List of candidates for the election of an internal member of the Scientific Board of CEMEA SAS, p.r.i.

(12.11.2026)

Name	Brief characterisation of candidate
Dr. rer. nat. Peter Šiffalovič, DrSc.	**Organisation:** Centre for Advanced Materials Application of the Slovak Academy of Sciences, p.r.i. **Brief characterisation of scientific activity:** Research of advanced materials for energy applications using real-time and in-situ/operando X-ray scattering methods (GISAXS, GIWAXS) in combination with electrochemical impedance spectroscopy (EIS/DRT), Raman spectroscopy and photoluminescence. The focus is on solid-state lithium and sodium batteries (anode-free and Li–S architectures, electrode/electrolyte interfaces), perovskite solar cells and thin-film electrodes. Founding scientist of CEMEA SAS, head of the Advanced Battery Diagnostics group and Chair of the Scientific Board of CEMEA SAS (since 2023). Founder and head of the National Platform for the ESFRI European XFEL research infrastructure. Member of the evaluation panels of PETRA III and European XFEL. **Years of experience:** 24 years (since obtaining the Dr. rer. nat. degree in 2002) **Number of publications registered in WoS and Scopus databases, chapters in monographs, citations, author certificates:** • Web of Science: 223 publications, 3,240 citations (2,913 without self-citations), h-index 28 • Scopus: 221 documents, 3,513 citations, h-index 29 • Chapters in monographs: 6 • Patents/author certificates: 2 **Number of projects led (principal investigator / deputy principal investigator):** • 4 Horizon Europe projects in which he leads the research team for the organisation: SEATBELT, OPERA, ULTRABAT, ANGeLiC • 2 APVV projects as principal investigator: APVV-24-0321, APVV-20-0111 **Major awards:** • SAS awards for publishing in Nature Index journals (2020–2025) • Award of the Minister of Education, Science, Research and Sport of the Slovak Republic for building scientific infrastructure (2011)

	• Prize of the Westfälisch-Lippische Universitätsgesellschaft for the best doctoral thesis of the year in the natural sciences, Universität Bielefeld (2002) • Member of the European Academy of Sciences and Arts (Salzburg) • Full member of the Learned Society of Slovakia (since 2021) **Nominator:** Mgr. Adriana Hvizdošová Annušová, PhD.

Name	Brief characterisation of candidate
Mgr. Eliška Švastová, PhD.	**Organisation:** Biomedical Research Center of the Slovak Academy of Sciences, p.r.i. **Brief characterisation of scientific activity:** • Research of the tumour microenvironment, hypoxia and acidosis with a focus on the role of carbonic anhydrase IX (CAIX) in tumour progression. Study of the mechanisms of pH regulation, invasiveness, metastatic potential and immunosuppression mediated by CAIX with the aim of identifying new diagnostic and therapeutic approaches using both in vitro and in vivo experiments. • Development of targeted tumour therapy based on functionalised nanoparticles targeting the hypoxic tumour microenvironment via CAIX (photothermal therapy; highly specific targeting of chemotherapeutics, etc.) • Study of the biocompatibility of advanced biomaterials • Research scientist at CEMEA, member of the Scientific Board of CEMEA SAS (since 2021) **Years of experience:** 23 years Number of publications registered in WoS and Scopus databases, chapters in monographs, citations, author certificates: Scopus: 29 documents, 2,129 citations, h-index 19 Web of Science: 34 documents, 2,170 citations (2,070 without self-citations), h-index 20 **Number of projects led (principal investigator / deputy principal investigator):** • 2 APVV projects as principal investigator: APVV • 2 projects of the Recovery and Resilience Plan (RRP, 2024–2026) as principal investigator: (1) Involvement of hypoxia-induced carbonic anhydrase IX in the interaction of tumour cells with blood cells during metastatic spread (09I03-03-V04-00444). (2) Development of causal inference AI algorithms for multi-omic integration and identification of root causes and pathways of their influence in cancer hypoxia (09I05-03-V02-00089). • 1 international project, co-investigator for CEMEA, TRANSCAN-3, ERA-NET: Radiothermal-Driven Immune Activation to Tackle Pancreatic Hypoxic Tumors (XPANTHER, 2025–2028)

	Major awards: Award of the independent rating and ranking agency ARRA (2011) – member of a top scientific research team which, as the only one from the field of biomedical research, was ranked among the top scientific teams of the Slovak Academy of Sciences and, in terms of scientometric parameters, reached or exceeded the international level of performance quality (http://www.arra.sk/spickove-vedecke-timy-na-sav-vysledky) Award of the Minister of Education, Science, Research and Sport of the Slovak Republic – as a member of the research team awarded in the category "Research Team of the Year 2011" for a "significant contribution to the study of molecular mechanisms associated with tumour progression and the pathogenesis of viral infections". **Nominator:** Assoc. Prof. Ing. Miroslav Hnatko, PhD.