

**Supplementary Table 2.** Annotation tools reviewed

Annotation tool	URL
Anafora	<a href="https://github.com/weitechen/anafora">https://github.com/weitechen/anafora</a>
Argo	<a href="http://argo.nactem.ac.uk">http://argo.nactem.ac.uk</a>
BioQRator	<a href="http://www.bioqrator.org">http://www.bioqrator.org</a>
Brat	<a href="https://brat.nlplab.org">https://brat.nlplab.org</a>
Callisto	<a href="https://mitre.github.io/callisto">https://mitre.github.io/callisto</a>
Djangology	<a href="https://sourceforge.net/projects/djangology">https://sourceforge.net/projects/djangology</a>
Doccano	<a href="http://doccano.herokuapp.com">http://doccano.herokuapp.com</a>
eHost	<a href="https://github.com/chrisleng/ehost">https://github.com/chrisleng/ehost</a>
ezTag	<a href="https://eztag.bioqrator.org">https://eztag.bioqrator.org</a>
GATE	<a href="https://gate.ac.uk/teamware">https://gate.ac.uk/teamware</a>
Inception	<a href="https://inception-project.github.io">https://inception-project.github.io</a>
Knowtator	<a href="https://protegewiki.stanford.edu/wiki/Knowtator">https://protegewiki.stanford.edu/wiki/Knowtator</a>
Lighttag	<a href="https://www.lighttag.io">https://www.lighttag.io</a>
MAE	<a href="http://keighrim.github.io/mae-annotation">http://keighrim.github.io/mae-annotation</a>
Pubtator	<a href="https://www.ncbi.nlm.nih.gov/research/pubtator">https://www.ncbi.nlm.nih.gov/research/pubtator</a>
Slate	<a href="https://github.com/jkkummerfeld/slate">https://github.com/jkkummerfeld/slate</a>
Tagtog	<a href="https://www.tagtog.net">https://www.tagtog.net</a>
WebAnno	<a href="https://webanno.github.io/webanno">https://webanno.github.io/webanno</a>
Yedda	<a href="https://github.com/jiesutd/YEDDA">https://github.com/jiesutd/YEDDA</a>