

## **Topics for PhD admission 2024**

1. Cardiac action potentials. Ionic channels and ionic currents involved in the genesis and development of cardiac action potentials.
2. Cell cultures. Viability/citotoxicity studies on *in vitro* cell models.
3. Nanomaterials with applications in cardiac dysfunctions.

### **Bibliography:**

- Guyton A.C.; Hall J.E, *Tratat de Fiziologie a omului*, , Ed. a 13-a reviz., Editura Medicală Callisto, București, 2018.
- Pocock G., Richards C.D., Richards D.A., *Human Physiology*, 4<sup>th</sup> Edition, Oxford University Press, 2013.
- Freshney, R. Ian.; *Culture of animal cells : a manual of basic technique and specialized applications*, 6th ed. John Wiley & Sons, New Jersey, 2010.
- Smith, B.R., Edelman, E.R. Nanomedicines for cardiovascular disease. *Nat Cardiovasc Res* 2, 351–367 (2023). <https://doi.org/10.1038/s44161-023-00232-y>

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