

**Table 2**

Two machine learning algorithms - Support Vector Machine (SVM) and Neural Network (NN) - were implemented through the function call *MLearn* (of R package *MLInterfaces*). SVM was applied with default parameters. Neural Network applied with three nodes in the hidden layer, with weight decay set to 0.5. Ten-fold cross-validation was performed by generating a partition function (for cross-validation, where the partitions are approximately balanced with respect to the distribution of cancer tissue types (SLC or CA) in training and test sets in each fold. Confusion matrix from the classifier output was collected for calculation of misclassification rates.

<b>Support Vector Machine</b>		<b>Predicted</b>	
		<b>SLC</b>	<b>CA</b>
<b>Given</b>	<b>SLC</b>	171	37
	<b>CA</b>	22	415

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Misclassification rate      9.15%

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<b>Neural Network</b>		<b>Predicted</b>	
		<b>SLC</b>	<b>CA</b>
<b>Given</b>	<b>SLC</b>	179	29
	<b>CA</b>	23	414

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Misclassification rate      8.06%

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