**VVGS PF UPJŠ - approved and funded projects in the call 2016-2017**

Table:  [Projects sorted by success on the relevant department](http://www.upjs.sk/en/faculty-of-science/7720)

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| --- | --- | --- | --- |
| Project number | Institute | Projekt Manager | Name of project |
| VVGS-PF-2016-72607 | ÚBEV | RNDr. Zuzana Gombalová | Characterization of the cells lining the central canal of spinal cord post mortem, as a stem cell niche in the adult CNS. |
| VVGS-PF-2016-72617 | ÚBEV | Mgr. Erika Szentpéteriová | Erythropoietin receptor and its role in breast cancer resistance to paclitaxel |
| VVGS-PF-2016-72621 | ÚBEV | Mgr. Diana Kopcsayová | Embryogenesis of Arabidopsis thaliana in relation to isoprenoid biosynthesis. |
| VVGS-PF-2016-72615 | ÚBEV | RNDr. Michal Goga | Biological activity of secondary metabolites of lichens (allelopathy, UV-protection) |
| VVGS-PF-2016-72622 | ÚBEV | RNDr. Maroš Dzurinka | Morphological and genetical study of hardly distinguishable Colias species, Fabricius, 1807 (Lepidoptera: Pieridae) |
| VVGS-PF-2016-72625 | ÚBEV | Mgr. Mgr. Martin Majerník  | Finding differences in the effects of photodynamic therapy with hypericin between 2D and 3D cell models (spheroids)of chosen cell lines. |
| VVGS-PF-2016-72640 | ÚFV | Mgr. Michal Šefčík  | The study of strange particles production in experiment ALICE |
| VVGS-PF-2016-72639 | ÚFV | Mgr. Georgii Kalagov | Renormalization group study of quantum phase transitions in static and dynamic models with different symmetry |
| VVGS-PF-2016-72631 | ÚFV | Mgr. Katarína Kopčová | Oxygenase activity of cytochrome c oxidase |
| VVGS-PF-2016-72614 | ÚFV | RNDr. Jakub Miňo | The study of magnetic, structural and mechanical properties of selected Heusler alloys. |
| VVGS-PF-2016-72608 | ÚFV | Mgr. Viktor Kudak | Exoplanets and Brown Dwarfs in the Eclipsing Binaries |
| VVGS-PF-2016-72626 | ÚFV | Mgr. Michal Nemergut  | Study of properties of selected DARPins against maltose binding protein. |
| VVGS-PF-2016-72646 | ÚFV | Mgr. Ondrej Kapusta | Preparation and design nanocomposite systems consisting of nanoparticles Fe and Ni prepared by impregnation andelectrochemical deposition inside porous matrices |
| VVGS-PF-2016-72606 | ÚFV | Mgr. Katarína Karľová | Rigorous study of magnetocaloric properties of Ising and Heisenberg spin clusters |
| VVGS-PF-2016-72634 | ÚCHV | Mgr. Miroslava Čonková  | Stereoselective synthesis of 1-deoxysphingoid bases |
| VVGS-PF-2016-72609 | ÚCHV | Mgr. Eva Beňová  | Mesoporous silica nanoparticles modified by pH-sensitive molecules for controlled release of cytostatic drug 5-fluorouracil |
| VVGS-PF-2016-72637 | ÚCHV | Mgr. Ondrej Petruš  | Functional nanocavities films in biodiagnosis |
| VVGS-PF-2016-72645 | ÚCHV | Mgr. Lucia Markušová-Bučková | Degradable cellular materials for bone implants |
| VVGS-PF-2016-72603 | ÚCHV | Mgr. Patrik Nunhart | 3,6,9-Trisubstituted acridine derivatives as potencial anticancer drugs and their topoisomerase inhibition activity. |
| VVGS-PF-2016-72630 | ÚCHV | Mgr. Martina Brudňáková | Isolation and analysis of exopolysaccharides like perspective food bio aditives with a synergic effect |
| VVGS-PF-2016-72623 | ÚCHV | Mgr. Anna Vráblová | Coordination compounds based on selected transition metals and lanthanides as molecular magnets |
| VVGS-PF-2016-72618 | ÚCHV | RNDr. Monika Kvaková | Utilization of liquid crystals and molecules with biological importance in synthesis of nano and microparticles. |
| VVGS-PF-2016-72642 | ÚCHV | RNDr. Katarína Garajová  | Study of structural and catalytic properties of flavin oxidases. |
| VVGS-PF-2016-72610 | ÚINF | Mgr. Tomáš Jakab | Detection of attacks using the honeypots |
| VVGS-PF-2016-72638 | ÚINF | Mgr. Miroslav Opiela  | Indoor model environment acquisition and following localization using smartphone sensors |
| VVGS-PF-2016-72616 | ÚMV | Mgr. Andrej Gajdoš | Properties and applications of statistical predictors and estimators in linear models using computer simulations. |
| VVGS-PF-2016-72604 | ÚMV | Mgr. Juraj Valiska | Chromatic-structural properties of plane graphs |