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AIR: ARTIFICIAL INTELLIGENCE RNASEQ

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We propose a disruptive ICT concept strictly connected to SMEInst: Open Disruptive Innovation Scheme. In the field of genomics, sequencing technologies have drastically changed in the last few years and the output of complex data generated has outpaced the solutions available for analysis, integration and interpretation. RNA Sequencing has emerged as the number one technique in transcriptomics and thus the solution we propose is based on this. A.I.R.: Artificial Intelligence RNASeq is the first easy to use SaaS (Software as a Service) built with solid scientific methods. AIR is able to perform a robust DEG and GEOA analysis with different statistics to solve three important obstacles in the genomics field simultaneously: the informatics problem (specifically data storage, automatization of results and duration of analysis); the scientific problem (data interpretation and data integration, as well as providing new bioinformatics and statistical functions); the social problem (the lack of availability of skilled bioinformaticians). The overall objective of this project is to introduce a disruptive innovation that will allow researchers to perform transcriptomics data analysis easily, quickly and affordably. AIR is accessible at http://transcriptomics.cloud