## Online Supplementary file 3 – Data extraction form

Data items extracted from each processed article during the full-text scoping review, and associated qualifications for each item.

Item	Qualifications	
Authors		
Title		
Journal		
Volume		
Issue	(if applicable)	
Pages	(if applicable)	
Year		
Location		
URL / DOI		
Type of publication	<ul> <li>Research article</li> <li>Meeting abstract</li> <li>Review</li> </ul>	
Study population and sample size	(if applicable)	
Methodology / Study Design	<ul> <li>Case-control study</li> <li>Cases only stratification study</li> <li>(+ further qualification, e.g. treatment response prediction, tumor subtype categorization, recurrence/relapse prediction, survival prediction, tissue-of-origin prediction)</li> </ul>	
Outcome assessment	<ul> <li>Performance measures (e.g. accuracy, sensitivity, specificity, Kohen's Kappa, F-score, AUC)</li> <li>Validation scheme (cross-validation approach, external validation approach, single cohort or multiple cohorts)</li> </ul>	
Generic machine learning category	<ul> <li>Supervised learning</li> <li>Unsupervised learning</li> <li>Other / mixed approaches</li> </ul>	
Name of specific machine learning approach	(if applicable)	

Main results / key findings that relate to the research questionshort descript	ion
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