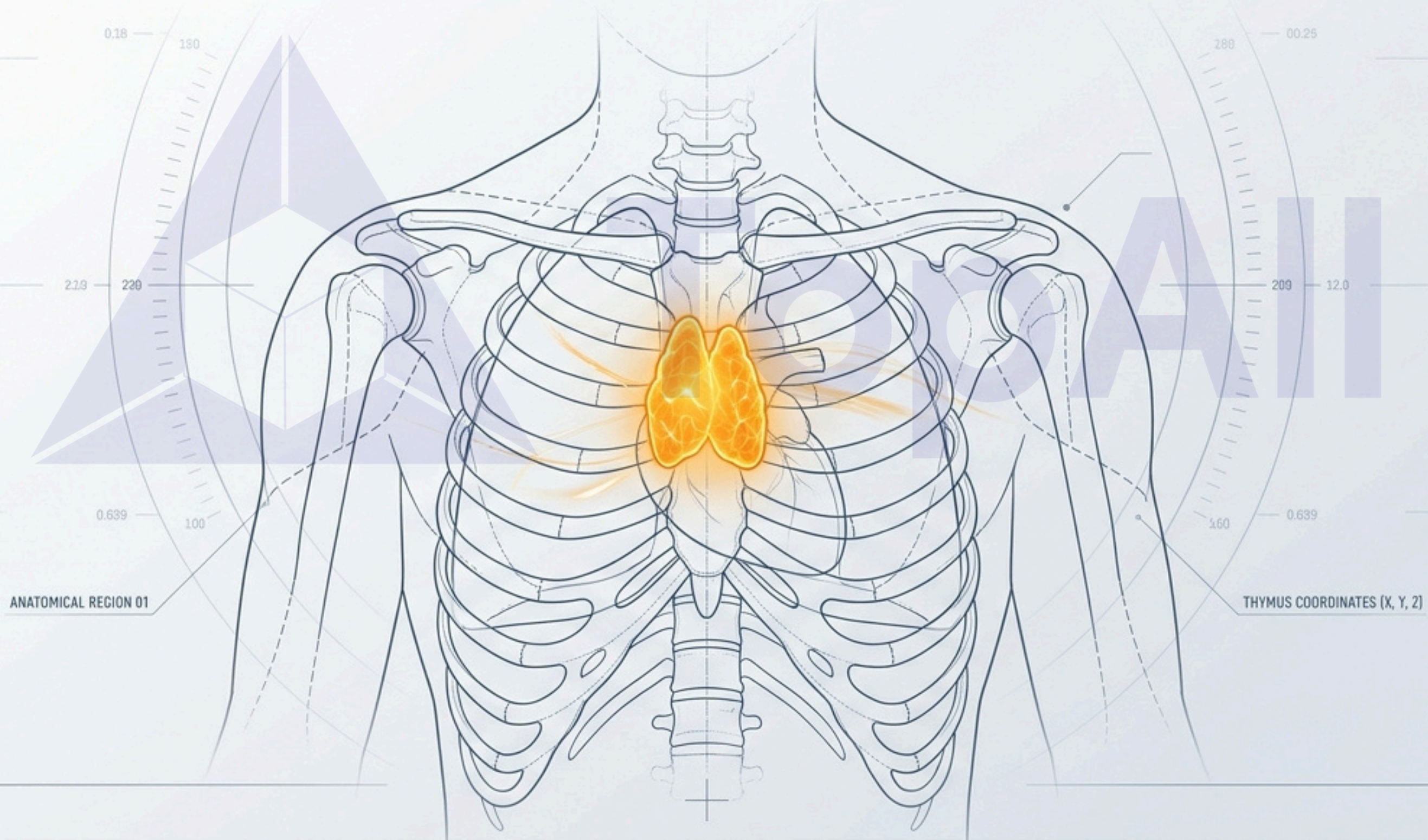
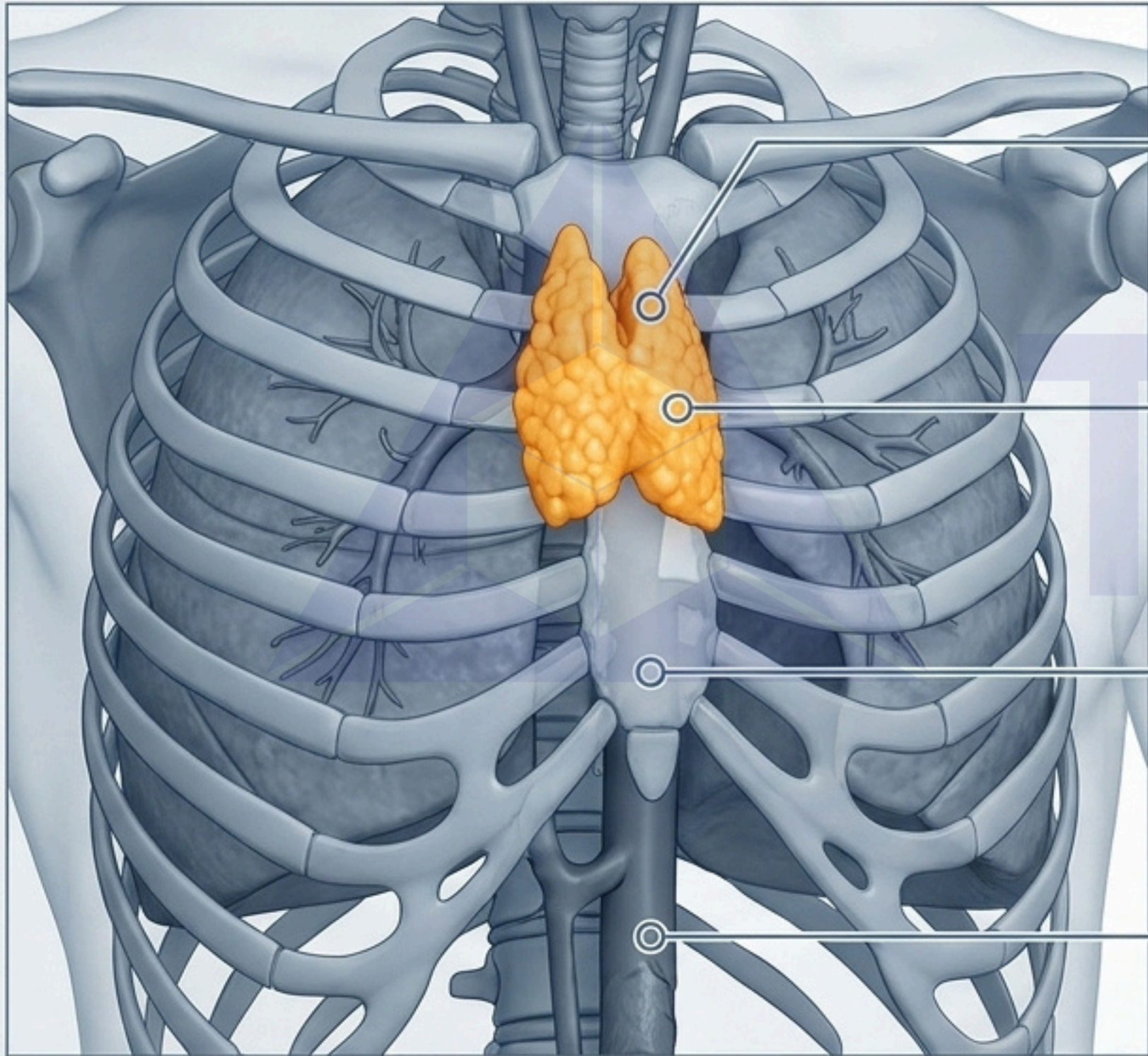


THE HORMONAL TRAINING CENTRE FOR IMMUNITY

Decoding the Anatomy, Function, and Lifecycle of the Human Thymus Gland



STRATEGIC POSITIONING: ANATOMY OF THE THYMUS



STRUCTURE:
Lobular gland

ANTERIOR BOUNDARY:
Located behind the sternum

LATERAL BOUNDARIES:
Positioned between the lungs

POSTERIOR BOUNDARY:
Rests on the ventral side of the aorta

THE CHEMICAL MESSENGERS: PROFILING THYMOSINS



Chemical Profile Card

ENTITY NAME:

THYMOSINS

BIOCHEMICAL CLASS:

PEPTIDE HORMONES

ORIGIN:

SECRETED DIRECTLY BY THE THYMUS GLAND

PRIMARY MISSION:

DRIVING THE DEVELOPMENT AND OPERATIONAL READINESS OF THE HUMAN IMMUNE SYSTEM.



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



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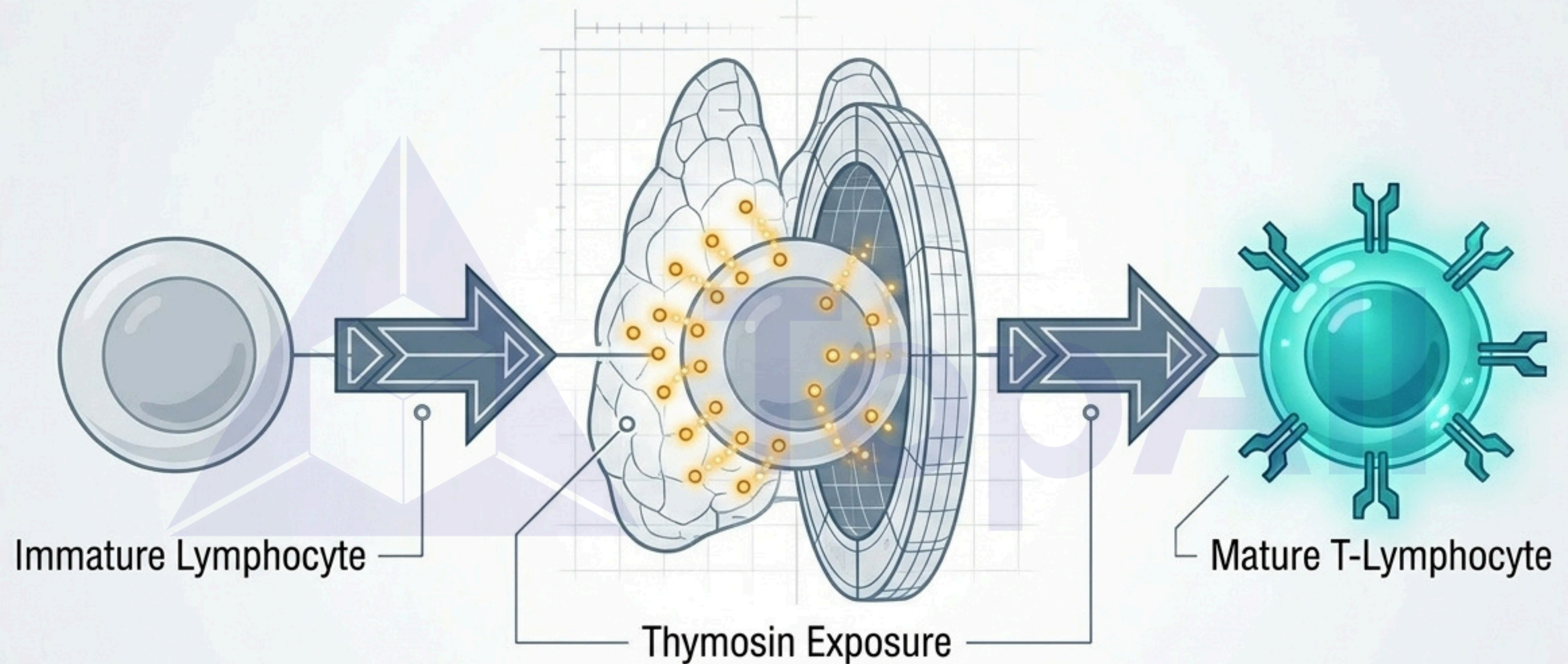
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- » Free Study Material, Videos & Infographics
- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter



THE MATURATION GATEWAY: T-LYMPHOCYTE DIFFERENTIATION

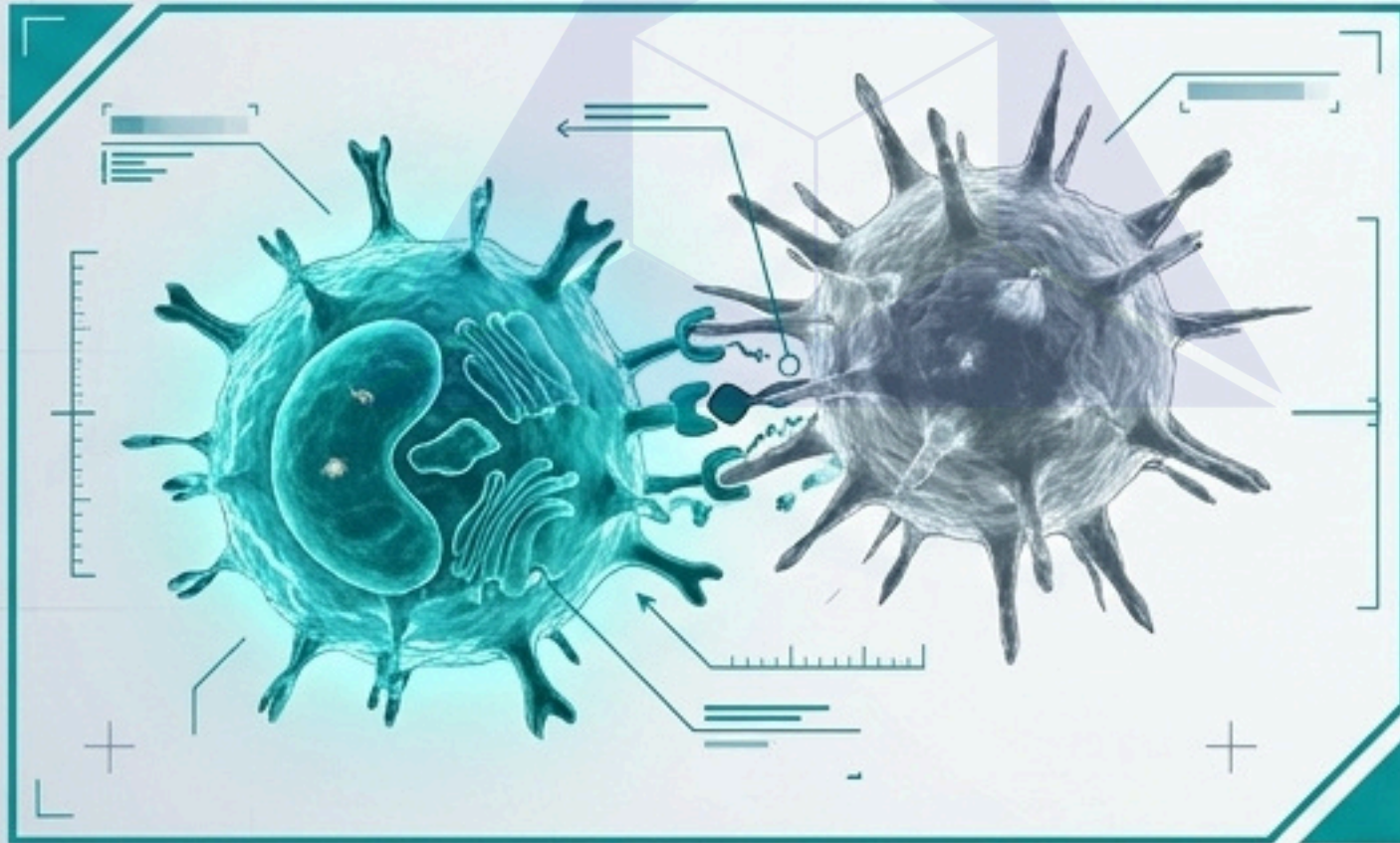


Thymosins dictate the differentiation of T-lymphocytes, transforming baseline cells into targeted immune responders.

DUAL DEPLOYMENT: TWO PRONGS OF IMMUNITY

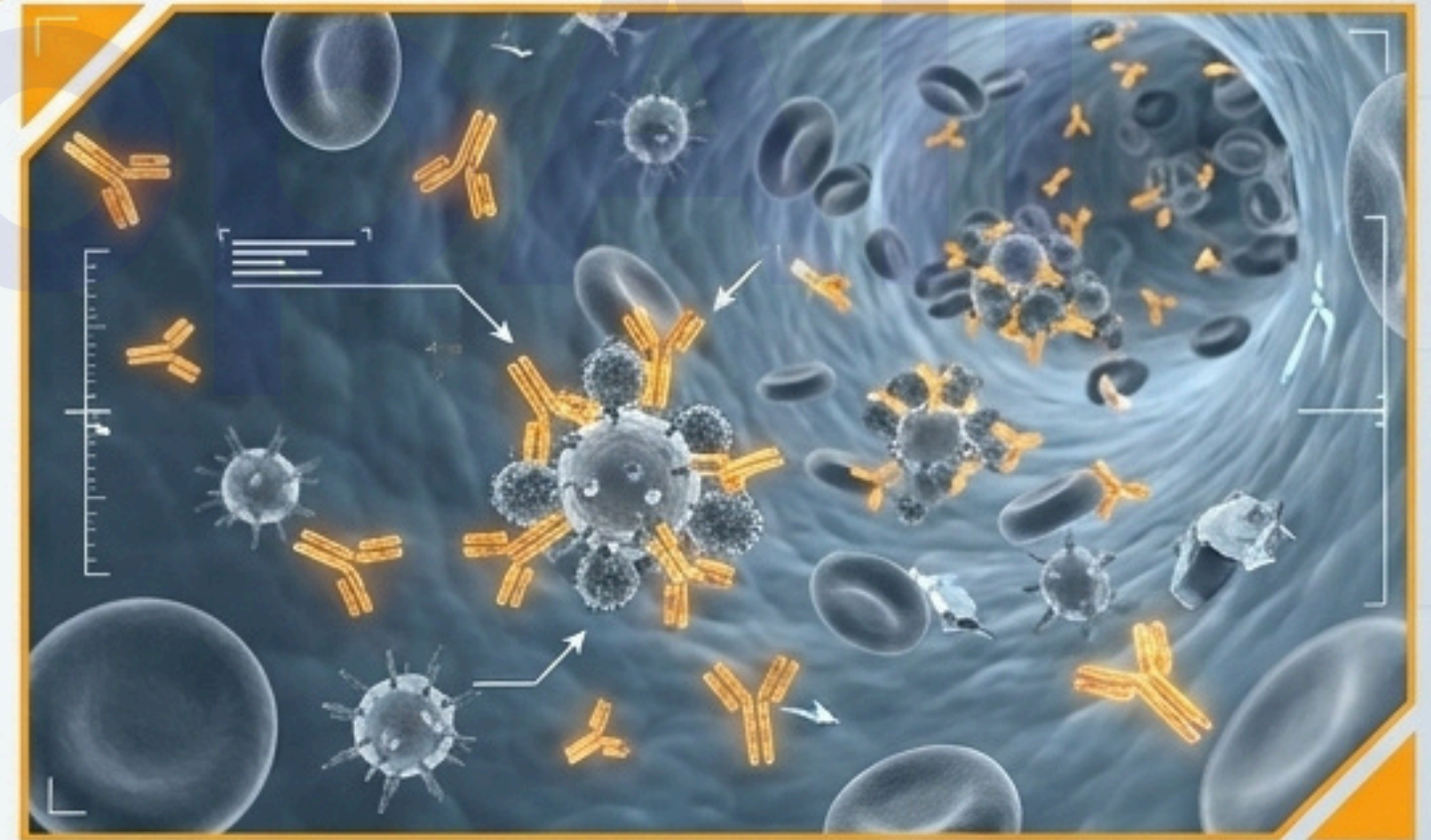
CELL-MEDIATED IMMUNITY

Mechanism: Driven directly by differentiated T-lymphocytes.

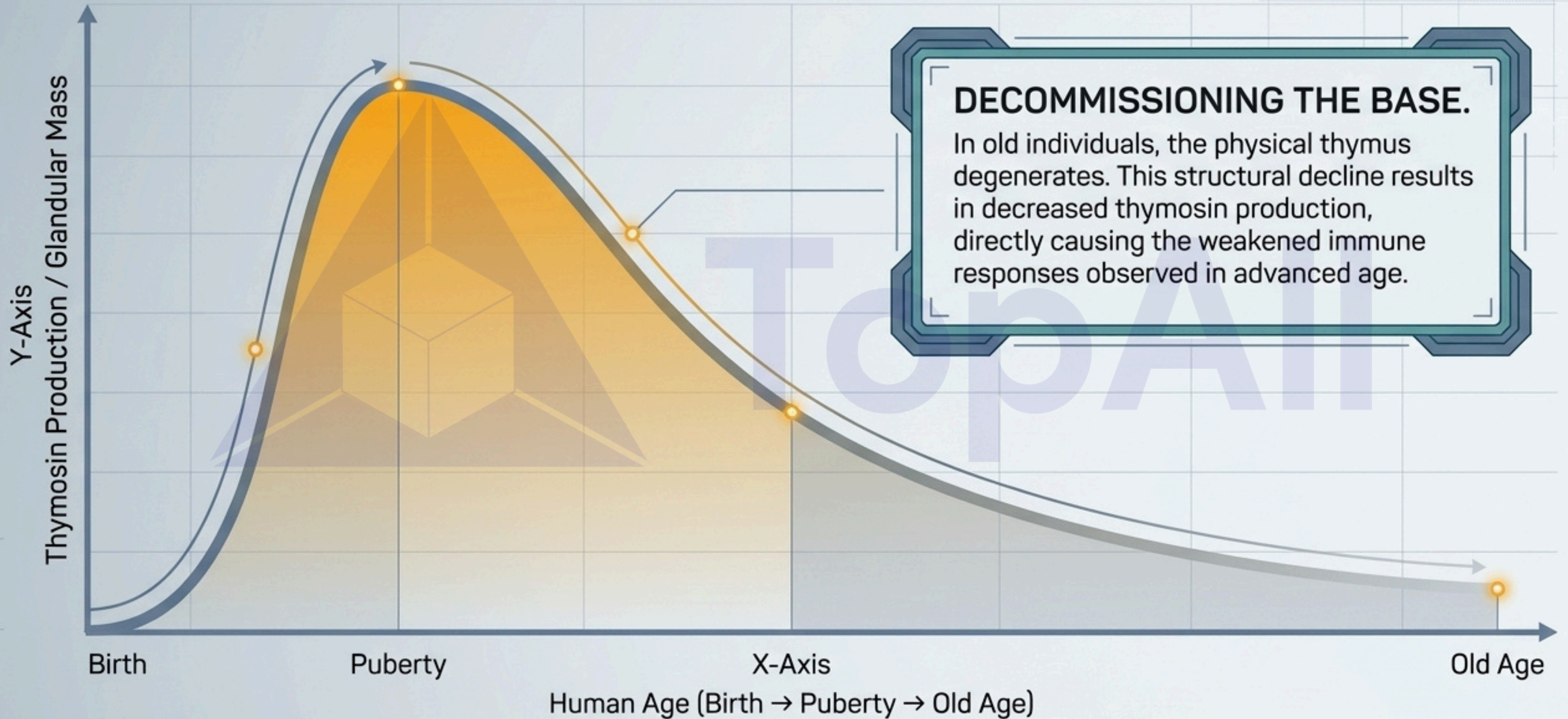


HUMORAL IMMUNITY

Mechanism: Thymosins actively promote the production of antibodies.



SYSTEM DEGRADATION: THE AGING THYMUS





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