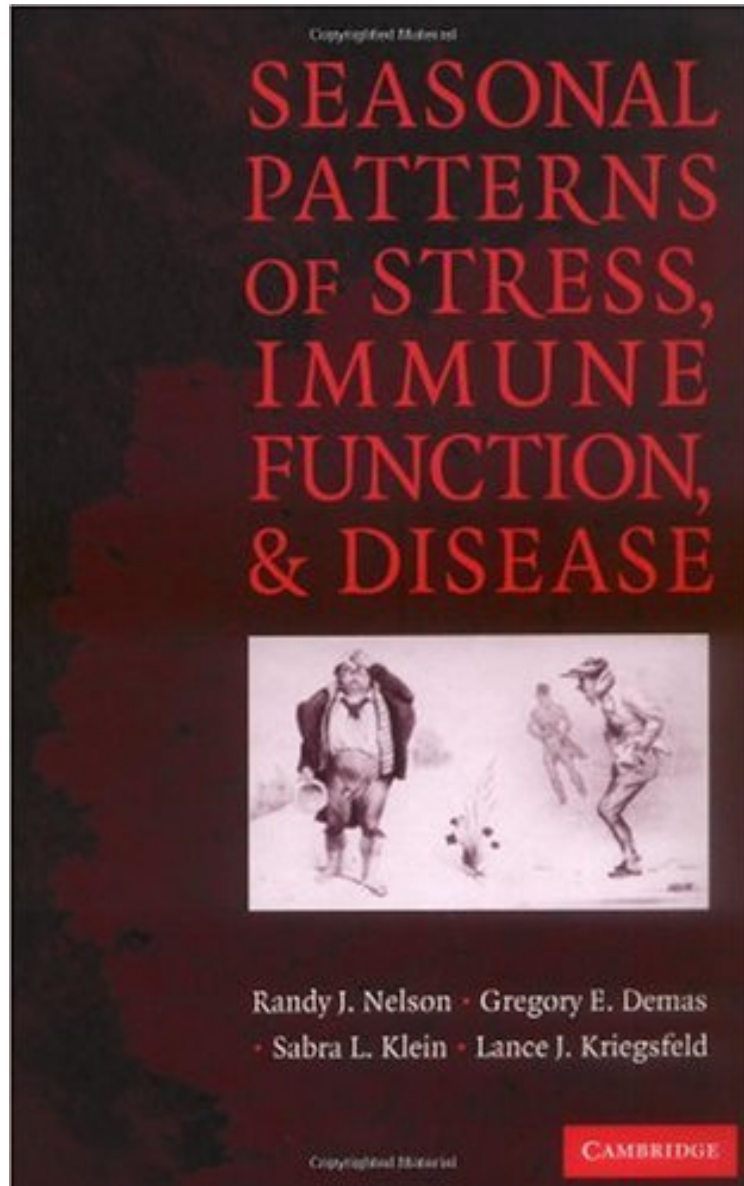


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Seasonal Patterns of Stress, Immune Function, and Disease

Randy J. Nelson, Gregory E. Demas, Sabra L. Klein, Lance J. Kriegsfeld

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Randy J. Nelson, Gregory E. Demas, Sabra L. Klein, Lance J. Kriegsfeld : Seasonal Patterns of Stress, Immune Function, and Disease before purchasing it in order to gauge whether or not it would be worth my time, and all praised Seasonal Patterns of Stress, Immune Function, and Disease:

0 of 0 people found the following review helpful. Five Stars By Edward J. Korber Fine text well worth the read

This book presents evidence that infection is cyclical with the seasons, and that this phenomenon is mirrored in cycles

of immune function. The book identifies the mechanisms by which immune systems are bolstered to counteract seasonally-recurrent stressors, such as extreme temperature reductions and food shortages. Stress, infectious diseases, autoimmune diseases, and human cancers are examined, and the role of hormones such as melatonin and glucocorticoids is considered. The book begins with an overview of seasonality, biological rhythms and photoperiodism, and basic immunology, and then discusses seasonal fluctuations in disease prevalence, immune function, and energetics and endocrinology as they relate to immune function. The clinical significance of this issue is also addressed, as such seasonal changes may play an important role in the development and treatment of infections. This first monograph to examine seasonal immune function from an interdisciplinary perspective will serve practitioners as well as advanced undergraduates and graduate students in biology, immunology, human and veterinary medicine, neuroscience, endocrinology, and zoology.

"As the first book to describe seasonal immune function from an interdisciplinary perspective, [this book] is recommended for undergraduate or graduate classes wishing to break down departmental barriers and learn about an organism as a whole." *TRENDS in Endocrinology and Metabolism* "...an interesting and rather provocative book on the effect of the seasons of the year on stress, immune function, and disease." *Lancet* "...this book should be valuable to anyone interested in immune function in wild animals, and also should be of interest to epidemiologists and immunologists attempting to understand patterns of disease prevalence." *Animal Behaviour* "The issues expored in the book are wide-ranging and interdisciplinary, and will appeal to anyone interested in seasonality and health."

About the Author
A. Courtney DeVries is an Associate Professor of Psychology and Neuroscience at The Ohio State University. She is also a member of the Institute for Behavioral Medicine at Ohio State. She received her B.A. from The Johns Hopkins University in 1991 and her Ph.D in Zoology from the University of Maryland in 1995. Professor DeVries conducted postdoctoral studies at the National Institutes of Health in Bethesda, Maryland from 1995-1996, and served as a Research Faculty at the University of Maryland from 1996-1998 before joining the faculty at The Johns Hopkins University in 1998 where she was an Assistant Professor of Anesthesiology and Critical Care Medicine. She joined the faculty at Ohio State University in the fall of 2000. Professor DeVries has published sixty articles and chapters in professional journals and edited volumes. She has won numerous awards including the Outstanding Graduate Research Award in 1995, the Young Scientist Award from the New York Academy of Sciences in 1996, the Fellows Award for Research Excellence from the Office of the NIH Scientific Director in 1996, the Frank A. Beach Award for Research Excellence from the Society for Behavioral Neuroendocrinology in 2000, the Established Investigator Award from the American Heart Association in 2003, and the Curt P. Richter Award from the International Society of Psychoneuroendocrinology in 2006. She is a fellow of the American Stroke Association and the American Heart Association. Professor DeVries' current research focuses mainly on the effects of stress and prosocial behaviors on health outcomes, especially related to ischemic damage associated with cardiac arrest and stroke.

Randy J. Nelson is Distinguished Professor of Social and Behavioral Sciences and Professor of Psychology and Neuroscience at The Ohio State University. He also co-directs the Neuroscience Graduate Studies Program. He received his A.B. from the University of California in Berkeley in 1978, a M.A. and Ph.D in Psychology from the University of California at Berkeley in 1980 and 1983, respectively, as well as a Ph.D. in Endocrinology from the University of California at Berkeley in 1984. Professor Nelson conducted postdoctoral studies at the University of Texas at Austin from 1984-1986. He served on the faculty at The Johns Hopkins University from 1986 until 2000 where he was Professor of Psychology and Neuroscience. He joined the faculty at Ohio State in the fall of 2000. He currently serves on the Editorial Board for "Behavioral Neuroscience," "Frontiers in Behavioral Neuroscience," and "Brain, Behavior, and Immunity," Professor Nelson has published nearly three hundred articles and chapters in professional journals and edited volumes. He is a fellow of the American Association for the Advancement of Science, American Psychological Association, Association for Psychological Science, and the Animal Behavior Society. The third edition of his textbook, "An Introduction to Behavioral Endocrinology" was published in 2005 by Sinauer Associates. In 2002, he co-authored a book entitled, "Seasonal Patterns of Stress Immune Function, and Disease" published by Cambridge University Press. In 2003, he co-edited the volume, "Biological Psychology" for Wiley and Sons and he edited the volume, "Biology of Aggression," published by Oxford University Press in 2006. Professor Nelson is co-editor for the "Oxford" Series in Behavioral Neuroendocrinology." Professor Nelson's current research focuses primarily on seasonality, behavioral neuroendocrinology, biological rhythms, stress, immune function, sexual, aggressive, and other social behaviors.