

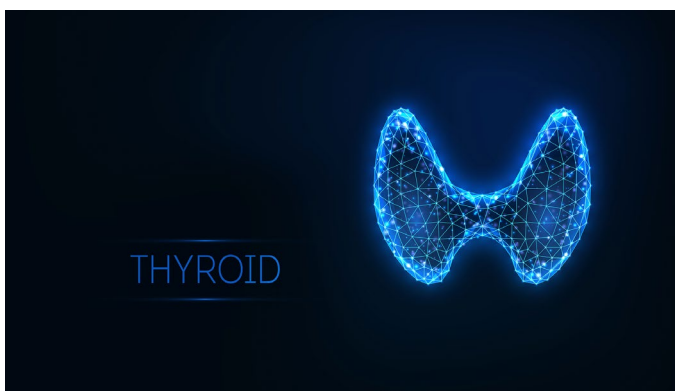
Dipartimento di Biotecnologie e Bioscienze – UNIMIB

Thursday, December 12, 2024, 4:30 p.m., TELLUS-U4 building, room U4-03

Imaging thyroid biology across scales

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Abstract: The thyroid gland is a natural bioreactor that accumulates dietary iodine to synthesise thyroid hormones, crucial for metabolic functions in vertebrates (e.g., growth, development, thermogenesis). Thyroid hormones are made via extracellular iodination of thyroglobulin which then undergoes a complex trafficking pathway before hormones can be released into the bloodstream and reach the target cells, where they undergo an additional layer of regulation. The advance of cryo-electron microscopy and integrative structural biology methods now allows to visualise this system in depth at different scales: from in vitro reconstituted systems to thyroid organoids, both in health and disease.

Host: Bertini – Arrigoni

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