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(57) Abstract :
The present invention discloses a system for identifying bioactive agents utilizing unbiased machine learning and method thereof. The system includes, but not limited to, a memory which stores instructions; one or more processors attached to the memory wherein the one or more processors, when executing the instructions which are stored, are configured to have: a machine learning interface for determining an event timeline that comprises one or more bioactive agent tethered to a fluorophore associated with a biomolecule; a means adapted to provide a cellular target fused to a bioluminescent reporter with a substrate for the bioluminescent reporter. Further, the machine learning interface is configured for expressing in a cell a fusion of the cellular target and a bioluminescent reporter that emits energy at a first wavelength.

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