TRANSLATIONAL MEDICINE - Tematiche prova scritta XXXIII ciclo

"Basic research":

- 1. Regulation of gene expression;
- 2. Structure/Function in proteins;
- 3. Protein homeostasis, folding and aggregation;
- 4. Membrane transport;
- 5. Mitochondrial function and dysfunction;
- 6. Intercellular communication;
- 7. Cell death;
- 8. Stem cells;
- 9. The cell biology of cancer;
- 10. The biology of ageing;
- 11. Mechanisms of immunity;
- 12. Whole body homeostasis.

"Clinical research":

- 1. Mendelian diseases;
- 2. Epigenetics;
- 3. Cancer genetics;
- 4. Signalling in development and cancer;
- 5. Nanomedicine;
- 6. Next generation sequencing;
- 7. Host-virus relationship and antiviral therapy;
- 8. Immune response to pathogens;
- 9. Brain ageing and neurodegeneration;
- 10. Neurohormonal regulation of the circulation;
- 11. Atherosclerosis and thrombosis;
- 12. Gastrointestinal inflammation and cancer.