

# Study and evaluation of HiDNA codec

Maria Manuela Areias da Costa Pereira de Sousa  
mpereira@di.ubi.pt

## 1 Objectives

Recently, the JPEG DNA research group started an exploration on the opportunity to develop a specific image coding solution adapted to the technologies of DNA synthesis to compress and store images into DNA-like sequences [1]. Some compression algorithm and coders have been developed specifically for this paradigm of data storage [2], [3], [4]. Two codecs were proposed, one by the I3S Laboratory (HiDNA) and the other by the EPFL university (EPFL\_JPEG\_DNA). This work will consider the study and evaluation of the former, **HiDNA** codec.

## 2 Tasks

**Task 1** Study previous bibliography.

**Task 2** Study and test the HiDNA codec.

**Task 3** Compare with the JPEG DNA proposed anchors.

**Task 4** Results analysis.

**Task 5** Report writing.

## 3 References

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