

# Contents

## **VII Preface**

Posthumus, M.; Collins, M. (Cape Town)

## **1 Core Concepts in Human Genetics: Understanding the Complex Phenotype of Sport Performance and Susceptibility to Sport Injury**

Gibson, W.T. (Vancouver, B.C.)

## **15 Nature versus Nurture in Determining Athletic Ability**

Yan, X.; Papadimitriou, I. (Melbourne, Vic.); Lidor, R. (Netanya); Eynon, N. (Melbourne, Vic.)

## **29 Recent Research in the Genetics of Exercise Training Adaptation**

Venezia, A.C.; Roth, S.M. (College Park, Md.)

## **41 Genes and Athletic Performance: An Update**

Ahmetov, I.I. (Kazan/Moscow); Egorova, E.S.; Gabdrakhmanova, L.J. (Kazan); Fedotovskaya, O.N. (Stockholm)

## **55 The Future of Genomic Research in Athletic Performance and Adaptation to Training**

Wang, G. (Eastbourne); Tanaka, M. (Tokyo); Eynon, N.; North, K.N. (Melbourne, Vic.); Williams, A.G. (Crewe); Collins, M. (Cape Town); Moran, C.N. (Stirling); Britton, S.L. (Ann Arbor, Mich.); Fuku, N. (Chiba); Ashley, E.A. (Stanford, Calif.); Klissouras, V. (Athens); Lucia, A. (Madrid); Ahmetov, I.I. (Kazan); de Geus, E. (Amsterdam); Alsayrafi, M. (Doha); Pitsiladis, Y.P. (Eastbourne)

## **68 Genes and Musculoskeletal Soft-Tissue Injuries**

Rahim, M.; Collins, M.; September, A. (Cape Town)

## **92 Genetics of Musculoskeletal Exercise-Related Phenotypes**

Collins, M. (Cape Town); O'Connell, K. (Stellenbosch); Posthumus, M. (Cape Town)

## **105 Genetic Testing for Sports Performance, Responses to Training and Injury Risk: Practical and Ethical Considerations**

Williams, A.G. (Crewe/London); Wackerhage, H. (Aberdeen); Day, S.H. (Crewe)

## **120 Author Index**

## **121 Subject Index**