

Total number of received applications within call in 2022: 87

Total number of evaluated applications within call in 2022: 87

Total number of applications within call 2022 approved by SAS presidium for funding: 44

1. Section 1 – Physical, Space, Earth, and Engineering Sciences

Total number of received applications: 23

Total number of applications approved for funding: 12

Earth and Space Sciences – approved for funding: 5

| Application No: | Project title | SAS institute | Applicant's name | Funding for 2023 (Eur) |
|------------------------|--|------------------------|-------------------------|-------------------------------|
| APP0423 | Using the Electrical Resistivity Tomography to Verify Anomalous Gravimetric Structures | Ústav vied o Zemi SAV | Mgr. Ema Nogová | 2000 |
| APP0363 | Short-term color variations of dust in coma of selected distant comets | Astronomický ústav SAV | Mgr. Anhelina Voitko | 2000 |
| APP0382 | Relating grassland use intensity components to the temporal and phenological patterns of Earth observation data. | Geografický ústav SAV | Mgr. Šimon Opravil | 2000 |
| APP0401 | Vplyv aplikácie biouhlia na základné hydrofyzikálne vlastnosti vybraného druhu | Ústav hydrológie SAV | Ing. Natália Botková | 2000 |

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| | pôdy | | | |
| APP0403 | Generational differences in shopping behavior of Slovak consumers during COVID-19 pandemic | Geografický ústav SAV | Mgr. Katarína Čuláková | 1550 |

Mathematical and Physical Sciences – approved for funding: 3

| Application No: | Project title | SAS institute | Applicant's name | Funding for 2023 (Eur) |
|------------------------|--|----------------------------------|-------------------------|-------------------------------|
| APP0381 | Funkcionalizované magnetické nanočastice pre MRI zobrazovanie distribúcie liečiva v pľúcach pri akútnom syndróme respiračnej tiesne (ARDS) | Ústav experimentálnej fyziky SAV | Mgr. Radka Sobotová | 2000 |
| APP0345 | Characterizations of Shape Memory Microwires for Micro Actuator and Micro Sensor | Ústav experimentálnej fyziky SAV | Limpat Nulandaya | 2000 |
| APP0396 | Frustrované kovové magnetické systémy | Ústav experimentálnej fyziky SAV | Ing. Július Bačkai | 1000 |

Engineering Sciences – approved for funding: 4

| Application No: | Project title | SAS institute | Applicant's name | Funding for 2023 (Eur) |
|------------------------|--|---------------------------------|-------------------------|-------------------------------|
| APP0430 | Fosfidy prechodných kovov pre elektrolytický rozklad vody | Ústav materiálového výskumu SAV | Ing. Cyril Bera | 2000 |
| APP0371 | Štúdium nových typov materiálov na báze komplexných oxidov určených na uskladnenie energie | Ústav geotechniky SAV | Mgr. Olena Porodko | 2000 |
| APP0424 | Improvement of crystal quality of β -Ga ₂ O ₃ grown on SiC using LI-MOCVD method | Elektrotechnický ústav SAV | Ing. Fedor Hrubíšák | 2000 |
| APP0373 | Development of silicon carbide and aluminum nitride interlayers for pn heterostructure based on gallium oxide and boron-doped nanodiamonds | Elektrotechnický ústav SAV | Javad Keshtkar | 1000 |

2. Section 2 – Life, Chemical, Medical, and Environmental Sciences

Total number of received applications: 53

Total number of applications approved for funding: 26

Medical Sciences – approved for funding: 11

| Application No: | Project title | SAS institute | Applicant's name | Funding for 2023 (Eur) |
|------------------------|--|-----------------------------|-------------------------|-------------------------------|
| APP0337 | Combination therapy testing in vivo using an advanced xenograft mouse model mimicking PDAC tumor microenvironment by co-injection of cancer-associated fibroblasts | Biomedicínske centrum SAV | Mgr. Mária Urbanová | 2 000,00 |
| APP0398 | The generation of novel cellular models for the analysis of Parkinson's disease related pathology | Neuroimunologický ústav SAV | MIRAJ UD DIN MOMAND | 2 000,00 |
| APP0405 | Kombinovaná terapia ako možnosť liečby traumou poškodenej miechy | Biomedicínske centrum SAV | Mgr. Martina Kokavcová | 2 000,00 |
| APP0407 | Generation of novel cell lines for analysis of neuronal senescence-like response and clarification of its role in neurodegeneration | Neuroimunologický ústav SAV | Mgr. Kristína Macová | 2 000,00 |

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| APP0392 | Optimalizácia produkcie cudzorodých polypeptidov v rastlinách pomocou vírusového vektora | Biomedicínske centrum SAV | Mgr. Adam Achs | 2 000,00 |
| APP0402 | Unravelling mechanisms of chemotherapy resistance in breast cancer | Biomedicínske centrum SAV | Mgr. Lenka Trnková | 2 000,00 |
| APP0397 | Rapid evaluation of the neutralising antibody response against new emerging SARS-CoV-2 variants by pseudotype virus-based neutralisation assays | Biomedicínske centrum SAV | Ing. Veronika Vaňová | 2 000,00 |
| APP0342 | The role of lipid droplets in lymphocytic choriomeningitis virus propagation | Biomedicínske centrum SAV | Mgr. Božena Omasta | 2 000,00 |
| APP0377 | Genetické zmeny v mitochondriách : potenciálny marker chemorezistencie testikulárnych nádorov ? | Biomedicínske centrum SAV | Pavína Kabelíková | 2 000,00 |
| APP0434 | Linking adipokines with the expression of carbonic anhydrase IX in cancer cells | Biomedicínske centrum SAV | Mgr. Jana Lapinová | 2 000,00 |
| APP0410 | Stanovenie protinádorového účinku novosyntetizovaného | Biomedicínske centrum SAV | Mgr. Michaela | 2 000,00 |

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| | derivátu tymolu na bunky kolorektálneho karcinómu v 3D podmienkach | | Blažičková | |
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Biological and Chemical Sciences – approved for funding: 9

| Application No: | Project title | SAS institute | Applicant's name | Funding for 2023 (Eur) |
|-----------------|--|-------------------------------|--------------------|------------------------|
| APP0426 | Mechanical properties of advanced materials based on the clay minerals and polymers studied by the computational method. | Ústav anorganickej chémie SAV | MSc. Sanam Bashir | 2 000,00 |
| APP0437 | Escherichia coli exprimujúca zelený fluorescenčný proteín (GFP) ako modelový systém testovania antimikrobiálnych postupov in vitro a in vivo | Centrum biovied SAV | Mgr. Majlinda Meta | 2 000,00 |
| APP0391 | PMBL brushes with biomolecular conjugates on Al ₂ O ₃ using surface-initiated photoATRP. | Ústav polymérov SAV | Darshak Pathiwada | 2 000,00 |
| APP0421 | Vyhľadávanie nových biomarkerov kolorektálneho karcinómu prostredníctvom glykomickej analýzy | Chemický ústav SAV | Mgr. Maroš Krchňák | 2 000,00 |

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| | hmotnostnou spektrometriou | | | |
| APP0385 | Glykoprofilovanie fibroblastov pre štúdium vrodených porúch glykozylácie | Chemický ústav SAV | Mgr. Rebeka Kodríková | 2 000,00 |
| APP0420 | The role of pomegranate long-chain acyl-CoA synthetases in the process of lipid and puniic acid accumulation | Centrum biovied SAV | Mgr. Daniela Krajčiová | 2 000,00 |
| APP0384 | Wetting behaviour and high temperature interactions between MoNbTaVW high entropy alloy and (MoNbTaVW)C high entropy ceramics | Ústav anorganickej chémie SAV | Naser Hosseini | 2 000,00 |
| APP0387 | Vplyv vybraných kmeňov kvasiniek na rastliny vystavené environmentálnemu stresu – suchu | Chemický ústav SAV | MSc. Marko Bajus | 2 000,00 |
| APP0418 | The Study of Phage BFK20 Injection Mechanism Using Two Hybrid Bacterial System (BACTH) | Ústav molekulárnej biológie SAV | Mgr. Kristina Papayová | 2 000,00 |

Agricultural and Veterinary Sciences – approved for funding: 6

| Application No: | Project title | SAS institute | Applicant's name | Funding for 2023 (Eur) |
|------------------------|---|---|-------------------------|-------------------------------|
| APP0361 | Diversity of endophyte fungal symbionts in the root system of endemic <i>Daphne arbuscula</i> (Thymelaeaceae) from extreme rocky habitats | Centrum biológie rastlín a biodiverzity SAV | Mgr. Zuzana Gajdošová | 2 000,00 |
| APP0406 | Charakterizácia biochemických a antifungálnych vlastností chitinázy z rosičky rozvetvenej (<i>Drosera binata</i>) | Centrum biológie rastlín a biodiverzity SAV | Mgr. Veronika Mikitová | 2 000,00 |
| APP0422 | Comparison of various DNA regions (molecular markers) in fungal metabarcoding of diverse groups of soil fungi (the Agaricomycotina) on Illumina sequencing platform | Centrum biológie rastlín a biodiverzity SAV | MSc. Vasilii Shapkin | 2 000,00 |
| APP0404 | Výškové zmeny spoločenstiev lienok (Coleoptera: Coocinellidae) na smreku obyčajnom | Ústav ekológie lesa SAV | Ing. Terézia Jauschová | 2 000,00 |
| APP0425 | The impact of artificial snowmaking on topsoil properties in mountainous areas | Centrum biológie rastlín a biodiverzity SAV | Mgr. Simona Klačanová | 2 000,00 |

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| APP0352 | Komparatívna analýza cytogetických markerov parazita <i>Acanthocephalus anguillae</i> z dvoch ekosystémov s rozdielnou mierou antropogénneho znečistenia. | Parazitologický ústav SAV | Mgr. Anna Marková | 2 000,00 |
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3. Section 3 – Social Sciences, Humanities, Arts, and Culture

Total number of received applications: 11

Total number of applications approved for funding: 6

Historical Sciences – approved for funding:2

| Application No: | Project title | SAS institute | Applicant's name | Funding for 2023 (Eur) |
|------------------------|--|-------------------------|--------------------------|-------------------------------|
| APP0409 | Burial ritual of the Lusatian culture in Slovakia and neighboring cultural-geographic regions on both sides of the Carpathian Arc during the Bronze and Early Iron Age | Archeologický ústav SAV | Mgr. Urszula Śmigieliska | 2000 |
| APP0335 | Peážna doprava a jej vplyv na vývoj železničnej dopravy na južnom pohraničnom území Slovenska v rokoch 1938 - | Historický ústav SAV | PhDr. Patrik Beňuš | 2000 |

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Humanities and Social Sciences – approved for funding: 4

| Application No: | Project title | SAS institute | Applicant's name | Funding for 2023 (Eur) |
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| APP0438 | Identifikovanie možných dôsledkov konceptuálneho systému antropocénu na základné východiská vo filozofickej antropológii | Filozofický ústav SAV | Mgr. Katarína Podušelová | 1000 |
| APP0374 | Bolo to chcené? Hranice v sexe ako intímny, ale aj spoločenský problém / Was it wanted? Boundaries in sex as an intimate, but also a social issue | Ústav výskumu sociálnej komunikácie SAV | Miroslava Šudila Žilinská | 2000 |
| APP0427 | Boj proti alkoholizmu komunistického režimu na Slovensku | Sociologický ústav SAV | Ivana Balgová | 1825 |
| APP0360 | Percipované zmeny vo vybraných aspektoch kvality života u onkologických | Centrum spoločenských a psychologických vied SAV | Mgr. Bianka Karlíková | 1000 |

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| | pacientov s rakovinou semenníkov | | | |
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