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.

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PTS50 - The Prokaryotic Phosphoenolpyruvate: Sugar Phosphotransferase System
50 Years After Its Discovery

Editor
Milton H. Saier

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**Selected contributions**
- Principles of Rehabilitation and Reactivation: Interstitial Lung Disease, Sarcoidosis and Rheumatoid Disease with Respiratory Involvement: Holland, A.E.; Downman, L.M.; Hill, C.J. (Melbourne, Vic.)
- Guideline for the Acquisition and Preparation of Conventional and Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration Specimens for the Diagnosis and Molecular Testing of Patients with Known or Suspected Lung Cancer: van der Heijden, E.H.J.M. (Nijmegen); Casal, R.P. (Houston, Tex.); Trisolini, R. (Bologna); Steinfort, D.P. (Parkville, Vic.); Hwangbo, B. (Goyang); Nakajima, T. (Chiba); Guldhammer-Skov, B. (Copenhagen); Rossi, G. (Modena); Ferretti, M. (Ancona); Herth, F.F.J. (Heidelberg); Yung, R. (Baltimore, Md.); Krasnik, M. (Copenhagen) on behalf of the World Association for Bronchology and Interventional Pulmonology Task Force on Specimen Guidelines
- Exercise Training-Based Pulmonary Rehabilitation Program Is Clinically Beneficial for Idiopathic Pulmonary Fibrosis: Vainshelboim, B. (Petch Tikva/Porto); Oliveira, J. (Porto); Yehoshua, L.; Weiss, I. (Petch Tikva); Fox, B.D.; Fruchtman, O.; Kramer, M.R. (Petch Tikva/Tel Aviv)
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