasing the same insect? Why do some newts carry enough neurotoxin to kill twenty humans? What rules govern killer fly attack behavior? How do electric eels remotely control prey? Why are beautiful cone snails a potential cornucopia of pharmaceuticals? Overall, this publication provides valuable insight into why predator-prey interactions hold a special place in the study of biology and evolution.

Contents

Preface: Catania, E.H.; Catania, K.C.

Original Papers

- Sound Localization Strategies in Three Predators: Carr, C.E.; Christensen-Dalsgaard, J.
- An Optimized Biological Taser: Electric Eels Remotely Induce or Arrest Movement in Nearby Prey: Catania, K.C.
- Predictably Convergent Evolution of Sodium Channels in the Arms Race between Predators and Prey: Brodie III, E.D.; Brodie Jr., E.D.
- Prey-Capture Strategies of Fish-Hunting Cone Snails: Behavior, Neurobiology and Evolution: Olivera, B.M.; Seegers, J.; Horvath, M.P.; Fedosov, A.

Author Index / Subject Index
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1 Translating Adult Electrophysiology Findings to Younger Patient Populations: Difficulty Measuring 40-Hz Auditory Steady-State Responses in Typically Developing Children and Children with Autism Spectrum Disorder

15 Erythropoietin Modulates Cerebral and Serum Degradation Products from Excess Calpain Activation following Prenatal Hypoxia-Ischemia
Jantzie, L.L. (Boston, Mass./Albuquerque, N. Mex.); Winer, J.L.; Corbett, C.J.; Robinson, S. (Boston, Mass.)

27 Zebrafish Olfacto-Retinal Centrifugal Axon Projection and Distribution: Effects of Gonadotropin-Releasing Hormone and Dopaminergic Signaling
Pfister, D.; Yu, C.; Kim, D.S.; Li, J.; Drewing, A.; Li, L. (Notre Dame, Ind.)

34 Pyruvate to Lactate Metabolic Changes during Neurodevelopment Measured Dynamically Using Hyperpolarized 13C Imaging in Juvenile Murine Brain

41 The Effect of Perinatal Hypoxic/Ischemic Injury on Tyrosine Hydroxylase Expression in the Locus Coeruleus of the Human Neonate

54 Ontogenetic Change in the Regional Distribution of Dehydroepiandrosterone-Synthesizing Enzyme and the Glucocorticoid Receptor in the Brain of the Spiny Mouse (Acomys cahirinus)

74 Recurrent Moderate Hypoglycemia Suppresses Brain-Derived Neurotrophic Factor Expression in the Prefrontal Cortex and Impairs Sensorimotor Gating in the Posthypoglycemic Period in Young Rats
Rao, R.; Ennis, K.; Mitchell, E.P.; Tran, P.V.; Gewirtz, J.C. (Minneapolis, Minn.)

Cover illustration
Exploiting the Force of hyperpolarized 13C magnetic resonance spectroscopy to enlighten the Dark Side of the juvenile murine brain. For details see Chen et al., fig. 1b, p. 36.