

Funded by EU H2020 and other international funding agencies

1. Title - Developing novel nanopharmaceutics against bacterial infections at central nervous system, Grant number - EURONANOMED2021-105 Funding - 75000 EUR €, Duration - 2022 - 2024, Funding agency – ERA-NET H2020, Call - EURONANOMED2021, Acronym - Antineuropatho, Principal Investigator – (Slovakia) Bhide Mangesh
2. Title - Safety assessment of novel foods and nutrient sources, Grant number – GP/EFSA/NUTRI/2021/01 Funding - 13000 EUR €, Duration - 2022 - 2025, Funding agency – EFSA, Call –, Principal Investigator – (Slovakia) Bhide Mangesh
3. Title - Nanosystems conjugated with antibody fragments for treating brain infections in Slovak. *Nanosystems conjugated with antibody fragments for treating brain infections* Grant number - EURONANOMED2018-049 Funding - 120 000 EUR €, Duration - 2019 - 2021, Funding agency - ERA-NET H2020, Call - EURONANOMED2018, Acronym - TARBRAINFECC, Principal Investigator - (Slovakia) Bhide Mangesh
4. Title - Knowledge platform for assessing the risk of bisphenols on gut microbiota and its role in obesogenic phenotype: looking for biomarkers, in Slovak. *Knowledge platform for assessing the risk of bisphenols on gut microbiota and its role in obesogenic phenotype: looking for biomarkers*, Grant number - GP/EFSA/ENCO/2018/03-GA04, Funding - 16 660 EUR €, Duration - 2019 - 2021, Funding agency - European Food Safety Authority, Call - GP/EFSA/ENCO/2018/03, Acronym - OBEMIRISK, Principal Investigator - (Slovakia) Bhide Mangesh
5. Title - Innovative training network in Molecular Animal Nutrition, in Slovak. *Innovative training network in Molecular Animal Nutrition*, Grant number - 765423, Funding - 3 mil. Euro.; UVLF - Kosice 205000 €, Duration - 2018 – 2021, Funding agency - H2020- MSCA-ITN-2017, Call - H2020- MSCA-ITN-2017, Acronym - MANNA, Principal Investigator - (Slovakia) Bhide Mangesh,

Funded by COST action of EU

1. Title - Targeted chemotherapy towards diseases caused by endoparasites, in Slovak. *Targeted chemotherapy towards diseases caused by endoparasites*, Grant number - CM1307, Duration - 2014 - 2017, Funding agency - European science foundation COST, Call - COST—, Acronym - Endoparasites, Principal Investigator - Mc Members: Zuzana Flachbartova and Bhide Mangesh
2. Title - European Network for neglected vectors and vector-borne infections, in Slovak. *European Network for neglected vectors and vector-borne infections* Grant number - TD1303, Funding - — EUR €, Duration - 2013 - 2016, Funding agency - European science foundation COST, Acronym - EurNegVec, Principal Investigator - Mc Member: Elena Bencurova. MC substitute - Bhide Mangesh
3. Title - Farm animal proteomics: proteomics in domestic animals, in Slovak. *Farm animal proteomics: proteomics in domestic animals*, Grant number - FA1002, Funding - EUR €, Duration - 2011 - 2014, Funding agency - European science foundation COST, Acronym - FAP, Principal Investigator - Mc Members: Bhide Mangesh and Rastislav Mucha

4. Title - Array technologies for BSL3 and BSL4 pathogens, in Slovak. *Array technologies for BSL3 and BSL4 pathogens*, Grant number - B28, Funding - — EUR €, Duration - 2009 - 2011, Funding agency - European science foundation COST B28, Call - COST—, Acronym - Array, Principal Investigator - Mc Member: Bhide Mangesh,

Funded by Slovak research and development agency (APVV)

1. Title – Development of albumin and dendrimer-based nanosystems against tick-borne encephalitis virus, in Slovak – Vývoj nanosystémov na báze albumínu a dendriméru proti vírusu kliešťovej encefalitídy, Grant number – APVV-23-0348, Funding – ~28000 EUR € for LBMI, Duration – 2024-2028, Funding agency – APVV, Call – APVV VV 2023, Principal investigator – Juraj Koči, Mangesh Bhide
2. Title – Development of nano-system to deliver the drugs into the brain against neuroinvasive pathogens, in Slovak – Vývoj nano-systému na transport liečiv do mozgu proti neuroinvazívnym patogénom, Grant number – APVV-22-0084, Funding – 207 000 EUR €, Duration – 2023-2027, Funding agency – APVV, Call – APVV VV 2022, Principal investigator – Mangesh Bhide
3. Title - Development of therapeutic biomolecules to block SARS-CoV-2 infection, in Slovak. *Vývoj terapeutických biomolekúl blokujúcich SARS-CoV-2 infekciu*, Grant number - Funding - 155 016 EUR €, Duration - 2020 - 2021, Funding agency - APVV, Call - APVV PP-COVID-2020, Acronym - Development of therapeutic biomolecules to block SARS-CoV-2 infection, Principal Investigator - Kontsekova Eva Pi, Bhide Mangesh Co-Pi
4. Title - Development of strategic therapeutics against selected vector- borne neuroinfections, in Slovak. *Strategický vývoj terapeutických látok voči neuroinfekciám spôsobených výbranými vektormi prenášanými patogénmi*, Grant number - APVV-18-0259, Funding - 248662 €, Duration - 2019 – 2023, Funding agency - APVV, Call - APVV VV 2018, Acronym - PathoBlock, Principal Investigator - Mangesh Bhide
5. Title - The development of novel approaches for therapy of tauopathies using transport peptides for drugs and antibodies into the brain, in Slovak. *Vývoj nových prístupov na terapiu tuopatií využívajúcich transportné peptidy pre liečivá a protilátky do mozgu*, Grant number - APVV -18-0302, Funding - 38 000 EUR €, Duration - 2019 - 2022, Funding agency - APVV, Call - APVV VV 2018, Acronym - KYNPED, Principal Investigator - Andrej Kovac, Co-Pi: Bhide Mangesh
6. Title - Deciphering the ligand-receptor interaction involved in central nervous system by Neisseria and Streptococcus, in Slovak. *Odhalenie ligand-receptor interakcií zúčastňujúcich sa invázie patogénov do centrálného nervového systému a vývoj cielej terapeutickú stratégiu voči neuroinfekciám*, Grant number - 14-0218, Funding - 218 986 eur €, Duration - 2015 - 2019, Funding agency - APVV, Call - APVV VV 2014, Acronym - INEURAb, Principal Investigator - Mangesh Bhide
7. Title - Identification of biomarkers associated with chemotherapy resistance in testicular tumors from germ cells in Slovak. *Identification of biomarkers associated with chemotherapy resistance in testicular tumors from germ cells in Slovak*, Grant number - APVV-0016-

11, Funding - 38 000 eur €, Duration - 2012 - 2015, Funding agency - APVV, Call - APVV VV 2011, Acronym - Retetestis, Principal Investigator - Mego Michal, Co-Pi: Bhide Mangesh

8. Title - Production and identification of one E. ruminantium outer membrane protein OMPatt, strongly expressed in attenuated strain in Slovak. *Produkcia a identifikácia receptora pre vonkajší membránový proteín OMPatt (E. ruminantium), ktorý je silne exprimovaný v oslabenom kmeni*, Grant number - SK-FR-2013-0031, Funding - 5 300 eur €, Duration - 2012 - 2015, Funding agency - APVV, Call - APVV SK-FR-12, Acronym - RecProtER, Principal Investigator - Mangesh Bhide
9. Title - Study of host:patogen interaction at proteomic level to explore immune evasion mechanisms of pathogens, in Slovak. *Štúdium interakcie medzi hostiteľom a patogénom na objasnenie neuroinvázičných mechanizmov na proteomickej úrovni*, Grant number - APVV 0036-10, Funding - 243 925 EUR €, Duration - 2011 - 2014, Funding agency - APVV, Call - APVV VV 2010, Acronym - Hostiteľ - patogén interakcia, Principal Investigator - Mangesh Bhide
10. Title - Study of complement evasion strategies used by Francisella and Borrelia, in Slovak. *Štúdium únikových stratégií Francisella a Borrelia pred komplementovým systémom*, Grant number - APVV SK-PT-0014-10, Funding - 5 395 EUR €, Duration - 2011 - 2012, Funding agency - APVV, Call - APVV SK-PT-2010, Acronym - BORCOMP, Principal Investigator - Mangesh Bhide
11. Title - Regulation of transcription system Sak 188/189 in Streptococcus agalactiae, in Slovak. *Regulácia transkripcie dvojzložkového systému Sak188/189 u Streptococcus agalactiae*, Grant number - SK-RU-0013-07, Funding - 6 500 eur €, Duration - 2008 - 2009, Funding agency - APVV, Call - APVV SK-RU-07, Acronym - SakSys, Principal Investigator - Emil Pilipčinec, Co-Pi: Bhide Mangesh

Funded by EU structural funds and Recovery and Resilience Plan (RRP)

1. Title: Modernizácia infraštruktúry pre výskum nanosystémov na transport liečiv do mozgu, Evidenčné číslo: 09I03-03-V06-00006, Grantová agentúra: Plán obnovy a odolnosti SR, Kód výzvy 09I03-03-V06 - Kapitálový booster pre schémy na podporu výskumu a vývoja, Funding – EUR 82000 €, Duration - 2023 – 2025, Principal investigator – Mangesh Bhide
2. Title: Podpora medzinárodnej spolupráce a zapájania sa do projektov Horizont Európa a EIT, Evidenčné číslo: 09I01-03-V02-00197, Grantová agentúra: Plán obnovy a odolnosti SR, Kód výzvy - 09I01-03-V02, Funding – EUR 4000 €, Duration - 2024 – 2025, Principal investigator – Mangesh Bhide
3. Title – Interaction between SARS-Cov-2 and regulators of the complement, in Slovak – Interakcie SARS-CoV-2 a regulátorov komplementového systému, Grant number – IGA-ESGD/02/2024, Funding – 6000 EUR €, Duration – 2024-2026, Funding agency – Plán obnovy a odolnosti SR, Call – 09I03-03-V05 Early stage grants, Principal investigator – Jakub Víglaský
4. Title – Development of high diversity neutralizing regions from single-domain antibodies against Tick-borne encephalitis virus, in Slovak – Vývoj neutralizujúcich vysoko diverzitných oblastí z jednodoménových protilátok voči vírusu kliešťovej encefalitídy, Grant number – IGA-

ESGD/03/2024, Funding – 6000 EUR €, Duration – 2024-2026, Funding agency – Plán obnovy a odolnosti SR, Call – 09I03-03-V05 Early stage grants, Principal investigator – Diana Kosturikova

5. Title - Development of monodomain antibodies blocking SARS-CoV-2 with therapeutic potential, in Slovak. *Vývoj monodoménových protilátok blokujúcich SARS-CoV-2 a terapeutickým potenciálom*, Grant number - MSVVaS SR-UVLF-03-21 Funding - 500000 EUR €, Duration - 2021 - 2024, Funding agency – MŠVVaŠ SR, Call -, Acronym – Vybudovanie BSL-3 laboratória, Principal Investigator - Bhide Mangesh
6. Title - University Medical Park, in Slovak. *Univerzitný medicínsky park*, Grant number - ITMS26220220185, Funding - 8.2 mil. EUR €, Duration - 2013 - 2018, Funding agency - EU Structural Funds Call - ITMS26220220185, Acronym - MEDIPARK, Principal Investigator - Pistl Juraj, Bhide Mangesh (Head of Proteomics)
7. Title - New study programs and education at UVLF in Košice in Slovak. *Nové študijné programy a vzdelávanie na UVLF v Košiciach*, Grant number - ITMS26110230036, Funding - 1 049 997 EUR €, Duration - 2011 - 2014, Funding agency - EU Structural funds, Call - ITMS26110230036, Acronym - Neurovedy, Principal Investigator - Mangesh Bhide (Head of Proteomics)
8. Title - Transfer of the knowledge from research to education for veterinarians and medical students in Slovak. *Transfer poznatkov z výskumu pre študentov veterinárskych a medicínskych odborov*, Grant number - 037-002UVL8-2008, Funding - 60 000 eur €, Duration - 2008 - 2009, Funding agency - Ministry of education Call - —, Acronym - Transfer poznatkov, Principal Investigator - Juraj Pistl, Mangesh Co-Pi: Bhide
9. Title - Excellence centre for Animal Diseases and Zoonoses, in Slovak. *Centrum excelentnosti pre nákazy zvierat a zoonózy*, Grant number - ITMS26220120002, Funding - 1 293 089 EUR €, Duration - 2009 - 2011, Funding agency - EU Structural funds, Call - ITMS26220120002, Acronym - INFEKTZOON, Principal Investigator - Vilček Štefan, Mangesh Bhide (Head of Proteomics)
10. Title - Open research community for modern interdisciplinary research in medicine (OPENMED), in Slovak. *Open research community for modern interdisciplinary research in medicine (OPENMED)*, Grant number - Funding - 300 000 EUR for LBMI €, Duration - 2020 - 2021, Funding agency - Call - NFP313010V455, Acronym - Open research community for modern interdisciplinary research in medicine (OPENMED), Principal Investigator - Juraj Pistl, Stefan Vilcek, Mangesh Bhide,

Funded by Scientific Grant Agency of the Ministry of Education, Science, Research and Sport of the Slovak Republic (VEGA)

1. Title – Synthesis of the antimicrobial peptides as a potential therapeutic agent against neuroborreliosis, in Slovak – *Syntéza antimikrobiálnych peptidov ako potenciálne terapeutické látky proti neuroborelióze*, Grant number – 1/0348/22, Funding – EUR ~48000 €, Duration – 2022-2025, Funding agency – VEGA, Call – VEGA 2022, Principal investigator – Evelína Mochnáčová

2. Title – Development of single-domain antibodies (nanobodies) from Llama (*Vicugna pacos*) and therapeutic C7C peptides against protein S of SARS-CoV-2, in Slovak – *Vývoj jednodoménových protilátok (nanoprotilátok) z lamy (Vicugna pacos) a terapeutických C7C peptidov proti proteínu S SARS-CoV-2*, Grant number – 1/0381/23, Funding – EUR ~ 48000 €, Duration – 2023-2026, Funding agency – VEGA, Call – VEGA 2023, Principal investigator – Mangesh Bhide
3. Title - Development of single-domain antibodies (nanoantibodies) from Llama (*Vicugna pacos*) and therapeutic C7C peptides against SARS-CoV-2, Grant number – 1/0381/23 Funding – 56000 (approx.) EUR €, Duration - 2023 - 2026, Funding agency – VEGA, Call –VEGA 22, Principal Investigator - Bhide Mangesh
4. Title - Transcriptome analysis of the effect of surface ligands of *Borrelia* on host cells and synthesis of nanobodies against selected ligands as potential therapeutic agent, in Slovak. *Štúdium vplyvu povrchových ligandov borélií na hostiteľské bunky prostredníctvom analýzy transkriptómu a produkcia nanoprotilátok, voči vybraným ligandom s potenciálnym terapeutickým účinkom*, Grant number - VEGA 1/0105/19, Funding - 45 000 EUR €, Duration - 2019 - 2022, Funding agency - VEGA, Call - VEGA 2019, Acronym - *Transcriptome Borrelia*, Principal Investigator - Bhide Mangesh
5. Title - Analysis of the effect of surface antigen (domain III of protein E) of selected flaviviruses on the cells of neurovascular unit and synthesis of protein E inhibiting peptide as potential therapeutic agent, in Slovak. *Analýza efektu povrchového antigénu (doména III proteínu E) vybraných flavivírusov na bunky neurovaskulárnej jednotky a syntéza inhibičného peptidu voči doméne III ako potencionalnej terapeutickkej látky*, Grant number - VEGA 1/0439/18, Funding - 56 000 EUR €, Duration - 2018 - 2021, Funding agency - DIII protein E, Call - VEGA 2017, Acronym - VEGA -, Principal Investigator - Katarína Bhide, Co-Pi: Jimenez Munguía Irene
6. Title - Exopolysaccharides from *Lactobacillus reuteri*: the study of their immunomodulatory effect on porcine intestinal epithelial cells (IPEC-1) challenged with enterotoxigenic *E.coli* in Slovak. *Exopolysacharidy Lactobacillus Reuteri: štúdium ich imunomodulačného účinku na intestinálne epitelové bunky prasiat (IPEC-1) po čelení s enterotoxigénnymi E.coli*, Grant number - VEGA 1/0633/17, Funding - 34 979 EUR €, Duration - 2017 - 2019, Funding agency - VEGA, Call - VEGA 2016, Acronym - EPS, Principal Investigator - Tkacikova L, Co-Pi: Mangesh Bhide
7. Title - Mapping of borrelial epitopes and Multiple antigenic peptides construction for active immunization against Lyme borreliosis, in Slovak. *Mapovanie epitopov povrchových proteínov borélií pre účely vývoja Multiple antigenic peptide vakcíny proti Lymskej borelióze*, Grant number - VEGA 1/0261/15, Funding - 36 739 EUR €, Duration - 2015 - 2018, Funding agency - VEGA, Call - VEGA 2014, Acronym - Epitope mapping, Principal Investigator - Pulzová Lucia / Mikula Ivan
8. Title - Deciphering potential factors of neuroinvasive Lyme disease *Borrelia* inducing neuroinflammation upon infection of the CNS, in Slovak. *Odhalenie potenciálnych faktorov neuroinvazívnych borélií spôsobujúcich neurozápal v CNS*, Grant number - VEGA 1/0258/15, Funding - 35 620 EUR €, Duration - 2015 - 2018, Funding agency - VEGA, Call - VEGA 2014, Acronym - Neuroinflammation, Principal Investigator - Mangesh Bhide

9. Title - Study of underlying protein-protein interactions that take part in the translocation of *Borrelia* and *Francisella* across blood brain barrier in Slovak. *Štúdium základných proteínových interakcií, ktoré sa zúčastňujú pri translokácii Borrelia a Francisella cez hematoencefalickú bariéru*, Grant number - 1/0054/12, Funding - 32 631 EUR €, Duration - 2012 - 2014, Funding agency - VEGA, Call - VEGA 2011, Acronym - BorFranTran, Principal Investigator - Mangesh Bhide
10. Title - New trends in the use of the bioinformatics Analyzes in Genomics and Proteomics for students in the Veterinary and the Medical fields, in Slovak. *Nové trendy vo využívaní bioinformatických analýz v genomike a proteomike pre študentov veterinárskych a biomedicínskych odborov*, Grant number - KEGA 005UVLF-4/2011, Funding - 26 995 EUR €, Duration - 2011 - 2015, Funding agency - KEGA, Call - KEGA 2010, Acronym - In silico veritas I., Principal Investigator - Mangesh Bhide
11. Title - Study of interaction between host and *Borrelia* at proteomic level in relation with search for novel biomarkers, in Slovak. *Štúdium interakcie medzi hostiteľom a boréliami na proteínovej úrovni vo vzťahu k novým biomarkerom*, Grant number - 1/0621/09, Funding - 31 450 EUR €, Duration - 2009 - 2011, Funding agency - VEGA, Call - VEGA 2008, Acronym - HostBorProt, Principal Investigator - Mangesh Bhide
12. Title - Molecular approaches for the detection of *Mycobacterium avium* subsp. *paratuberculosis* and mutation in the genes of innate immunity in relation to infection, in Slovak. *Molekulárne prístupy detekcie Mycobacterium avium subsp. paratuberculosis a mutácií v génoch nešpecifickej imunity vo vzťahu k infekcii*, Grant number - VEGA 1/0608/09, Funding - 24 726 EUR €, Duration - 2009 - 2011, Funding agency - VEGA, Call - VEGA 2009, Acronym - MycoBakter, Principal Investigator - Ivan Mikula, Co-Pi: Bhide Mangesh,

Funded by Slovak cultural and educational grant agency (KEGA)

1. Title - Bioinformatics and molecular biology tools in the study of pathogenicity and virulence factors of medically important bacterial pathogens, Grant number – KEGA 007UVLF-4/2021 Funding – 45000 (approx.) EUR €, Duration - 2021 - 2023, Funding agency – KEGA, Call –KEGA 2020, Principal Investigator – Pilipčinec Emil, Co-PI: Bhide Mangesh
2. Title - Advances in bioinformatic tools for veterinary and medical students, in Slovak. *Pokročilé bioinformatické metódy pre študentov veterinárskych a medicínskych odborov*, Grant number - KEGA016UVLF-4/2015, Funding - 43 925 EUR €, Duration - 2015 - 2017, Funding agency - KEGA, Call - KEGA 2015, Acronym - In silico veritas II., Principal Investigator - Mangesh Bhide,