**Title:** **Deep Learning-Enabled SERS Spectroscopic Identification of Pathogen.**

**3. Result and discussion**

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| --- |
| Fig 2 label和free的对比 |
|  |

3.3 深度学习模型详细示意图

|  |
| --- |
| Fig 3 |
| AM-CNN模型详解1，2 |

3.4 深度学习模型对10种细菌及耐药菌株分类结果（革兰氏分类，菌种分类，菌株分类，耐药分类）

|  |  |
| --- | --- |
| Fig 4（全部使用label数据出图） | |
| 损失和精确度曲线The loss and accuracy curves3 | 混淆矩阵4，5 |
| ROC曲线4 | 深度学习分类散点图3      其实你之前做的分类图比我找到的更好，就那样做就行，再漂亮一些就是三维立体的分类图，但是重要的还是数据能分得开。 |

3.5 与传统的机器/深度学习模型进行性能比较（支持向量机svm、残差网络ResNet、随机森林、cnn、LDA、K临近）

|  |
| --- |
| Fig 5 |
| 损失和精确度曲线The loss and accuracy curves/混淆矩阵/ ROC曲线等展示 |
| **或**做表格列入数据对比 |

**4. Conclusion**

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