

Cover image: Upon fertilization, the intracellular calcium ion concentration of the ovum increases, and the cortical granules undergo exocytosis. Released enzymes modify the sperm receptors, such that other sperm can no longer bind to the zona pellucida. From the 20th U.S. edition of *Gray's Anatomy of the Human Body*, published in 1918 (public domain).

Cover design: Sally Kuzma

ISBN 978-1-57331-735-1



PUBLISHED BY THE NEW YORK ACADEMY OF SCIENCES