



Barnaby Edward Young

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Research Interests:

- Respiratory Viruses
- Clinical Trials
- Immunology and Vaccines

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Biography

Dr Young graduated from Cambridge University in 2005. After foundation medical postings in the UK he moved to Singapore in 2007 and undertook infectious diseases specialist training at the Communicable Disease Centre in Singapore from 2010 to 2014. He completed a Masters in Infectious Disease from the University of London and London School of Hygiene and Tropical Medicine in 2016. Dr Young studied for a PhD at the Lee Kong Chian School of Medicine, Nanyang Technological University from 2017-2021. His thesis, supervised by Prof Annelies Wilder-Smith and A/Prof Yeo Tsin Wen, investigates how to improve year-round protection against influenza in Singapore.

Selected Publications

- Tan CW, Chia WN, Chen MIC, Hu Z, Young BE, Tan YJ, Yi Y, Lye DC, Anderson DE, Wang LF. A SARS-CoV-2 surrogate virus neutralization test (sVNT) based on antibody-mediated blockage of ACE2-spike (RBD) protein-protein interaction. *Nat Biotechnol.* 2020; 38(9):1073-1078. doi: 10.1038/s41587-020-0631-z. PMID: 32704169. <https://www.researchsquare.com/article/rs-24574/v1>.
- Young BE... Lye DC, Ng LFP. Effects of a major deletion in the SARS-CoV-2 genome on the severity of infection and the inflammatory response: an observational cohort study. *Lancet.* 2020; 396(10251):603-611. doi: 10.1016/S0140-6736(20)31757-8. PMID: 32822564. <https://pubmed.ncbi.nlm.nih.gov/32822564/>.
- Young BE, Ong SWX, Kalimuddin, Low JG, Tan SY... Lye DCB, Singapore 2019 Novel Coronavirus Outbreak Research Team. Epidemiologic Features and Clinical Course of Patients Infected with SARS-CoV-2 in Singapore. *JAMA.* 2020; 323(15):1488-1494. doi: 10.1001/jama.2020.3204. PMID: 32125362. <https://pubmed.ncbi.nlm.nih.gov/32125362>.
- Ng OT, Marimuthu K, Chia PY, Koh V, Chiew CJ, Wang LD, Young BE et al. SARS-CoV-2 infection among travelers returning from Wuhan, China. *N Engl J Med.* 2020; 382(15):1476-1478. doi: 10.1056/NEJMc2003100. <https://pubmed.ncbi.nlm.nih.gov/32163698/>.

- Pung R, Chiew CJ, Young BE et al. Investigation of Three Clusters of COVID-19 in Singapore: Implications for Surveillance and Response Measures. *Lancet*. 2020; 395(10229):1039-1046. doi: 10.1016/S0140-6736(20)30528-6. PMID: 32192580. <https://pubmed.ncbi.nlm.nih.gov/32192580/>.

Notable Research Awards & Grants From Past 5 Years

Name of Awards & Grants	Year Obtained
NHG Thematic Grant for “Tropical influenza control strategies for the elderly (TROPICS1)”	2016
NHG-LKCMedicine Clinician-Scientist Fellowship (CSF)	2017
National Medical Research Council (NMRC) Research Training Fellowship (RTF) for “A Randomised Controlled Trial of Annual versus Six-Monthly influenza vaccination in the Elderly”	2017
RIE2020 Collaborative CG Seed Funding for “A multi-centered prospective study to detect and characterise 2019 Novel Coronavirus (2019-nCoV)”	2020
NMRC COVID-19 Research Fund for “Understanding the clinical features and immune-pathogenesis of COVID-19”	2020
NMRC COVID-19 Research Fund for “ACTIV-3: Therapeutics for Inpatients with COVID-19”	2020

Translating Research Into Healthcare

- Singapore researchers discover new COVID-19 variant which causes milder infections. *The Straits Times*. Published 21 August 2020.
<https://www.straitstimes.com/singapore/health/singapore-researchers-discover-new-covid-19-variant-which-causes-milder-infections>
- Singapore scientists find coronavirus variant with milder infections. *TODAY Online*. Published 21 August 2020.
<https://www.todayonline.com/singapore/singapore-scientists-find-coronavirus-variant-milder-infections>
- Singapore researchers discover milder COVID-19 strain, opening up new avenues for treatment and vaccine development. *Channel NewsAsia Online*. Published 21 August 2020.
<https://www.channelnewsasia.com/news/singapore/singapore-researchers-milder-covid-19-strain-new-avenues-vaccine-13041142>
- Singapore researchers discover new COVID-19 variant which causes milder infections. *The Business Times Online*. Published 21 August 2020.
<https://www.businesstimes.com.sg/government-economy/singapore-researchers-discover-new-covid-19-variant-which-causes-milder>
- Singapore team discovers gene mutation that leads to less severe infection. *Channel 5 News 5 Tonight*. Published 21 August 2020.

<http://www.mediaportal.com/mp/playnow.aspx?u=150718&p=1524079358&key=2015814111313312588111841751215929207231198>

- Singapore team discovers gene mutation that leads to less severe infection. *Channel News Asia Singapore Tonight*. Published 21 August 2020.
<http://www.mediaportal.com/mp/playnow.aspx?u=150718&p=1524042515&key=8221311319919822685195282022121896176165168>
- Scientists find coronavirus variant with milder infections. *Suria (Berita)*. Published 21 August 2020.
<http://www.mediaportal.com/mp/playnow.aspx?u=150718&p=1524042542&key=12622118225208169132641361601381914140130118>
- Scientists find coronavirus variant with milder infections. *Vasantham TV News*. Published 21 August 2020.
<http://www.mediaportal.com/mp/playnow.aspx?u=150718&p=1524043501&key=230182817423334307111310519713417554113222>
- Scientists find coronavirus variant with milder infections. *CNA938 (Evening) Radio News*. Published 21 August 2020.
<http://www.mediaportal.com/mp/playnow.aspx?u=150718&p=1523887303&key=21340642345873115235179984182301546124>
- Singapore researchers discover milder COVID-19 strain. *95.8FM Evening Radio News*. Published 21 August 2020.
<http://www.mediaportal.com/mp/playnow.aspx?u=150718&p=1523851758&key=3411771420214597196129127251243714513797>
- S'pore team discovers gene mutation that leads to less severe infection. *Channel 8 News*. Published 21 August 2020.
- S'pore scientists find milder variant of COVID-19 virus. *The Straits Times*. Published 22 August 2020.
- Singapore researchers discover new COVID-19 variant which causes milder infections. *The Business Times*. Published 22 August 2020.
<http://article.isentia.asia/viewarticles/default.aspx?acc=0Er0tlrxF64=&app=n7q0r37qA1l=&file=6d0qwdrO3DnmGTma6xGIHospHfsjd3HBhe03LQtjgXRIGDXPmUZWw==>
- Mutated COVID-19 with less lethality found locally. *Lian He Zao Bao*. Published 22 August 2020.
- Local researcher finds mutated COVID-19 virus that is less lethal. *Lian He Wan Bao*. Published 22 August 2020.
<http://article.isentia.asia/viewarticles/default.aspx?acc=m6hO/uKTzy4=&app=n7q0r37qA1l=&file=6d0qwdrO3Dn0HYzeVNVGfmdCRIGHcPioUWDd/o+dX2UNaqn7nU48Jg==>