

# Training Resources

Training Resource	Details
<p>Gen Epi Resources  <a href="https://czgenepi.org/resources">https://czgenepi.org/resources</a></p>	<p>Allison Black, affiliated with the Chan-Zuckerberg Initiative, hosts a 15-week webinar on the foundations of genomic epidemiology:</p> <ul style="list-style-type: none"> <li>Week 1: Mutations, substitutions, and genetic divergence trees.</li> <li>Week 2: Molecular clocks and temporally-resolved trees.</li> <li>Week 3: Phylogeography and trait reconstruction on trees.</li> <li>Week 4: Under the hood with Nextstrain.</li> <li>Week 5: Consensus genome quality control.</li> <li>Week 6: Genomic surveillance data management.</li> <li>Week 7: Phylogenetic nomenclature systems.</li> <li>Week 8: Sampling design in genomic epidemiology.</li> <li>Week 9: Phylodynamic analysis.</li> <li>Week 10: Aspen demo + phylogenetic placements.</li> <li>Week 11: Antigenic evolution.</li> <li>Week 12: Phylogenetic placements versus phylogenetic trees.</li> <li>Week 13: Introduction to genomic epi of TB</li> <li>Week 14: Local cases studies in using genomic epidemiology.</li> <li>Week 15: Genomic epidemiology of mumps virus.</li> </ul> <p>CZ Gen Epi Tutorial: This tutorial introduces self-serve tree building in CZ Gen Epi, and discusses what the different tree types are useful for.</p>
<p>Viruses and Vaccines Seminar “SARS-COV-2 evolution in light of Omicron”  <a href="https://www.youtube.com/watch?v=Nd9Kk79jauI">https://www.youtube.com/watch?v=Nd9Kk79jauI</a></p>	<p>Trevor Bedford presents Viruses and Vaccines Seminar at Brotman Baty Institute on “SARS-CoV-2 evolution in light of Omicron”</p>
<p>Wellcome Connecting Science  <a href="https://www.futurelearn.com/partners/wellcome-genome-campus">https://www.futurelearn.com/partners/wellcome-genome-campus</a></p>	<p>UK-based programme providing open postgraduate courses and conferences focused on biomedicine.</p>
<p>COVID-19 Genomic Epidemiology Toolkit  <a href="https://www.cdc.gov/amd/training/covid-19-gen-epi-toolkit.html">https://www.cdc.gov/amd/training/covid-19-gen-epi-toolkit.html</a></p>	<p>CDC’s Advanced Molecular Detection COVID-19 Gen EPI toolkit consists of 3 parts.</p> <ul style="list-style-type: none"> <li>Part 1: Introduction</li> <li>Part 2: Case studies</li> <li>Part 3: Implementation</li> </ul>

<p>Epidemiology for Public Health Specialization  <a href="https://www.coursera.org/specializations/public-health-epidemiology?utm_source=gg&amp;utm_medium=sem&amp;utm_campaign=27-EpidemiologyforPH-Imperial-US&amp;utm_content=B2C&amp;campaignid=16738014393&amp;adgroupid=133004444537&amp;device=c&amp;keyword=epidemiology%20and%20public%20health&amp;matchtype=b&amp;network=s&amp;devicemodel=&amp;adpostion=&amp;creativeid=590764129843&amp;hide_mobile_promo&amp;gclid=EAlaIqobChMluc-h3cqj9wIVDsLCBB2X1wfKEAAYAiAAEgKZ-fD_BwE">https://www.coursera.org/specializations/public-health-epidemiology?utm_source=gg&amp;utm_medium=sem&amp;utm_campaign=27-EpidemiologyforPH-Imperial-US&amp;utm_content=B2C&amp;campaignid=16738014393&amp;adgroupid=133004444537&amp;device=c&amp;keyword=epidemiology%20and%20public%20health&amp;matchtype=b&amp;network=s&amp;devicemodel=&amp;adpostion=&amp;creativeid=590764129843&amp;hide_mobile_promo&amp;gclid=EAlaIqobChMluc-h3cqj9wIVDsLCBB2X1wfKEAAYAiAAEgKZ-fD_BwE</a></p>	<p>Coursera presents specialized courses that help master skills that help with the conduct and critically assess research in epidemiology.</p>
<p>Future Learn  <a href="https://www.futurelearn.com/">https://www.futurelearn.com/</a></p>	<p>Future Learn has some data science and basic programming courses</p>
<p>Allison Black's Gen Epi Handbook  <a href="https://alliblk.github.io/genepi-book/">https://alliblk.github.io/genepi-book/</a></p>	<p>An applied genomic epidemiological handbook</p>

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