

Table 3. Defined Approach (DA) performance in predicting human hazard (sensitizer/non-sensitizer).

Predicting Human Hazard

Defined Approach:	BASF 2/3 (DKH)	Kao STS	Kao ITS	ICCVAM SVM (Human)	Shiseido ANN (D_hC)	Shiseido ANN (D_hC_KS)	P&G BN ITS-3	LLNA
<i>N</i>	127	126	120	120	126	126	119	128
Accuracy (%)*	77.2	80.2	85.0	81.7	78.6	78.6	75.6	74.2
Sensitivity (%)	79.3	97.7	93.8	86.4	95.4	100	81.3	85.2
Specificity (%)	72.5	41.0	66.7	71.8	41.0	30.8	64.1	50.0
BA (%)	75.9	69.4	80.3	79.1	68.2	65.4	72.7	67.6

*Performance is shown against the maximum subset (*N*) out of 128 substances with all necessary DA features.

BA: balanced accuracy; STS: sequential testing strategy; ITS: integrated testing strategy; SVM: support vector machine; ANN: artificial neural network; BN: Bayesian network; DKH and D_hC_KS: DPRA/h-CLAT/KeratinoSensTM; D_hC: DPRA/h-CLAT.