

- Title** **FUZZY CONTROLLED SYSTEM FOR HYPOTHERMIC BRAIN THERAPY**
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- Institution** **Nanotechnologies, Chisinau MD-2028, Moldova Republic of**
- Description** Method: It is well known that approximately 50% of heating generated by the human brain is eliminated due to colder flux of the blood in the carotid arteries. Another 50% of heating is evacuated by the surface of the brain which is dissipated to outside using flux of cooled blood at the scalp skin level.
- EN** Results: Devices and technology proposed will have significant impact on the treatment methods of patients with various pathologies and will contribute to the elaboration of new curative treatment technologies. The implementation of local device production has advantages in terms of staff training, quick service and quick maintenance.
- Science impact: development of new therapies for non-

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invasive hypothermia, training biomedical engineering specialists with applications in innovative medicine, stepping up collaboration activities at regional and European level.

- Socio-economic impact: Reducing the intervention time will reduce the rate of complicated cases and will improve the treatment of patients and return them to normal life.