

**Texto original:** of research for pharmaceutical companies and chemical scientists.

**Texto plagiado:** of research for pharmaceutical companies and chemical scientists.

**Texto original:** rug design

**Texto plagiado:** rug design

**Texto original:** Drug designing and development is an important area of research for pharmaceutical companies and chemical scientists.

**Texto plagiado:** Drug designing and development is an important area of research for pharmaceutical companies and chemical scientists.

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**Texto original:** low efficacy, off-target delivery, time consumption, and high cost

**Texto plagiado:** low efficacy, off-target delivery, time consumption, and high cost

**Texto original:** However, low efficacy, off-target delivery, time consumption, and high cost impose a hurdle and challenges that impact drug design and discovery.

**Texto plagiado:** However, low efficacy, off-target delivery, time consumption, and high cost impose a hurdle and challenges that impact drug design and discovery.

**Texto original:** drug design and discovery

**Texto plagiado:** drug design and discovery

**Texto original:** data from genomics, proteomics, microarray data, and clinical trials

**Texto plagiado:** data from genomics, proteomics, microarray data, and clinical trials

**Texto original:** drug discovery

**Texto plagiado:** drug discovery

**Texto original:** Further, complex and big data from genomics, proteomics, microarray data, and clinical trials also impose an obstacle in the drug discovery pipeline.

**Texto plagiado:** Further, complex and big data from genomics, proteomics, microarray data,

**and clinical trials also impose an obstacle in the drug discovery pipeline.**

**Texto original: drug discovery**

**Texto plagiado: drug discovery**

**Texto original: discovery p**

**Texto plagiado: discovery p**

**Texto original: drug discovery**

**Texto plagiado: drug discovery**

**Texto original: drug discovery and development**

**Texto plagiado: drug discovery and development**

**Texto original: in drug discovery**

**Texto plagiado: in drug discovery**

**Texto original: drug discovery**

**Texto plagiado: drug discovery**

**Texto original:** Artificial intelligence and machine learning technology play a crucial role in drug discovery and development.

**Texto plagiado:** Artificial intelligence and machine learning technology play a crucial role in drug discovery and development.

**Texto original:** rtificial intelligence and

**Texto plagiado:** rtificial intelligence and

**Texto original:** rtificial intelligence and

**Texto plagiado:** rtificial intelligence and

**Texto original:** and deep learning

**Texto plagiado:** and deep learning

**Texto original:** ing algorithms

**Texto plagiado:** ing algorithms

**Texto original:** In other words, artificial neural networks and deep learning algorithms have modernized the area.

**Texto plagiado:** In other words, artificial neural networks and deep learning algorithms have modernized the area.

**Texto original:** and deep learning

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**Texto original:** ning and de

**Texto plagiado:** ning and de

**Texto original:** drug discovery p

**Texto plagiado:** drug discovery p

**Texto original:** peptide synthesis, structure-based virtual screening, ligand-based virtual screening, toxicity prediction, drug monitoring and release, pharmacophore modeling, quantitative structure–activity relationship, drug repositioning, polypharmacology, and physiochemical activity.

**Texto plagiado:** peptide synthesis, structure-based virtual screening, ligand-based virtual screening, toxicity prediction, drug monitoring and release, pharmacophore modeling, quantitative structure–activity relationship, drug repositioning, polypharmacology, and

**physiochemical activity.**

**Texto original: and deep learning**

**Texto plagiado: and deep learning**

**Texto original: ing algorithms**

**Texto plagiado: ing algorithms**

**Texto original: drug discovery p**

**Texto plagiado: drug discovery p**

**Texto original: achine learning**

**Texto plagiado: achine learning**

**Texto original: and deep learning algorithms have**

**Texto plagiado: and deep learning algorithms have**

**Texto original: Machine learning and deep learning algorithms have been implemented in several drug discovery processes such as peptide synthesis, structure-based virtual screening, ligand-based virtual screening, toxicity prediction, drug monitoring and release, pharmacophore modeling, quantitative structure–activity relationship, drug repositioning,**

polypharmacology, and physiochemical activity.

**Texto plagiado:** Machine learning and deep learning algorithms have been implemented in several drug discovery processes such as peptide synthesis, structure-based virtual screening, ligand-based virtual screening, toxicity prediction, drug monitoring and release, pharmacophore modeling, quantitative structureâ€“activity relationship, drug repositioning, polypharmacology, and physiochemical activity.

**Texto original:** and deep learning

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**Texto original:** rtificial intelligence and

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**Texto original:** and deep learning

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**Texto original:** Evidence from the past strengthens the implementation of artificial intelligence and deep learning in this field.

**Texto plagiado:** Evidence from the past strengthens the implementation of artificial intelligence and deep learning in this field.

**Texto original:** artificial intelligence and deep learning

**Texto plagiado:** artificial intelligence and deep learning

**Texto original:** , novel data mining, curation, and management techniques

**Texto plagiado:** , novel data mining, curation, and management techniques

**Texto original:** ing algorithms

**Texto plagiado:** ing algorithms

**Texto original:** Moreover, novel data mining, curation, and management techniques provided critical support to recently developed modeling algorithms.

**Texto plagiado:** Moreover, novel data mining, curation, and management techniques provided critical support to recently developed modeling algorithms.

**Texto original:** rug design

**Texto plagiado:** rug design



**Texto original: drug design and discovery**

**Texto plagiado: drug design and discovery**

**Texto original: discovery p**

**Texto plagiado: discovery p**

**Texto original: and deep learning**

**Texto plagiado: and deep learning**

**Texto original: drug design and discovery**

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**Texto original: discovery p**

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**Texto original: rtificial intelligence and**

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**Texto original: and deep learning a**

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**Texto original: artificial intelligence and deep learning**

**Texto plagiado: artificial intelligence and deep learning**

**Texto original: In summary, artificial intelligence and deep learning advancements provide an excellent opportunity for rational drug design and discovery process, which will eventually impact mankind.**

**Texto plagiado: In summary, artificial intelligence and deep learning advancements provide an excellent opportunity for rational drug design and discovery process, which will eventually impact mankind.**