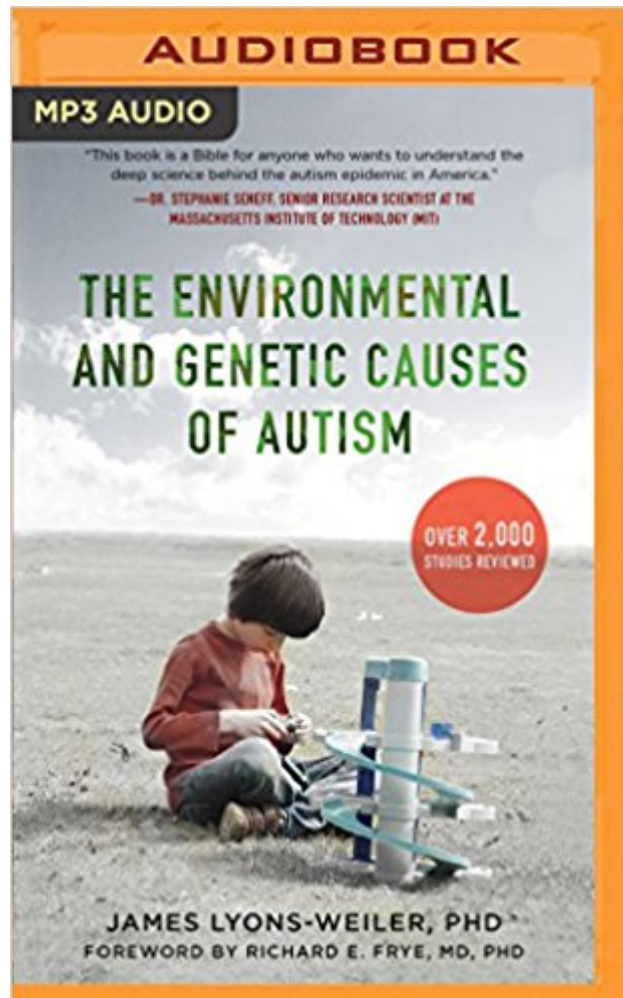




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# The Environmental And Genetic Causes Of Autism



## Synopsis

The Environmental and Genetic Causes of Autism delves deep into the full body of past and current research to reveal how genetic predispositions and environmental factors can combine to produce the conditions autism and autism spectrum disorders (ASD). To make this groundbreaking volume, Dr. James Lyons-Weiler combed through the past fifty years of published research on autism, exploring subjects such as genetic variation, mechanisms of neurotoxicity of metals and pesticides, and the central and combined roles of each in causing autism. Lyons-Weiler provides a major overview of all aspects of the condition of autism, reviews changes in diagnoses and treatments, and explains how genetic information can be used to tailor effective treatments, and sometimes reversals, of the symptoms. He also presents practical forward-looking suggestions on how to design future studies to facilitate the discovery of biomarkers for autism risk and how to classify the full range of autism spectrum disorders. Autism is considered one of the most mystifying conditions of our day, and alarmed scientists, doctors, politicians, and parents are desperately trying to understand why the condition is escalating. According to the CDC, rates in the United States have risen from an estimated one in two thousand children in 1980, to one in sixty-eight in 2012, and a new National Health Interview Survey shows a rate of one in forty-five. By the time you read this book, that number may have changed yet again. While most autism researchers focus on either environmental or genetic causes of autism, Lyons-Weiler's opus demonstrates that to fully understand the condition and to finally put its rate on the decrease, it is essential to pay attention to the science showing how the two classes of factors interact.

## Book Information

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## Customer Reviews

"With over one million new cases per year, a current incidence of one in 45-68 children, and a projected incidence of one in two children within two decades, this is more than an epidemic - it is a national crisis. At this rate, our entire nation will be crippled, as eventually all of us will either be autistic or caring for one. While nearly all efforts and public pronouncements are about management and care, very few are exploring cause. The most we hear from the medical community, perhaps with a sad shrug of the shoulders, is that autism is a genetic disorder, blamed on parents and ancestors, a tragic but inevitable outcome at the genetic roulette table. They vigorously cross vaccines off the list of possible causes, and state that science has settled that question for all time (as if that were possible in science). Dr Lyons-Weiler, an impeccably-credentialed biologist, with this important book, has authoritatively dispelled this myth, and clearly explains the manifestations and environmental causes of this terrible spectrum of disorders. In so doing, he provides much-needed hope for its prevention and cure. With scientific rigor that will satisfy the strictest researcher, and accessible language that welcomes the untrained, Dr Lyons-Weiler makes a compelling case for action, steps that will change our future and avert catastrophe. If you are a parent, health professional or scientist, and care about our collective future, this is an essential book to read and take action on." — Michael Gaeta DAC, MS, CDN, clinician and educator

With nearly one in fifty US children being diagnosed with autism, The Environmental and Genetic Causes of Autism could not come soon enough. The information in this book needs to be read by all medical students, physicians, and parents. I highly recommend this book. — Dr. David Brownstein, MD, medical director, Center for Holistic Medicine

Dr. Lyons-Weiler is an inspired American scientist. . . . I can say without reservation that this learned person has the ethics of a true teacher, the type idealized from the roots of Western Civilization. He analyzes scientific data for the sake of improving the human condition without monetary influence. . . . His work is encyclopedic. — Dr. Edward & Ted Fogarty, MD, chair, Department of Radiology, University of North Dakota School of Medicine and Health Sciences

With over one million new cases per year, a current incidence of one in 45-68 children, and a projected incidence of one in two children within two decades, autism is more than an epidemic; it is a national crisis. At this rate, our entire nation will either be autistic or caring for someone who is. While nearly all efforts and public pronouncements are about management and care, very few are exploring cause. We hear from the medical community that autism is a tragic but inevitable outcome of genetic roulette. Dr. Lyons-Weiler, an impeccably credentialed biologist . . . clearly explains the

environmental causes of this terrible spectrum of disorders. In so doing, he provides much-needed hope for its prevention and cure. If you are a parent, health professional, or scientist, this is an essential book to read.

—Michael Gaeta, DAc, MS, CDN, clinician and educator

—This book is a Bible for anyone who wants to understand the deep science behind the autism epidemic in America. Dr. Lyons-Weiler shows us convincingly that autism is not a mysterious disease with no known cause and no known treatment: it is the expected outcome when you expose a child with a certain genetic makeup to multiple neurotoxins simultaneously.

—Dr. Stephanie Seneff, senior research scientist at the Massachusetts Institute of Technology (MIT)

—[Dr. James Lyons-Weiler's new book is a call to action] for the pediatric community to awaken from its dogmatic slumber. . . . Until our understanding of [autism spectrum disorders] (and their environmental, genetic, and immunological underpinnings) is secure, we must all be willing to evolve as practitioners and scientists and, thusly, light our own candles in the darkness, lest we fall into an abyss.

—Dr. Anthony Kovatch, MD, pediatrician, Pediatric Alliance

—Lyons-Weiler has done us all an immense service by putting together this well-documented and highly informative overview of autism. Those who are really seeking answers and a way forward will welcome this book. Those whose interests are threatened will not. Indeed, Lyons-Weiler will be able to measure just how much he has stung big pharma by the number of pharma-paid negative reviews in the media, and by the troll attacks, and the denunciations by the CDC. He should wear all these as a badge of [honor] for ultimately the truth will come out. This book will help the truth emerge.

—Christopher A. Shaw, PhD, author of *Neural Dynamics of Neurological Disease* --This text refers to the Hardcover edition.

I offer this book as a stimulant for free and open consideration of the effects of policy based on science that is bent by the overwhelming agenda of profit. Each individual in society has to face their individual responsibility in the debacle - not for themselves, but rather for future generations. The future of our society, and indeed that of our species may well depend on this generation's ability to identify how to bend the curve of the increases in the rate of autism, yes, but also the myriad additional conditions that fall into vague classes of autoimmune disorders. My goal in this book was to summarize as much of the basic, translational and clinical research on autism as a collection of traits. The result is, I hope, going to help raise the bar and improve the tone of discourse on the causes of autism. When only part of the science is selected to support a pre-conceived notion during the formation of public policy, everyone suffers from the impoverishment of knowledge. This poverty of comprehension has profound impact on a

growing number of Americans and people around the world. In keeping with my personal view that it is during the time of deepest despair that we are mathematically entitled to the largest possible amount of hope, I do hope that the knowledge I have brought forward will help drive forward key changes in research and in medical practice. --This text refers to the Hardcover edition.

This November 2016 release is a complete paradigm shift the likes of which I've never seen. After 4 years of research on autism, genetics, immunity and disease, attempting to understand and treat my son's autism, this one book brings it all together. All of the factors contributing to this epidemic are represented here. Documented, assimilated, translated and notated by a brilliant-minded scientist. James Lyons-Weiler's background in Molecular Biology, Molecular Evolution, Plant Biology, Biogeography, and Paleontology, and Population Ecology, Classical and Molecular Cytogenetics, Conservation Biology, Population Genetics, and Experimental Design has apparently uniquely qualified him to write this definitive work. It does NOT provide the easy answers, but all the right questions, implication and indictment. On a little reading binge, this is my 14th book in the last 2 months relating to autism, infectious disease, immunology... the history and politics. But, this ONE book reveals a depth of study that makes most others look like they're in the sandbox eating bugs. The devil is truly in the details. Even the most exceptional scientific minds will be challenged to assimilate the depth and breadth of this examination in translational research. James Lyons-Weiler has written THE MOST IMPORTANT BOOK IN PEDIATRICS right now and for the foreseeable future. I am only half way in as I read and re-read sections trying to wrap my head around his interpretation of over 3,000 peer reviewed studies. A warning to those without a high capacity for complex scientific analysis, it may not be the first book you should read in understanding the complexity of the 'debate' on autism. I would suggest 'Age of Autism' by Dan Olmsted and 'Dissolving Illusions' by Dr. Suzanne Humphries. I'd seen VAXXED and knew very well the story of Dr. Andy Wakefield's crucifixion by the medical community and media. So much vitriol over a little study suggesting a possible link between a vaccine and immune system dysregulation. Where are we as a society, as a scientific community, if we attack a person who publishes a study recommending more research on the issue (as nearly EVERY scientific paper does). Frankly, I thought the movie VAXXED barely scraped the iceberg on the possible link between vaccines and autism. You'd be better served by first watching the hundreds of testimonials being captured and posted on YouTube as part of the VAXXED bus tour. This is perhaps THE MOST IMPORTANT story in medicine right now. The public needs to know whether vaccines are safe for each and every individual. A vaccine schedule that has accelerated from 12 to 72 vaccines in the last 30 years

without any collective research as to the possible effects of not just Mercury and aluminum, not just the additives like polysorbate 80 and mono sodium glutamate, but the viral strains themselves. Presuming viruses as static entities, unable to mutate into more dangerous and virulent strains denies all we know and have learned about infectious disease in the last 300 years. Finally, Dr. Paul Offit, an apostle of the darkest nature, who has done more damage to scientific discovery and public health than any medical professional in history, who states that you can safely have 10,000 vaccines on the same day (revised from his original 'scientific' estimate of 100,000), I say 'TRY IT YOURSELF'!

If you believe that autism is a mysterious condition with no known cause, or that autism is strictly a genetic disease, or that it has been proven conclusively that vaccines don't cause autism, then you need to read this book! Dr. Lyons-Weiler, an evolutionary geneticist with a strong background in molecular medicine, proteomics and systems biology, is the ideal person to answer the question: what causes autism? In this book, you will learn not only of the myriad genetic variants linked to autism, but also, more importantly, of the various environmental factors that play at least as important a role as genetics. Some examples -- the inhaler terbutaline used to treat asthma, valproic acid used to treat seizures, acetaminophen to curb fever, especially following vaccination, and glyphosate, the active ingredient in the pervasive herbicide, Roundup. Lyons-Weiler also discusses the evidence supporting a link between vaccines and autism, particularly the controversial MMR vaccine. He emphasizes the connection between gut dysbiosis and autism, and proposes that peptides entering the brain cause autoimmune responses that result in inflammation leading to brain injury. This book is very accessible to the general audience while at the same time being comprehensive and well documented, with a long list of references to the research literature to back up his claims and inform the scholar who wants to probe more deeply into the topic. This book is arguably the most comprehensive resource available today to answer the mystery of autism.

This was a very extensive look at the past and present research on autism. I thought the emphasis on vaccines was excessive. There were some points in the book where I felt like saying "I got it. Vaccines have a lot of toxic ingredients. Now can we please cover some other environmental influences even half as much as you are covering vaccines!" I also found it a little weak on how this information can be used to help with treatments. There was more information on prevention.

THE ENVIRONMENTAL AND GENETIC CAUSES OF AUTISM is a comprehensive book that

examines the complex interactions between environmental exposures and an individual's genes that can lead to a diagnosis of autism. I had the opportunity to read the manuscript as well as an advanced copy of this revolutionary book. Except in extremely rare cases, genes alone are not to blame. Without exposure to environmental assaults and toxins, the genes involved in the majority of cases would not have led to autism. The autism epidemic is man made. Citing more than a thousand studies, CAUSES holds nothing back, defying political and corporate pressures to reveal the truth by showing HOW environmental exposures can and do cause autism. This book needs to be read by parents, doctors, pediatricians, politicians, and journalists, and immediate action must be taken to end the epidemic.

Every medical professional and parent should read this book to understand our current autism epidemic. Be brave and think outside the established paradigm! Thank you, Dr. Lyons-Weiler, for presenting the evidence so clearly and for opening up my eyes to many studies and data of which I was unaware! Tina M. Wise, RPh Pediatric hospital pharmacist & mother of an autistic son

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