<table>
<thead>
<tr>
<th>Year</th>
<th>Microbiology</th>
<th>World</th>
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</thead>
<tbody>
<tr>
<td>1676</td>
<td>Leeuwenhoek first to see and describe microbes</td>
<td>Ice cream becomes popular</td>
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<td></td>
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<td>Stradivari making instruments</td>
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<td></td>
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<td>Newton works on physics</td>
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<td></td>
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<td>Dodo becomes extinct (1680)</td>
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<tr>
<td>1688</td>
<td>Redi: spontaneous generation</td>
<td>Shakespeare writing</td>
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<td></td>
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<td>Kabuki Theater</td>
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<td>Commode gains popularity</td>
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<tr>
<td>1698-99</td>
<td>Jenner: smallpox vaccine  Spallanzani: spontaneous generation</td>
<td>American, French Revolutions</td>
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<td></td>
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<td>Casanova dies</td>
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<td></td>
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<td>Napoleon conquers parts of Europe, Asia, and Africa</td>
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<td>1847-50</td>
<td>Semmelweis: physicians spread disease; introduces antiseptics</td>
<td>Karl Marx: <em>Communist Manifesto</em></td>
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<td>California gold rush</td>
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<td>David Livingston in Africa</td>
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<tr>
<td>1857</td>
<td>Pasteur: microbes responsible for lactic acid fermentation</td>
<td>Dickens, Whitman are writing</td>
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<td>Coke from cocoa beans</td>
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<td></td>
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<td>Suez Canal started</td>
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<tr>
<td>1861</td>
<td>Pasteur: spontaneous generation</td>
<td>American Civil War</td>
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<td>Kansas becomes a state</td>
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<td>1864</td>
<td>Pasteur: pasteurization of wine</td>
<td>Sherman burns Atlanta</td>
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<td>Tolstoy writes <em>War and Peace</em></td>
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<td>1867</td>
<td>Lister: antiseptics in surgery</td>
<td>U.S. buys Alaska from Russia</td>
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<td>Mark Twain writing</td>
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<tr>
<td>1876-77</td>
<td>Koch: anthrax caused by <em>Bacillus anthracis</em>  Tyndall: discontinuous boiling</td>
<td>Bell invents telephone</td>
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<td>Edison working</td>
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<td>1880-01</td>
<td>Pasteur: chicken cholera and anthrax vaccines</td>
<td>Canned fruits and meats in stores</td>
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<td>Electric light</td>
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<td>Cézanne, Renoir, Rodin working</td>
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<td>1887-90</td>
<td>Koch's postulates  Gram stain  Autoclave</td>
<td>Buffalo Bill's Wild West Show</td>
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<td>Brooklyn Bridge</td>
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<td><em>Huckleberry Finn</em></td>
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<td>1890-91</td>
<td>Robert Petri: petri dish  Winogradsky: sulfate and nitrate reducers  Beijerinck: nitrogen fixing nodules</td>
<td>First Sherlock Holmes story</td>
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<td>Chagall, van Gogh painting</td>
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<td>Jack the Ripper kills 6 women</td>
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<td></td>
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<td>George Eastman: Kodak camera</td>
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<td>Global influenza epidemic</td>
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<td>1910</td>
<td>Ehrlich: chemotherapeutics for syphilis</td>
<td>Picasso painting</td>
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<td>World War I (1914)</td>
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<td>1928</td>
<td>Griffith: bacterial transformation</td>
<td>A. Earhart: 1st across Atlantic</td>
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<td>Movie films popular (silent)</td>
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<td>Television broadcasts</td>
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<td>Babe Ruth playing for Yankees</td>
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<td>Year</td>
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<td>Details</td>
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<tr>
<td>1929</td>
<td>Fleming: penicillin</td>
<td>Stock market crash</td>
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<td>St. Valentine's Day Massacre</td>
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<td>1935</td>
<td>Domagk: announces 1st sulfa drugs</td>
<td>Hitler in power</td>
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<td>Rumba popular</td>
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<td></td>
<td></td>
<td>Huey Long assassinated</td>
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<td>1944</td>
<td>Avery: DNA causes transformation</td>
<td>D-Day</td>
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<td>Waksman: streptomycin</td>
<td>Atomic bombs dropped (1945)</td>
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<tr>
<td>1946</td>
<td>Lederberg and Tatum: conjugation</td>
<td>U.N. formed</td>
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<tr>
<td>1952</td>
<td>Hershey and Chase: bacteriophages inject DNA</td>
<td>First H-bomb</td>
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<td>Hank Williams singing</td>
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<td>1953</td>
<td>Watson and Crick: DNA double helix</td>
<td>Miller-Urey prebiotic experiments</td>
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<td>Vietnamese rebels attack Cambodia</td>
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<td>U.S.S.R. explodes H-bomb</td>
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<td>1955</td>
<td>Jacob and Wollman: F plasmid</td>
<td>Rosa Parks, Alabama bus boycott</td>
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<td>Einstein and Fleming die</td>
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<td>1961</td>
<td>Jacob and Monod: operon</td>
<td>JFK: inaugurated, Bay of Pigs</td>
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<td>Berlin Wall constructed</td>
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<td>Sputnik</td>
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<td>1961-66</td>
<td>Genetic code elucidated</td>
<td>U.S. in Vietnam</td>
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<td>1st artificial heart during surgery</td>
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<td>Thalidomide babies</td>
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<td>JFK assassinated</td>
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<td>1970</td>
<td>Restriction endonucleases</td>
<td>Biafra capitulates to Nigeria</td>
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<td>Reverse transcriptase</td>
<td>Gold drops below $35/oz</td>
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<td>Apollo 13 launched</td>
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<td>1973</td>
<td>Ames test</td>
<td>Vietnam war ends</td>
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<td>Watergate</td>
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<td>Arab oil embargo</td>
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<td>1975-77</td>
<td>Woese: rRNA phylogeny; 3 Domains; archaeabacteria</td>
<td>Nixon resigns</td>
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<td>Jimmy Hoffa disappears</td>
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<td></td>
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<td>Haile Selassie dies</td>
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<tr>
<td>1982</td>
<td>Cech and Altman: catalytic RNA</td>
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<tr>
<td>1984</td>
<td>Mullis: polymerase chain reaction</td>
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