

Title (en)  
SELF-LEARNED BASE CALLER, TRAINED USING ORGANISM SEQUENCES

Title (de)  
SELBSTERLERNTER, UNTER VERWENDUNG VON ORGANISMUSSEQUENZEN TRAINIERTER BASISANRUFER

Title (fr)  
APPELANT DE BASE AUTO-APPRIIS, ENTRAÎNÉ À L'AIDE DE SÉQUENCES D'ORGANISMES

Publication  
**EP 4364150 A1 20240508 (EN)**

Application  
**EP 22748543 A 20220629**

Priority  

- US 202163216404 P 20210629
- US 202163216419 P 20210629
- US 202217830287 A 20220601
- US 202217830316 A 20220601
- US 2022035567 W 20220629

Abstract (en)  
[origin: WO2023278609A1] A method of progressively training a base caller is disclosed. The method includes initially training a base caller, and generating labelled training data using the initially trained base caller; and (i) further training the base caller with analyte comprising organism base sequences, and generating labelled training data using the further trained base caller. The method includes iteratively further training the base caller by repeating step (i) for N iterations, which includes further training the base caller for N1 iterations of the N iterations with analyte comprising a first organism base sequence, and further training the base caller for N2 iterations of the N iterations with analyte comprising a second organism base sequence. A complexity of neural network configurations loaded in the base caller monotonically increases with the N iterations, and labelled training data generated during an iteration is used to train the base caller during an immediate subsequent iteration.

IPC 8 full level  
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