

## NEUROSCIENCE

1. Bioscience Indications for Chronic Disease Management and Neuromedical Interventions Following Traumatic Brain Injury

– *Mark J. Ashley, Grace S. Griesbach, David L. Ripley, Matthew J. Ashley*

2. The Neurobiology of Traumatic Brain Injury

– *Thomas C. Glen, Richard L. Sutton and David A. Hovda*

3. Repeat Traumatic Brain Injury Models – *Mayumi Prins*

4. Neuroplasticity and Rehabilitation Therapy – *Robert P. Lehr*

5. Environment Enrichment: A Preclinical Model of Neurorehabilitation for Traumatic Brain Injury

– *Corina O. Bondi & Anthony E. Kline*

6. Neuroanatomy of Basic Cognitive Function – *Mark J. Ashley, Jessica G. Ashley & Matthew J. Ashley*

7. TBI Rehabilitation: Lessons Learned from Animal Studies about Mechanisms, Timing and Combinatorial Approaches

– *Dorothy A. Kozłowski*

8. Diet and Exercise Interventions to Promote Metabolic Homeostasis in TBI Pathology – *Fernando Gomez-Pinilla*

9. Disruptions in Physical Substrates of Vision Following Traumatic Brain Injury – *Richard E. Helvie*

10. Potential Utility of Resting State fMRI-Determined Functional Connectivity to Guide Neurorehabilitation

– *Neil G. Harris and Jessica G. Ashley*

11. TBI and Sensory Sensitivity: Translational Opportunities – *Timothy W. Ellis and Jonathan Lifshitz*

12. The Neuroimaging Challenges in Hemispherectomy Patients

– *Zachary Jacokes, Avnish Bhattraï, Carinna Torgerson, Andrew Zywiec, Sumiko Abe, Andrei Irimia, Meng Law, Saman Hazany, and John Darrell Van Horn*

## MEDICAL

13. Clinical Management of the Minimally Conscious State – *Yelena G. Bodien, Sabrina R. Taylor, and Joseph T. Giacino*

14. Neuropharmacologic Considerations in the Treatment of Vegetative State and Minimally Conscious State Following Brain Injury

– *Deborah L. Doherty*

15. Clinical Management of Pituitary Dysfunction After Traumatic Brain Injury – *Adam H. Maghrabi, Brent E. Masel, Randall J. Urban, and David L. Ripley*

16. Neurotransmitters and Pharmacology – *Ronald A. Browning and Richard W. Clough*

17. Pituitary Dysfunction After Traumatic Brain Injury – *Tiffany Greco*

18. Increasing Physiologic Readiness to Improve Functional Independence Following Neurotrauma

– *Gregory J. O'Shanick and Ryan McQueen*

19. Assessment and Management of Mild Traumatic Brain Injury – *Mark J. Ashley, Matthew J. Ashley*

20. Chronic Traumatic Encephalopathy (CTE) – *Anne C. McKee*

21. Posttraumatic Epilepsy and Neurorehabilitation

– *Theresa D. Hernández, Sudha S. Tallavajhula, Kristina Legget, and Paul M. Levisohn*

## **THERAPY**

22. Evaluation of Traumatic Brain Injury Following Acute Rehabilitation – *Mark J. Ashley*

23. Neuropsychology following Brain Injury: A Pragmatic Approach to Outcomes, Treatment, and Applications- *James J. Mahoney, III*

24. Neuropsychological Interventions Following Traumatic Brain Injury – *Jason W. Krellman, TheodoreTsaousides, and Wayne A. Gordon*

25. The Use of Applied Behavioral Analysis in Traumatic Brain Injury Rehabilitation – *Craig S. Persel and Chris H. Persel*

26. Rehabilitation and Management of Visual Dysfunction Following Traumatic Brain Injury – *Penelope S. Suter*

27. Remediative Approaches for Cognitive Disorders After TBI

– *Mark J. Ashley, Rose Leal, Zenobia Mehta, Jessica G. Ashley, Matthew J. Ashley*

28. Principles of Cognitive Rehabilitation in TBI: An Integrative Neuroscience Approach – *Fofi Constantinidou and Robin D. Thomas*
29. Management of Residual Physical Deficits – *Velda L. Bryan, David W. Harrington, Michael G. Elliott*
30. Undertaking Vocational Rehabilitation in TBI Rehabilitation – *Mark J. Ashley, Joe Ninomiya, Jr., Amy Berryman, Karen Rasavage*

## **CASE MANAGEMENT**

31. The Contribution of Neuropsychological Evaluation to Traumatic Brain Injury Rehabilitation – *Jay M. Uomoto*
32. Neurobehavioral Consequences of Mild Traumatic Brain Injury in Military Service Members and Veterans  
– *Jay M. Uomoto, Sarah M. Wilson, Rhonda M. Williams, and Leigh A. Randa*
33. Issues in Aging Following Traumatic Brain Injury – *Grace S. Griesbach, Mark J. Ashley, Alan Weintraub*
34. Children and Adolescents: Practical Strategies for School Participation and Transition – *Roberta DePompei and Janet Siantz Tyler*
35. Long-Term Discharge Planning in Traumatic Brain Injury Rehabilitation – *Mark J. Ashley and Susan M. Ashley*
36. Patients' Rights and Responsibilities, Health Care Reform and Telehealth: Ethical Considerations  
– *Thomas R. Kerkhoff and Stephanie L. Hanson*