Rate  $[\mathrm{Gpc}^{-3}\,\mathrm{yr}^{-1}]$  $10^{-3}$  $10^{-1}$  $10^1$  $10^{3}$  $10^{-2}$  $10^0$  $10^2$  $10^4$  $10^5$ Gravitational waves GWTC-2, Abbott et al. (2020f) Short gamma-ray bursts Coward et al. (2012)Petrillo et al. (2013) Fong et al. (2015) Della Valle et al. (2018) Jin et al. (2018) Zhang et al. (2018) Dichiara et al. (2020) Kilonovae Jin et al. (2016)Doctor et al. (2017), DES Kasliwal et al. (2017), PTF Smartt et al. (2017), ATLAS Yang et al. (2018), DLT40 Andreoni et al. (2021), ZTF Galactic double neutron stars O'Shaughnessy and Kim (2009) Kim et al. (2015) 🖊 Pol et al. (2020) Isolated binary evolution Ghodla et al. (2021) Tang et al. (2020) Eldridge et al. (2019) Mennekens and Vanbeveren (2014) Kruckow et al. (2018) Neijssel et al. (2019) Vigna-Gómez et al. (2018) Artale et al. (2019) Santoliquido et al. (2020) Giacobbo and Mapelli (2020) Baibhav et al. (2019) Santoliquido et al. (2021) • Giacobbo and Mapelli (2018) Mapelli and Giacobbo (2018) Boco et al. (2019) Lipunov and Pruzhinskaya (2014) Klencki et al. (2018) Chruslinska et al. (2019) Chruslinska et al. (2018) Belczynski et al. (2020) Belczynski et al. (2018) Dominik et al. (2015) de Mink and Belczynski (2015) ( O'Shaughnessy et al. (2010) Oléjak et al. (2021) **Triples** Hamers and Thompson (2019) Globular clusters Ye et al. (2020) ightharpoonup Belczynski et al. (2018a) Lee et al. (2010) • Bae et al. (2014) Samsing et al. (2014) Nuclear star clusters ✓ Petrovich and Antonini (2017) Belczynski et al. (2018a)  $lap{\bullet}$  Antonini and Perets (2012) McKernan et al. (2020) Wang et al. (2020) Young/Open stellar clusters Santoliquido et al. (2020) Ziosi et al. (2014)  $10^5$  $10^{-2}$  $10^{-1}$  $10^0$  $10^2$  $10^3$  $10^4$ Rate  $\left[\mathrm{Gpc}^{-3}\,\mathrm{yr}^{-1}\right]$