

CONCORSO PUBBLICO, PER ESAMI, A N. 1 POSTO DI CATEGORIA D, POSIZIONE ECONOMICA D1, AREA TECNICA, TECNICO-SCIENTIFICA ED ELABORAZIONE DATI, PER LE ESIGENZE DEL DIPARTIMENTO DI ECCELLENZA DI FARMACIA DELL'UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II (COD. RIF. 2331), IN ATTUAZIONE DEL PROGETTO "DIPARTIMENTI DI ECCELLENZA 2023-2027" - CUP E63C22003670006, INDETTO CON DECRETO DEL DIRETTORE GENERALE N. 1480 DEL 14.12.2023;

TRACCE ESTRATTE ALLA PROVA ORALE DEL 5 APRILE 2024

Traccia N. 1

1. Il candidato descriva i principali approcci utilizzati per la sintesi di peptidi.
2. Il candidato illustri come modificare il formato di una cella del programma Microsoft Excel, convertendola in numero con 3 cifre decimali.
3. Il candidato legga e traduca il seguente testo:

"Plants contain a wide variety of naturally occurring organic compounds that are produced and metabolized in their bodies. These compounds include waxes, terpenoids, lipids, phenolic compounds, polar glucosides, alkaloids, sugars, peptides, and various other substances. The most important physiologically active plant compounds include phenolic compounds (including flavonoids), saponins, and cyclins, which play key roles as dietary supplements".

Traccia N. 2

1. Il candidato descriva i principali metodi analitici per la separazione di miscele complesse di origine alimentare/nutraceutica.
2. Il candidato illustri come ordinare una lista di nomi in ordine alfabetico mediante il programma Microsoft Excel.
3. Il candidato legga e traduca il seguente testo:

"Natural phytonutrients are widely distributed and contain a diverse range of compounds with low to high molecular weights. Compounds with strong physiological activities against living organisms have attracted considerable attention from researchers, leading to the exploration of new natural products and structural modifications, particularly in fields such as medicine, pharmaceuticals, and nutraceuticals. Organic compounds obtained from nature serve as dietary supplements that help improve health, delay aging,

prevent chronic disease, prolong life, and support the structure and function of the body.”

Traccia N. 3

1. Il candidato descriva i principali metodi analitici per la separazione di miscele peptidiche.
2. Il candidato illustri come utilizzare lo strumento ‘filtra’ del programma Microsoft Excel.
3. Il candidato legga e traduca il seguente testo:

“The market for dietary supplements was estimated to be approximately USD 353 billion in 2019 and it is growing steadily. Because of the impact of the COVID-19 pandemic, the demand for dietary supplements has increased and was projected to reach approximately USD 561 billion by 2022. Consumers seek health and immune benefits from dietary supplements to protect themselves from infections and diseases. Substances such as antibiotics, chemical preservatives, and alkaloids have been used in the formulation and extraction of bioactive compounds in various food industries, including sugarcane, tea, coffee, and plant extracts.”

**Per ordine del Presidente della Commissione
Il segretario
F.to Dott.ssa Roberta Napolitano**