

**Activities undertaken under Article 47 of Directive 2010/63/EU on the protection of animals used for scientific purposes to contribute to the development, validation and promotion of alternative approaches, and dissemination of information thereon at national level**

Member State: **Slovak Republic**

Time period: **2014 - 2016**

Submitted by:

| ACTIVITY                                 | ACTION TAKEN   | OBJECTIVE  | RESULTS - IMPACT | MONETARY VALUE<br>(where appropriate)                              |
|--|--|--|------------------|--|
| <b>1. Three Rs policy and investment</b> | <b>List any changes in, or amendments to the Three Rs policy (including legislative changes) aimed at promoting and accelerating the development and uptake of alternative approaches. Describe the steps taken to encourage research in this field.</b> |  |                  |  |
| Policy changes                           | Implementation of Directive 2010/63/EU into the national legislation   | Legal obligation   |                  |  |
| Public research investment               | Research in the area of 3Rs as other scientific areas is realized by grants provided by scientific grant agencies of governmental bodies.  | Grant applicants are responsible for the main aims of each grant. Basic information about grants are publicly available on the websites of the scientific grant agencies for e.g. <a href="http://www.apvv.sk">www.apvv.sk</a> |                  | <b>We do not have information about monetary values of grants.</b> |

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| <p><b>Private research investment</b></p>                                       | <p><b>MatTek In Vitro Life Science Laboratories, Bratislava, Slovakia</b></p> <p>EpiOcular Eye Irritation test – prevalidation, validation, acceptance of the OECD level and international cooperation with CosEU, ECVAM, JRC, OECD</p> <p>Skin Corrosion test - update of the OECD TG method to allow for subcategorisation of corrosive substances into class 1A in vitro, international cooperation with Industry and ECVAM</p> <p>Con4EI project- validation in vitro test strategy in the area Eye irritation – international project</p> <p>Medical devices protocol for skin irritation (ISO, industry)</p> |  | <p>OECD TG 492</p> <p>will be update OECD TG 431</p> |  |
| <p><b>2. Validation and regulatory acceptance of alternative approaches</b></p> | <p><b>List measures taken to validate alternatives which are intended to reduce or eliminate the need for animal use or intended to reduce suffering by application of less painful (more refined) procedures. List measures taken to facilitate and promote regulatory acceptance of alternative approaches.</b></p>  |  |  |  |

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| EU-NETVAL laboratory membership(s)                              | Call to laboratories for EU-NETVAL membership  | EU-NETVAL membership   | The applicant was not selected.  |  |
|   | Set up of database of potential laboratories for EU-NETVAL membership                        | EU-NETVAL membership   |  |  |
| EU-NETVAL task participation                                    |  |  |  |  |
| Participation in other validation studies                       |  |  |  |  |
| PARERE membership and activities within PARERE network          | Establishment of single contact point under Art. 47 (5) of Dir.2010/63                       | Preliminary analysis of regulatory relevance of alternative test methods | Ministry of Agriculture and Rural Development was appointed as single contact point under Art. 47 (5) of Dir.2010/63.<br>National scientific network on alternative methods was established to support actively Slovak representative in PARERE network. |  |
| <b>3. Promotion of alternative approaches at national level</b> | <b>Describe specific measures taken to promote alternative approaches at national level.</b> |  |  |  |

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| Communication/ awareness activities and events  | The cooperation of the national scientific network on alternative methods   | Strengthening the cooperation with scientific base   | National networks is composed of 14 experts including PARERE and OECD member.   |  |
|   | information exchange on 3Rs among scientists on national level, electronical communication and sending of actual information from the area of 3Rs   | Promotion of 3Rs and dissemination of information to national experts  |   |  |
| Portals – web-sites, databases and publications | Web site of Ministry of Agriculture and Rural Development is used for public information <a href="http://www.mpsr.sk">www.mpsr.sk</a>   | Communication with public  |   |  |
| Education & training activities                 | <p>Semestral and graduation theses in MatTek on subject In Vitro Fototoxicity</p> <p>Training course for toxicologists in the area in vitro (external, internal, industry, academia sector)</p> <p>over 80 presentations on conferences and meetings</p> <p>The Slovak Republic began with the training and education of persons under Art. 23 of Directive 2010/63 / EU. In the year 2015 were trained more than 700 of workers from breeding, supplying</p> | <p>Communication with public</p> <p>The detailed explanation of the principles of 3Rs are the main objectives of education</p> | <p>National networks is composed of 14 experts including PARERE and OECD member.</p> <p>On training was informed each breeder, supplier and user about the principles of 3Rs which to be followed in work</p> | <p>Grant student 30 000 eur (value of the materials)</p> <p><b>We do not have information about monetary</b></p> |

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|   | and user establishments   |   |  | <b>values of training</b> |
| <b>Organisations in the field of Three Rs</b> | <p>Slovak Toxicology Society (SETOX) –</p> <ul style="list-style-type: none"> <li>- Promotion of <i>in vitro</i> toxicology and its practical applications</li> <li>- Promotion the use of <i>in vitro</i> tests in the field of education,</li> </ul> <p>Organisation of scientific conferences on <i>in vitro</i> methods</p> | <p>The main aims:</p> <ol style="list-style-type: none"> <li>1. To support cooperation and exchange of information between SETOX and international professional organizations</li> <li>2. To support research and development in the field of toxicology</li> <li>3. To propose toxicological projects of research and development</li> </ol> | <p>SETOX is a body corporate and civil association associating professionals in the field of toxicology. SETOX was established in 2006.</p> <p>SETOX organises each 2 years in Slovakia interdisciplinary conference TOXCON (<a href="http://www.toxcon.sav.sk">www.toxcon.sav.sk</a>). The main topics of the conference in 2016 were environmental and industrial toxicology, food toxicology, experimental and clinical toxicology, and last but not least an important problem of the contemporary world – bioterrorism and related military toxicology.</p> |                           |

**4. Provide examples of the above described measures that have been successful in deriving specific benefits in each of the Three Rs.**

| Measure | Relevance to Replacement, Reduction or Refinement | Benefit   |
|---------|---|---|
|         | Each project must have                            | Reducing the number of animals used in the project. Improve the conditions for animals used in the project. Using the lowest animal species in the project. Improving |

**completed the principle of respect for 3 R.**

**Each breeder, supplier and user shall to respect with the requirements 3R**

**animal welfare by the breeders and suppliers.**