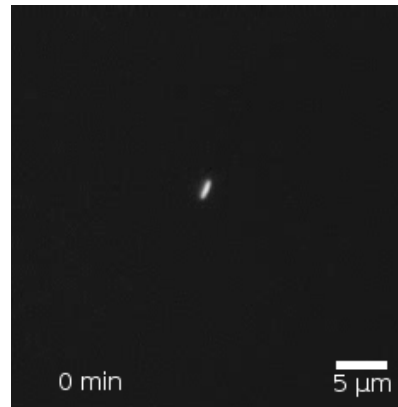




Untreated water samples taken for the biological quantification of population growth. Untreated water sample containing rod shaped **E-coli bacteria** (Escherichia coli) was taken under the evaluation using the **Fluorescence Microscopes - Zeiss AxioVert 200M (ZEISS™ Germany)**. **E-coli Bacteria** detected & microscope (200M) taken multiple frames to express the lineage sequence of bacteria.



Lineage sequence of multiple frames of e coli-bacteria modeled under the following differential equation model. x-denotes the minutes (time) and equation model y-represents number of E-coli bacteria cells. Initial condition of the model is **$y(0)=1$**

$$\frac{dy}{2^x \log_e(2)} = dx$$

After solving the above differential equation solution, the data of **number of E-coli bacteria cells (y)** should be recorded and tabulated for different time instance of **minutes (x)** x=1,2,6,7,8,9,11,12,13,14,15,16,17,18,21,22 (**minutes x**)

Python programming should be executed for data visualization of **Histogram** representation of recorded **number of E-coli bacteria cells** particular distribution in the bin should be considered in choice of Strunge's Rule. Data Visualization of Histogram distribution should be plotted in the relative frequency.

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ISSN: 2583-2611 (online)

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