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Nota di contenuto	Intro -- Preface -- Acknowledgment -- Contents -- List of Figures -- 1: The Question of Life -- Weird Facts and Big Numbers -- From Ignorance to Fascination -- A Biological Primer - Multicellular Organisms -- Smaller, But Still Alive - Unicellular Organisms -- Biochemistry - You Can't Escape It -- Viruses At Last -- Additional Reading -- 2: Families, Forms, and Functions -- Taxonomy and Other Geeky Things -- Virions, the Viral Vehicle -- Alive or Not, Viruses Have a Life Cycle -- Infection and Disease-How Viruses Spread and Do Nasty Things -- Additional Reading -- 3: Ancient or New - On the Origin of Viruses -- We Don't Know Exactly Where We Came From, But We're Here Anyway -- Are Viruses the Chicken or the Egg? -- Hypotheses, Hypotheses, and More Hypotheses -- New Data at Last -- Closer to Home -- Papillomaviruses and Hominid Evolution -- Additional Reading -- 4: Of Predators and Prey -- Viral Infections - The Good, the Bad, and the Ugly -- Influenza - More Than Just Bad Air -- Hepatitis C - The Great Deceiver -- Herpes Varicella-Zoster Virus - Now You See It, Now You Don't -- Polyomaviruses and Anelloviruses - Predators or Passengers? -- Additional Reading -- 5: Immunity, Immunity, Immunity -- The Big Three -- Intrinsic Immunity - Always There When We Need It -- Innate Immunity - Locked and Loaded -- Adaptive Immunity - The Gift That Keeps on Giving -- Additional Reading -- 6: Viruses That Shaped Our World -- Smallpox - Mankind's

First Viral Conquest -- Polio - A Force for Change -- HIV/AIDS - A New Pandemic for the Twentieth Century and Beyond -- Additional Reading -- 7: SV40 - An Obscure Monkey Virus and the Golden Age of Molecular Biology -- Viruses, Viruses, and More Viruses -- Polio Vaccines and A Stealth Simian Virus -- To Be or Not To Be - Is SV40 a Human Tumor Virus? -- The SV40 Revolution -- p53 - The Guardian of the Genome.

Asilomar and the Birth of Biosafety -- Additional Reading -- 8: Viral Cancer -- The Infectious Beginnings of Cancer Research -- The Oncogene Revelation -- Human Retroviruses at Last -- Herpesviruses Turn Oncogenic -- Hepatitis Viruses and Hepatocellular Carcinoma -- Human Papillomaviruses - Cancer as an STD -- Merkel Polyomavirus - Finally an Oncogenic Human Polyomavirus -- The Seven Deadly Cancer Viruses -- Additional Reading -- 9: The Viruses Within - How Human Are We? -- Adam and EVEs -- HERVs, HERVs, and More HERVs -- Beyond HERVs -- Assailants or Allies? -- The HERVs That Made Us Human -- The Dark Side -- Additional Reading -- 10: Vaccines and the Conquest of Viruses -- The Era of Vaccines -- Vaccinology 101 -- The Road Is Long with Many a Winding Turn -- Anti-Vaxxers: The Force Awakens -- Vaccine Technology - A Glimpse of the Future -- Additional Reading -- 11: New and Emerging Viruses -- One Planet, Many Viruses, Countless Opportunities for Infections -- The Unique Role of Bats -- The Virus-Host Interface -- Once and Future Threats: Influenza and Coronaviruses -- Additional Reading -- 12: Beyond Antibiotics - Are Phages Our Allies? -- From Fact to Fiction -- A Brief History of Phage Therapy -- A Phage Primer -- The Antibiotic Problem -- Phage Therapy Redux -- A Glimpse of the Future -- Additional Reading -- 13: Viruses in Gene Therapy and Cancer Therapeutics -- Gene Therapy Emerges -- From Adversary to Deliveryman - Harnessing Retroviruses for Gene Therapy -- Into The Fray - What Other Viruses Bring to Gene Therapy -- Oncolytic Viruses - Pitting One Killer Against Another -- Additional Reading -- Epilogue -- Index.
