

Summary Report of GAs related to Open access and Ethics - Update

Deliverable 4.2.



Deliverable description.

Deliverable 4.2 contains the updated summary report of the Grounding Actions on Open Access and Ethics implemented by DUTH, IFNUL and UNIZG-FAZ. The activities included in this deliverable are based on work previously carried out in collaboration with WP2 (GAs Co-Design). This deliverable therefore provides a brief overview of each partner's institutional framework. This general introduction is followed by a summary of the activities of each task during months 16-22, including a description of the objectives, preparatory and communication activities with the emphasis on stakeholder mobilization. Each task concludes with a section on the barriers and facilitating factors encountered in the activities including, but not limited, to the challenges posed by the COVID-19 pandemic.

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| Deliverable | 4.2 Summary report of GAs related to Open Access and Ethics - Update |
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| Author(s) and Institution(s) | Prof. Elena Bužan (UP) Assist. Prof. Laura Iacolina (UP) dr. Felicita Urzi (UP) Aja Bončina (UP) Sandra Potušek (UP) |
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|-----------|---|----------|
| PU | Public | |
| CO | Confidential, only for members of the consortium (including the Commission Services) | X |
| CI | Classified, as referred to in Commission Decision 2001/844/EC | |

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1. Summary

The Deliverable includes the proceedings and results of the activities carried out under Work Package 4 "GAs on Open access/ethics" during months 16-22. It includes the collection of reports on the implementation of the different GAs on ethics and open access carried out by IFNUL (GA n. 7), UNIZG-FAZ (GAs n. 8 and 9) and DUTH (GAs n. 10 and 11). It describes how WP4 Leading Partner involved the so-called beginners and experienced partners in various tasks and activities aimed to support the GA implementation, monitoring and mutual learning of all participants.

This document also includes a description of all the steps taken by the partners during the reporting period, from preparatory activities to analysis of challenges and opportunities. In particular, we provide an overview of the objectives of each GA, the institutional framework, preparatory activities, the status of implementation and related communication activities, with a focus on stakeholder mobilisation. Finally, we address the challenges encountered and the solutions implemented or planned, and conclude with reflections on possible improvements and learning opportunities. All activities in WP4 are working towards the sustainable implementation of institutional change in the areas of ethics and open access, to support the development and embedding of a common scientific Code of conduct and to bridge the gap between society and stakeholders.

2. Acronyms

| Acronym | Definition |
|------------------|--|
| RESBIOS | RESBIOS Project: Responsible research and innovation grounding practices in Biosciences |
| RRI | Responsible Research and Innovation |
| WP | Work Package |
| GA | Grounding Action |
| EC | European Commission |
| H2020 | Horizon 2020 funding programme |
| RPOs | Research Performing Organizations |
| UNITOV | Università degli Studi di Roma Tor Vergata |
| IFNUL | Ivan Franko National University of Lviv |
| UNIZG-FAZ | Sveučilište u Zagrebu Agronomski Fakultet |
| DUTH | Dimokritio Panepistimio Thrakis |
| CSIC | Agencia Estatal Consejo Superior De Investigaciones Cientificas |
| K&I | Knowledge and Innovation Srls |
| EUSEA | Eusea - Europäische Gesellschaft Fur Wissenschaftsveranstaltungen |

| | |
|----------------|---|
| UBREMEN | Universitaet Bremen |
| UG | Uniwersytet Gdanski |
| ABI | Agrobioinstitute |
| UP | Univerza na Primorskem Universita del Litorale |
| AU | Aarhus Universitet |

3. Grounding Actions

| GA | Definition | Leading Partner |
|-----------|--|------------------------|
| 7 | Setting up a system of support for ethical publishing principles | IFNUL |
| 8 | Developing an Open Access policy at Faculty level | UNIZG-FAZ |
| 9 | Setting-up a system for fighting plagiarism and promoting ethical publishing behaviours | UNIZG-FAZ |
| 10 | Developing an open access and open innovation policy | DUTH |
| 11 | Redefining research ethics, procedures and codes on Biosciences emerging needs | DUTH |

4. Introduction

WP4 activities focus on two important RRI keys: Open access and Ethics. Under WP4, GAs aim to strengthen the capacity of RPOs to openly share data and research results, but also to develop and implement ethical strategies in the field of Biosciences. In this second deliverable, we describe the activities performed during M16-M22, focusing on the transition process between the conception of GAs to their implementation and further development, and aim towards sustainability.

The WP4 includes 4 consortium partners, University of Primorska serves as WP leader and mentor institution, where IFNUL, UNIZG-FAZ and DUTH act as RPOs. A brief institutional description and the RESBIOS teams are presented below

4.1. University of Primorska

The leading partner of this WP is the University of Primorska (UP), the third largest public university in Slovenia. The main objective of this university is to implement high quality study and research programmes and to connect them with the educational, intellectual and research potential in accordance with the EU strategies. It also strives for beneficial coexistence and close cooperation with Industrial stakeholders UP provides an active, interdisciplinary research and study environment based on two fundamental pillars: Mathematics, Science and Technology, and Humanities and Social Sciences. UP consists of six faculties and a research centre, and it employs 404 researchers and 23 technicians in 8 research groups.

Within the RESBIOS project, five members of the Faculty of Mathematics, Natural Sciences and Information Technologies from the Department of Biodiversity organise the activities with the project partners, and interact with each partner to support their implementation activities. The team includes Prof. Elena Buzan (WP4 leader), Vice dean for Quality Assurance at UP, Assist. Professor Laura Iacolina, Dr. Felicita Urzi and Sandra Potušek. Since October 2021, junior researcher Aja Bončina has joined the team to embed RRI principles and provide early career exposure and experience to young researchers.

4. 2 Ivan Franko National University of Lviv

Ivan Franko National University of Lviv (IFNUL) is a classical higher educational institution with strong scientific schools, ancient traditions, and modern innovation approaches. Its main goal is to provide a high educational and scientific level of teaching and to meet the cultural and social needs of people, society, and the state, in training qualified specialists. The structure of IFNUL consists of 19 faculties, an institute of advanced and pre-university education, 3 colleges, 7 scientific and research institutes, 6 museums, an observatory, a botanical garden, scientific libraries, as well as several scientific objects forming the national heritage of Ukraine, and other scientific departments. All together 144 departments and 2 general university departments exist at the university.

The Department of Biochemistry is responsible for the implementation of the RESBIOS project. It is part of the Faculty of Biology, which consists of about 130 people, including 13 professors, 75 researchers and 42 senior management and technical staff. As part of the RESBIOS project, a core team has been formed with the task of implementing the activities envisaged by the department. It is composed of four members: Prof. Nataliia Sybirna (team leader), Assis. Prof. Olena Stasyk (team member), Assis. Prof. Mariia Nagalievska (team member), Assis. Prof. Mariya Sabadashka (team member).

4. 3 University of Zagreb-Faculty of Agriculture

The Faculty of Agriculture (UNIZG-FAZ) was founded in 1919 as the fifth faculty of the University of Zagreb. The faculty is divided into divisions and departments and is headed by a Dean and four Vice- deans. The Faculty of Agriculture has a total of 28 departments, divided according to scientific and educational fields of interest and activities. The Faculty of Agriculture is fully dedicated to education and the development and dissemination of scientific and professional knowledge in the field of agriculture and related sciences. In 2020, the Faculty of Agriculture became a partner in the Horizon 2020 program RESBIOS.

The team consists of Assoc. Prof. Nikica Šprem, (team leader), and team members Assoc. Prof. Toni Safner, and Andrea Rezić mag. eng. agr. In addition to the core team, there is an extended team supporting the grounding actions: Sunčica Stipoljev, mag. oecol. et prot. nat, Assoc. Prof.

Tea Tomljanović, (Editor-in-Chief of the Department Journal), and Assist. Prof. Daniel Matulić Ph.D. (Editor-in-Chief of the Department Journal).

4. 4 Dimokritio Panepistimio Thrakis

Democritus University of Thrace (DUTH) was founded in 1973 and started its operation in 1974. It is spread over 4 cities (Komotini, Xanthi, Alexandroupolis and Orestiada), includes 7 campuses and 21 departments spread over 8 faculties, covering a wide range of disciplines, from exact sciences and engineering, to health, social sciences, and humanities. The Department of Molecular Biology and Genetics (MBG) of DUTH was established in 2000 in Alexandroupolis, Greece, with the vision of becoming a leading institution in education and research. MBG is the only university faculty in Greece offering a curriculum in Molecular Biology and Genetics, two fast-growing scientific disciplines that are at the heart of innovations in health, food, environment and agriculture. Today, MBG has 23 faculty members, 722 undergraduate students, 76 master's students, and 37 Ph.D. students. Most research efforts at MBG are aimed at creating actionable knowledge, with impact in three areas: 1) biomedicine, particularly research benefiting human health; 2) biotechnology, with emphasis on applied microbiology and the study of natural products; and 3) molecular agricultural biology, which focuses on the molecular biology of insects and microorganisms. In addition, MBG faculty conducts high-impact research in bioinformatics, computational and structural biology, ecology/biodiversity, pharmaceutical chemistry, and systems biology. MBG is the main DUTH unit participating in the ResBios project.

The core project management team at MBG-DUTH is responsible for the coordination and implementation of all actions and consists of the following MBG faculty members: a) Assoc. Prof. Aglaia Pappa (team leader), Prof. Katerina Chlichlia (team member), Assoc. Prof. Alex Galanis and Prof. Raphael Sandaltzopoulos (Vice Rector of DUTH).

5. Summary of the work done under WP4 in the months 16-22

5.1 General description

Activities in this WP are divided into 4 main tasks:

Task 4.1 - Support and coordination of GAs related to Open Access and Ethics (Leader: UP)

Task 4.2 - Implementation of GAs on Ethics – IFNUL (Leader: IFNUL)

Task 4.3 - Implementation of GAs on Open Access and Ethics - UNIZG-FAZ (Leader: UNIZG-FAZ)

Task 4.4 - Implementation of GAs on Open Access and Ethics – DUTH (Leader: DUTH)

The WP leader, in collaboration with the others expert partners, provided support to WP implementing partners, through a set of activities:

- Calendar of the WP activities, shared with the other partners;
- Bilateral virtual meetings (every fourth month) with the Task leaders, providing an update and state of the art of the WP;
- Group meetings for all WP4 participants to facilitate exchange of ideas and experiences;
- Bridging, on demand, between partners implementing GAs and other partners helping and mentoring, in order to solve specific problems or provide specific advice;
- Reporting coordination, by supervising the specific reports prepared by the RPOs implementing the GAs on the keys Open Access and on Ethics, and gathering these reports in a single report, and providing a summary (Deliverable D4.2).

The University of Primorska, as leading partner in this WP, organised meetings during the preparation activities of the GAs and in the implementation phase. For the future implementation, the UP core team prepared a detailed schedule to facilitate better communication between the implementing institutions. Meetings with individual institutions, tailored to their specific needs, are organised every 3 months, whereas every 4 months the UP hosts a WP4 meeting in coordination with UNITOV, to promote the exchange of ideas and experiences among the mentoring and implementing institutions. The full calendar of the

meetings is available on the RESBIOS Teams platform. Detailed implementation of the specific tasks and GAs are described in the next chapter.

During this reporting period, UP organised 5 virtual meetings (either with individual RPO institutions or WP4 group meetings) and on-site visit with UNIZG-FAZ (Fig.1). The core team was invited to participate in the III International Rupicapra Symposium (14-18 June 2021) organised by the UNIZG-FAZ team, as an external expert on ethics and as part of the scientific committee.



Figure 1: The core team on-site meeting with UNIZG-FAZ

In addition, on the occasion of Global Ethics Day, the UP team organised a special online public lecture by Assoc. Prof. Tomaž Grušovnik entitled "Ethics in Science". Announcement of the lecture was featured in the project newsletter and social media, but also on local news media regionalobala.com (Fig.2). The lecture is publicly available also on UP and RESBIOS YouTube channels (<https://t.co/2P29JH8xVZ?amp=1>).

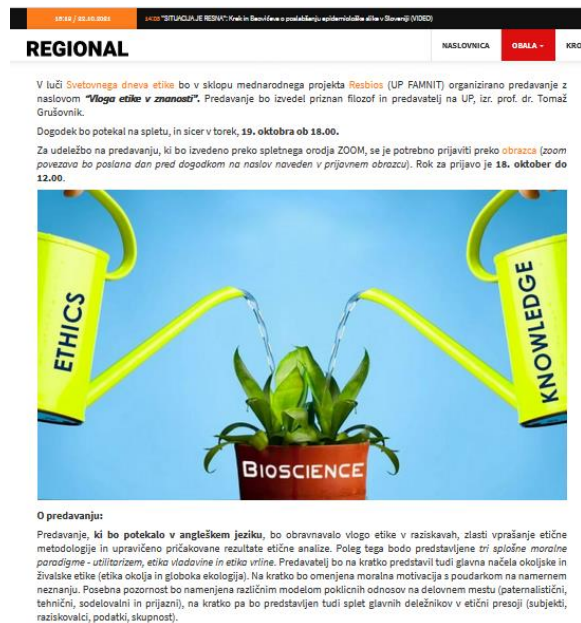


Figure 2: Media report about open lecture on Ethics

On the 19th October, UP organised a WP4 group meeting with the coordination of the WP7 multilateral learning Workshop, where the team provided a special focus and gave a presentation on "Overcoming Barriers to Stakeholder Mobilisation". This presentation was followed by an interactive workshop where online tools (Mentimeter) were used to discuss the importance of stakeholder engagement and stakeholder recognition for the implementation of specific tasks (Fig.3).

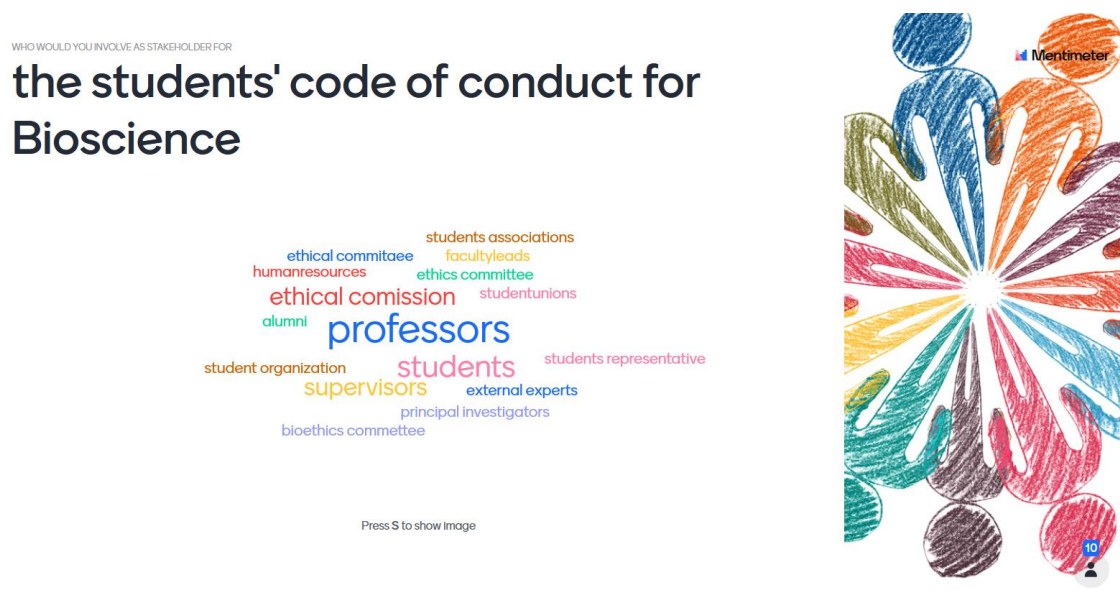


Figure 3: Responses of participants in recognising stakeholders for specific activity.

Two of the core team members (Prof. Elena Bužan and Sandra Potušek) participated at the event “**Ethical dilemmas in scientific research: inclusion of ethics at UP**” on the 20th October (available online <https://www.youtube.com/watch?v=H18JRP6ts5M>). The emphasis of the event was on providing researchers with information about activities and responsibilities of Ethical commissions, and a working group meeting on Ethics and integrity.

The core team of UP was responsible for coordinating and preparing the interim report for WP4, as well as preparing and delivering the present report (Deliverable 4.2). Both deliverables were prepared with participation of the entire WP4 group and delivered to leading partners of the project (UNITOV).

5.2 List of activities carried out at RPOs

Here is a list of the activities carried out by the implementing partners in M16-M22 on Open access and Ethics. A detailed description of the activities carried out can be found in the next chapter.

Task 4.2 (IFNUL)

- Group Workshop: Checking students' academic work for plagiarism
- State of the art analysis of data collection on academic honesty
- State of the art analysis of national legislation on open access and ethics
- Development of Code of conduct for undergraduate and graduate students

Task 4.3 (UNIZG-FAZ)

- Organisation and presentations of Ethics in Bioscience at the "Small School of Mammalogy 2021"
- Survey to assess student knowledge of ethical principles
- Analysis of the state of the art in open access publishing over the last 10 years
- Presentation of the RESBIOS project and findings at the National Open Data Conference - NODC2021
- Presentation of the RESBIOS project and results at the 8th Conference on Scientific Communication
- Inclusion of ethics policy procedures in 3 courses
- Promotion of ethics in the Lifelong Learning (LLL) program "Botanical and geographical

origin of honey"

- Creation of a "Hunting Group" as an extracurricular activity focusing on ethics and animal welfare
- Presentation of the RESBIOS project by the core team at the PhD Day
- Courses in ethics at international events: Green touch of Medvednica (10 - 11 June 2021),
-III International Rupicapra Symposium (14 - 18 June 2021)
- Training program for members of wild boar emergency teams (July 2021)
- State-of-the-art analysis on education, open access and ethics

Task 4.4 (DUTH)

- State-of-the-art analysis on ethics and research integrity
- Mobilization of internal mechanisms to achieve structural change
- Lectures on OA at the undergraduate level
- Design and organization of the 1st annual workshop on Open Access
- Establishment of a review group on research ethics and integrity
- Training course in Bioethics and Integrity in Science

6. WP4 Implementation

6.1 Implementation of GAs on Ethics – IFNUL

Task: 4. 2. Implementation of GAs on Ethics – IFNUL

Grounding actions: GA 7. "Setting up a system of support for ethical publishing principles"

Core team: the core team involved in the implementation of the WP4 activities is composed by 4 members: Prof. Nataliia Sybirna (Team leader), Assis. Prof. Olena Stasyk, Assis. Prof. Mariia Nagalievska, Assis. Prof. Mariya Sabadashka.

Task participants: Associate Professors of Department of Biochemistry, Research and Development Department of Ivan Franko National University of Lviv, Scientific Center for Medical and Biotechnical Research of the National Academy of Sciences of Ukraine, bachelor, master and PhD students of Faculty of Biology

Table 1: Task implementation of GAs-IFNUL

| | |
|-------------------------------|--|
| Objective of the task | The primary goal of this GA is to conduct and maintain relationships in a manner characterized by academic honesty, integrity in research, authenticity and dignity, and mutual respect for the contributions of all members of the scientific community. Academic honesty is a promise of quality education and sustainability. Improving academic culture increases the value of higher education, the reputation of students and researchers, enhances the prestige of teachers, and builds confidence in the learning outcomes and scientific achievements of Ukrainian scientists. To disseminate the results of this GA, a teaching manual for undergraduate and graduate students will be prepared. |
| Preparation activities | <p>The available data on academic integrity and bioethics were analysed (Law of Ukraine on Education, Section V on Ensuring the Quality of Education, Article 42 on Academic Integrity; Law of Ukraine on Higher Education, Law of Ukraine on Protection of Animals from Cruelty, Regulations on Ensuring Academic Honesty at the National Ivan Franko University of Lviv, Code on Academic Honesty at the National Ivan Franko University of Lviv, Declaration on Compliance with Academic Honesty by the Employees of the National Ivan Franko University of Lviv, Declaration on Compliance with Academic Honesty by the Applicants for Higher Education Studies at the National Ivan Franko University of Lviv).</p> <p>For the elaboration of the Code of Conduct for undergraduate and postgraduate students of the Faculty of Biology, interactive discussions were organized, registration forms and formal consent were prepared for participants in lectures</p> |
| Implementation | GA n.7.3 Introduction to an anti-plagiarism system |

In this reporting period (June, 2021) a practical group workshop: Checking students' academic papers for plagiarism was conducted.

All together 63 undergraduate theses were checked for percentage matches using Strike Plagiarism software (Fig.4)

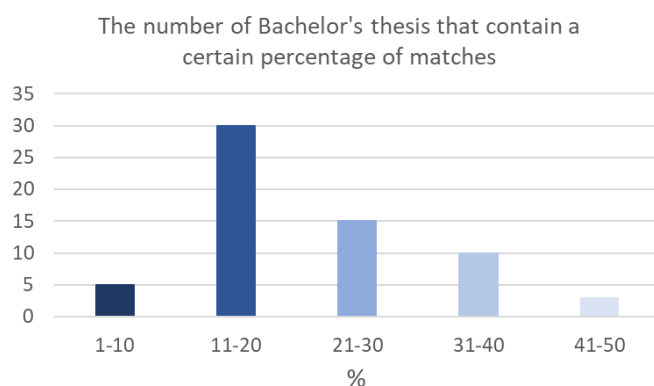
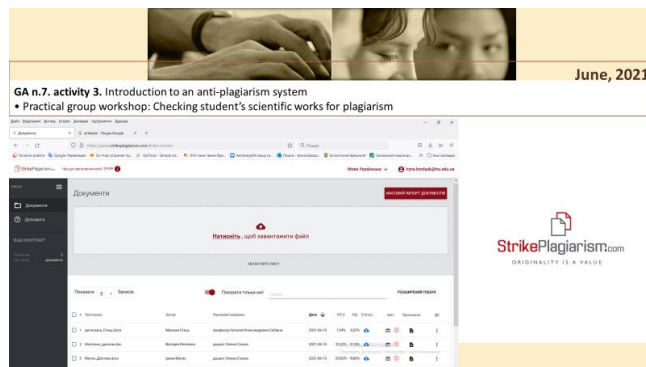


Figure 4. Practical group workshop: Checking student's scientific works

GA n.7.4 Developing of Code of Conduct for students and PhD students

The IFNUL team also started a data collection on academic honesty. They analysed the above-mentioned IFNUL regulatory documents and the national legislation of Ukraine. They also evaluated the Code of Conduct for Biosciences of the University of Primorska and the codes of ethics and policies collected on PRO-RES (Fig.5). This action became a stepping stone for the development of a Code of conduct for undergraduate and graduate students in the Faculty of Biology.




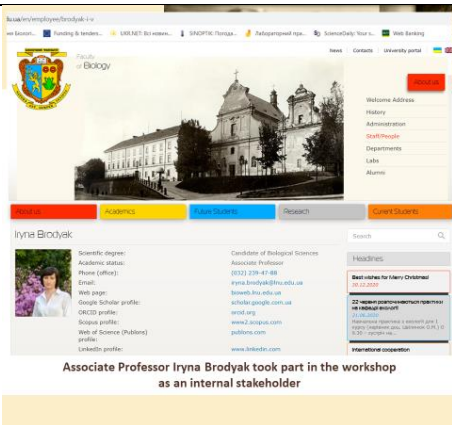
| | |
|---|--|
| | Figure 5. Core Team in the process of analysing of Ethics Codes and Guidelines collected in PRO-RES |
| Communication activities | Diffusion of information among internal and external stakeholders, as well as potential participants via personal email invitations and social media posts (Facebook, Twitter) |
| Number of participants in the task | 63 students, 4 PhD students, 5 lecturers, 2 researchers |
| Stakeholders mobilisation | <p>In preparing the interactive discussion for undergraduate and graduate students on academic honesty, research integrity, authenticity and dignity, the core team communicated with Doctor of Physics Yurii Plevachuk (Ivan Franko National University of Lviv, Head of the Department of Research and Development), Vitaliy Kukharskyi (Ivan Franko National University of Lviv, Vice-Rector for Research, Teaching and IT - Development), Yevhen Filiak (Limited Liability Company InSpirito LLC INSPIRITO).</p> <p>In addition, Mykola Chaschin (Director of the "Scientific Center for Medical and Biotechnical Research of the National Academy of Sciences of Ukraine") was invited as an external stakeholder to discuss bioethics policy in Ukraine. As a result of this meeting, and the discussion with involved actors regarding RRI principles, the core team members were invited to participate in the Eighth National Congress on Bioethics (Fig.6).</p>  <p>15th October, 2021</p> <p>Mykola Chaschin Director of "Scientific Center for Medical and Biotechnical Research of the National Academy of Sciences of Ukraine"</p> <p>www.biomed.nas.gov.ua</p> |

Figure 6. Meeting with external stakeholder Mykola Chaschin

Doctor of Physics **Yurii Plevachuk** and PhD **Ivan Kun'о** (Ivan Franko National University of Lviv, Vice-Head of Research and Development Department) are also closely involved in the preparation of the Code of Conduct for students and PhD students.

Associate Professor **Iryna Brodyak**, as an internal stakeholder, took part in the Practical group workshop: Checking student's scientific works for students and PhD students (Fig.7).

| | |
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| |  <p>Figure 7. Practical group workshop with participation of internal stakeholder Associate Professor Iryna Brodyak</p> |
| Obstacles and facilitation factors | Not applicable. |
| Future directions towards achieving sustainability | <p>In the next period we will continue to work on organising and conducting:</p> <ul style="list-style-type: none"> - Interactive discussions on the ethical framework of the law regulating the use of animals in research, bioethical problems on euthanasia, cloning and transgenic organisms, cell lines and yeasts as artificial models as an alternative to the use of animals in scientific research. - Round table discussions on the ethical principles in higher education: plagiarism as a form of academic dishonesty. Academic anti-plagiarism culture, international citation styles and references in academic papers. - Introduction to an anti-plagiarism system. Practical group workshop: Checking students' academic papers for plagiarism. <p>Core team will also complete the preparatory phase and publish a code of conduct for undergraduate and postgraduate students.</p> |
| Self-evaluation | <p>Based on the General Formative Evaluation Grid provided by Aarhus University and with support from K&I, a self-evaluation was carried out.</p> <p>All planned activities were conducted according to phasing and scheduling presented in "RESBIOS Project: Collection of GA Detailed Plans".</p> |

6.2 Implementation of GAs on Open Access and Ethics - UNIZG-FAZ

Task 4.3 - Implementation of GAs on Open Access and Ethics

Grounding Actions: GA n. 8 "Developing an Open Access policy at Faculty level" and n. 9 "Setting-up a system for fighting plagiarism and promoting ethical publishing behaviours"

Task leader: University of Zagreb, Faculty of Agriculture (UNIZG-FAZ)

Core Team: Assoc. Prof. Nikica Šprem, Assist. Prof. Toni Safner, and Andrea Rezić mag. eng. agr.

Task participants:

UNIZG-FAZ core and extended team, University of Zagreb, International Relations office, librarians, researchers, Department and faculty high level representatives (heads, vice -deans), undergraduate, graduate, and PhD students, TODO open data research group, lecturers, NGO (Revive and Restore, Park Biokovo) representatives of government bodies (Ministry of Higher education), students' associations, University of Zadar, Department of Information Sciences, Croatian Association for Scholarly Communication (CROASC) Zagreb, University of Zagreb, Faculty of Food Technology and Biotechnology, Ruđer Bošković Institute, the Croatian Science Foundation.

Table 2: Task implementation of GAs-UNIZG-FAZ

| | |
|------------------------------|--|
| Objective of the task | <p>The overall goal of GA8 is to propose a faculty strategy and specific policies to support OA publishing and research.</p> <p>If such a strategy can be formally accepted at the faculty level, it would provide a framework to motivate existing and young researchers to accept OA as a publishing method.</p> <p>For such a strategy to be successful and accepted on a sustained basis it is necessary to create a positive environment for the acceptance of OA (promotion), and to propose specific material means to overcome potential barriers to OA publishing (funding). The best means of promoting journals in a competitive scientific community is through the quality of the journals and the speed of the publication process, as well as the social component. Funding for OA publication should be included in project proposals (where possible). In cases where this is not possible, faculty may encourage OA publication by funding high-quality publications in high-quality OA journals. The development and presentation of the two strategies described above for promoting OA is the desired overall goal of this action.</p> <p>The second main objective of this task is to promote ethical principles in the Faculty of Agriculture. For GA9, three ethical implications are considered: Ethics in Study, Ethics in Research, and Ethics in Publishing.</p> |
|------------------------------|--|

| | |
|--------------------------------------|--|
| <p>Preparation activities</p> | <p>Preparatory work for GA8 included the following activities:</p> <ol style="list-style-type: none"> 1. Data on the state of the art in OA publishing was collected 2. Monthly core team meetings to discuss progress 3. Meetings with stakeholders were held whenever the discussion on specific topics was required. Stakeholders included journal editors, faculty, the Open Data Research Group, and researchers. <p>Preparatory work for GA9 included the following activities:</p> <p>Activities 9.5/9.6/9.9 - The core team met with professors and assistants working at the Department of Fisheries, Apiculture, Wildlife Management, and Special Zoology, as well as professors in the Department of Plant Breeding, Genetics, and Biometrics.</p> <p>Professors or TAs who teach the courses prepare or update PPT presentations for ethics-based lectures.</p> <p>Activity 9.5 - Organize and prepare presentations for "Small School of Mammalogy 2021".</p> <p>Organize events and prepare presentations and posters to promote project activities.</p> <p>Activity 9.7 - Core team prepared an exam/survey to assess students' knowledge of ethical principles.</p> <p>Activity 9.8 - Organization of Core Team Meetings. The core team organized meetings several times a month to review the actions carried out so far and to decide how to carry out the following actions.</p> |
| <p>Implementation</p> | <p>The implementation of the GAs on Open Access included the following activities:</p> <ol style="list-style-type: none"> 1. The collection of data on OA publications over the last 10 years and the analysis of funding sources. 2. The results were evaluated and procedures to improve OA publishing were formalized accordingly. 3 These procedures were presented to the faculty administration and researchers in the Faculty of Agriculture. Feedback was obtained. <p>In addition, the results of the state-of-the-art analysis were presented by a member of the core team, Assistant Professor Toni Safner, who presented the project and results at the National Open Data Conference - NODC2021, held as a hybrid event on September 20-22, 2021 (Fig.8).</p> <p>The core team member (Andrea Rezić) participated in PubMet 2021, the 8th Conference on Scientific Communication in the Context of Open Science, organized by the College of Zadar, Department of Information Sciences, Croatian Association for Scholarly Communication (CROASC), Zagreb, College of Zagreb, Faculty of Food Technology and Biotechnology, and Ruđer Bošković Institute, Zagreb.</p> <p>The conference was held from September 15-17, 2021. In addition to the topics of Open Access and Open Science, one of the main</p> |

discussions at the conference was an article processing charge (APC) (Fig.9).

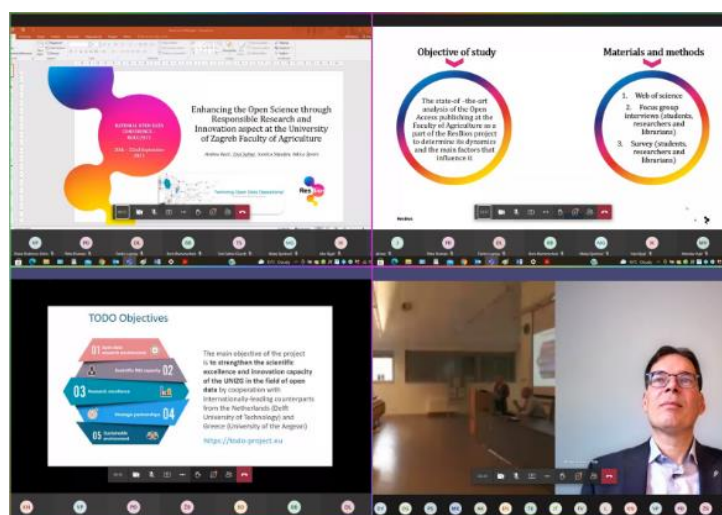


Figure 8: Conference on open data – NODC2021 that was held in hybrid mode from 20 – 22 September 2021

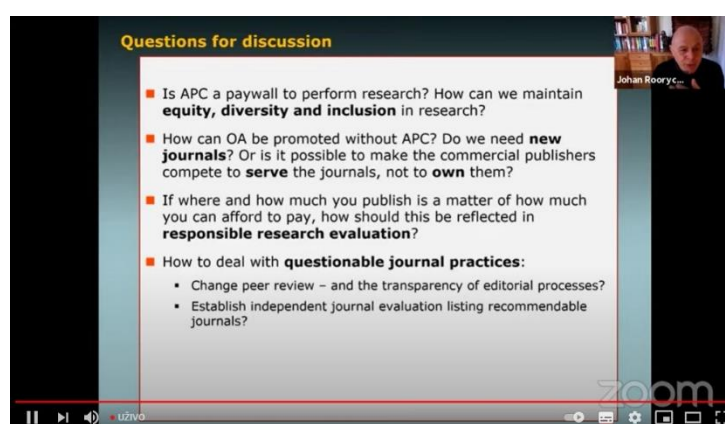


Figure 9: Presentation at 8th Conference on Scientific Communication

The implementation of activities under GA9 is closely linked to the implementation of activities GA3 and GA4 (activities 3.3/3.6/4.4/4.5/4.9/4.17). The figures of events are already included in the WP3 report (WP3: Figure 3; Figure 4; Figure 5; Figure 6; Figure 7 and Figure 8).

Activity 9.5: Ethics Policy Procedures were added as part of the following courses (Fig.10):

- Wildlife Management,
- The Scientific Research System,
- Caninology



Figure 10: The “Wildlife management” course. Students at fieldwork learn about animal welfare and ethical hunting.

These courses took place in the summer term 2020/2021.

The "**Small School of Mammalogy 2021**" was organized in collaboration with the Association of Biology Students - BIUS, Mammalogy Section and was held on October 9-10, in Mrkopalj, Croatia.

The "Small School of Mammalogy" is a project organized by BIUS Mammalogy Section once a year since 2016. The project brings together all diversity of students, from those studying biology or a related subject, to those who have chosen a completely different career path but are interested in mammals, and brings them together with experts in the field of mammalogy. The idea behind this project is to share knowledge, give students an insight into their possible future careers and stimulate discussion through lectures and fieldwork.

Two faculty members introduced to the internal students, but also to other participant and biology students to topics rarely covered in conversations about mammalogy:

- Assis. Prof. Toni Safner (lecturer, internal stakeholder) talked about planning research and methods commonly used in research, as well as ethics in the biological sciences (Fig.11).
- Krešimir Kavčić, mag. ing. agr. (PhD student, assistant, internal) spoke about mountain artiodactyls and how to conduct field research on them (ethics in research).



Figure 11: Small school of Mammalogy event

Activity 3.3: The Department of Apiculture (prof. Dragan Bubalo - Head of the Department, internal), Ph.D. and Assis. prof. Saša Prđun (Lecturer, internal) organized a **LLL program "Botanical and geographical origin of honey" 02-03 July 2021**. The participants were employees of honey quality control departments (external stakeholders).

Activity 4.4: Assoc. prof. Nikica Šprem (leader of the core team) and Krešimir Kavčić, mag. eng. agr. from the Department of Fisheries, Apiculture, Wildlife Management and Special Zoology **established a "Hunting Group" as an extracurricular activity**. For the academic year 2020/2021, a total of 14 students applied to participate in this activity.

Activity 4.5: Sunčica Stipoljev (researcher, PhD student, internal) as a member of the extended team presented **the RESBIOS project and ethics in research and publishing at the "PhD cafe"**. This event was organized in collaboration with the Croatian Science Foundation on September 8th.

Ethical principles were promoted as part of activity 4.9: The Faculty of Agriculture, in cooperation with the Faculty of Forestry and Wood Technology and the Faculty of Food Technology and Biotechnology, organized the **"PhD Day"**. This event was organized in the form of a small conference where students had the opportunity to present their research. PhD students presented their research in the form of posters or oral presentations and all studies were published in a book with abstracts.

Sunčica Stipoljev gave an oral presentation about the RESBIOS project and the ethical principles she followed during her studies, research and publication of the results. Ethics in research and publication was presented by Andrea Rezić in a short presentation in the poster area.

The various events organized by the Faculty of Agriculture were used to present the RESBIOS project and ethics as part of RRI.

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| | <p>The core team and the extended team presented ethics at the following events:</p> <ul style="list-style-type: none"> - Green touch of Medvednica (from 10 - 11 June 2021). - III International Rupicapra Symposium (from 14 - 18 June 2021). - Training program for members of wild boar emergency teams - special part (09 - 15 July 2021). <p>Activity 9.6: In the academic year 2020/2021, a total of 25 PhD students took the course "The Scientific Research System", in which ethical principles were presented as part of the regular lectures.</p> <p>Activity 9.7: Students enrolled in the above courses were assessed using a survey. The survey included questions about education, open access, and ethics. To date, 23 responses have been collected (for graphic display of results please refer to Appendix 2).</p> <p>Four questions were asked about ethics:</p> <p>1. Have you ever clicked on "Ethics" under the student's section of the Faculty of Agriculture website and read the Code of Conduct during your studies and the Ethical Principles in Research and in the Publication of Scholarly Work?</p> <p>Most of the assessed students (60.9%) have read the rules and are familiar with the ethical principles. 34.8% of them have never read the code of conduct of the faculty of</p> <p>agriculture. A small number of students (4.3%) have only briefly looked at the code of conduct.</p> <p>2. Have you ever used the PlagScan software when writing your seminar paper, thesis, master's thesis, or other academic publications? Half of the respondents use the PlagScan software, while 4.4% of the students use another software to fight plagiarism.</p> <p>3. How interested are you in receiving information about the following measures and the responsible bodies and persons? Tick the box for each question.</p> <p>Most students are interested in the special module (course) on conducting research and writing scientific papers according to ethical principles (citation rules and avoiding plagiarism) at undergraduate and graduate level (writing seminars, theses and dissertations, and studies for publication in a scientific journal).</p> <p>4. What support do you need in ethical issues? Some of the student responses/questions were:</p> <p>a. How to act in situations where professors discriminate against students (gender, age, politics, etc.),</p> |
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| | <p>b. The need for additional training in writing seminars and theses and in conducting research according to ethical principles and publishing scientific studies.</p> <p>Activity 9.9: At the beginning of the winter semester 2021/2022, the ethical principles were implemented in the course "Hunting".</p> |
| Communication activities | <p>The core team used the Zoom platform, meetings in-persons, email and phone to conduct meetings with internal and external stakeholders. Email correspondence, phone calls, and in-person meetings were used to prepare for activities. The faculty website was used to announce events.</p> <p>The PubMet 2021 conference was conducted via Zoom and live via the YouTube channel. Participation in the NODC21 conference was done through the MS Teams platform. Slack was used as a communication tool with RESBIOS partners.</p> <p>Students were evaluated via a survey. Attendance at the III International Symposium was done via the Zoom platform, and other events mentioned were done in-person.</p> |
| Number of participants in the task | <p>In addition to the core team, those involved in the implementation of GA8 were:</p> <ul style="list-style-type: none"> - Assoc. Prof. Darko Vončina, Vice Dean for Science and International Cooperation (internal). - Vanja Masnov, MSc, librarian at the Central Agricultural Library (internal). - 3 Members of the editorial team of the journal <i>Agriculturae Conspectus Scientificus</i> (internal). <p>Number of participants in the NATIONAL OPEN DATA CONFERENCE - NODC2021: 40 participants.</p> <p>Number of participants in PubMet 2021, the 8th conference on scholarly communication in the context of Open Science: ~80 participants.</p> <p>Number of students taking courses:</p> <ul style="list-style-type: none"> - Wildlife Management; summer term 2020/2021: 14 graduate students. - Caninology; summer term 2020/2021: 54 graduate and undergraduate students. - The Scientific Research System; academic year 2020/2021: 25 graduate students. - Hunting; winter semester 2021/2022: 90 undergraduate students. <p>Number of participants in the "Small School of Mammalogy 2021": 25 students (external students) and 5 lecturers (2 internal and 3 external).</p> |

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| | <p>Number of participants in the LLL program "Botanical and geographical origin of honey": 2 lecturers (internal) and 11 participants (external)</p> <p>Number of participants in the "Hunting group": 14 students (internal)</p> <p>Number of participants in "PhD cafe": 4 lecturers (1 internal, 3 external) and 15 participants (external).</p> <p>Number of participants in "PhD day": 71 participants</p> <p>Number of participants in the events: Green touch of Medvednica (10 - 11 June 2021): 80 participants</p> <p>III International Rupicapra Symposium (14 - 18 June 2021):</p> <p>UP members were part of the scientific committee (Prof. Elena Bužan and Assis. Prof. Laura Iacolina), ResBios Core team were part of Organizing committee.</p> <p>In addition to the Organisation and Scientific committees, 80 participants attended this event (39 oral and 10 poster presentations - 2 oral presentations were given by the core team and the extended team). The remaining participants were students, scientists, national representatives (ministries, government agencies), NGOs (Help Nature, Croatian Hunting Association, Biokovo Nature Park).</p> <p>Training program for members of wild boar emergency response teams - special part (from 09 - 15 July 2021). The training program was conducted in two semesters. The program was attended by a total of 650 external participants.</p> <p>The number of participants filled out a survey: 23 students (internal).</p> |
| Stakeholders mobilisation | <ul style="list-style-type: none"> - Faculty leadership (deans and vice- deans, internal) - the results of the state-of-the-art analysis were presented to them and their feedback was solicited. - Members of the editorial team of <i>Agriculturae Conspectus Scientificus</i> (internal) participated in the discussion on proposed procedures to improve OA publishing. - The Central Agricultural Library (Vanja Masnov, MSc, Librarian, internal) participated in the discussion on proposed procedures to improve open access publishing. - Open Data Research Group (internal) - participated in the organization of our presentation at the conference. - The head of the department (Prof. Dragan Bubalo, Ph.D.) in collaboration with a lecturer from the same department (Assistant Professor Saša Prđun, Ph.D.) was involved in the implementation of the LLL program and transfer of knowledge about RRI to the staff of the honey quality control departments. - During the organized events, the project and project activities were presented to various internal and external stakeholders (undergraduate students, graduate students, lecturers, researchers, representatives of faculty and university leadership; professors, representatives of |

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| | <p>Horizon Europe NCP, Senior Adviser for International Academic Cooperation, non-governmental organizations, citizens, hunters and gamekeepers, ministries, government agencies) using presentation and poster presentations conducted in presence or via Zoom application.</p> <p>- Students were taught ethical behaviour in regular lectures and classes. A survey was conducted to assess student knowledge of RRI and to gain insight into the current state of ethics, OA, and education in the Faculty of Agriculture.</p> |
| Obstacles and facilitation factors | <p>Since the faculty leadership has changed in October 2021, the discussion about the implementation of the proposed procedures to improve OA publishing needs is to be done with both the new and the old leadership (they are included in the report). Initial contacts have been made with the new Associate Dean for Science to arrange meetings. For GA9, one of the obstacles was low student interest in completing the surveys.</p> |
| Future directions towards achieving sustainability | <p>Meet with representatives of the new leadership and present the strategic policy plan to them. Gather their feedback and incorporate it into the new version of the policy, along with feedback from the "old" leadership and other researchers.</p> <p>Future activities of GA9. will continue with the implementation of the ethics policy in undergraduate, graduate, and postgraduate lectures in the Department of Fisheries, Apiculture, Wildlife Management and Special Zoology. The core team will encourage departmental researchers, as well as other faculty colleagues, to incorporate RRI aspects into their lectures, especially ethics lectures, and to promote PlagScan software for reviewing student theses and researcher manuscripts. The sustainability plan, developed in collaboration with the K&I partner, will contribute to planned future activities.</p> |
| Self-evaluation | <p>Based on the General Formative Evaluation Grid provided by Aarhus University and with support from K&I, a self-evaluation was carried out.</p> <p>The core team has managed to carry out most of the planned activities. The only delay is in obtaining feedback from the newly established faculty leadership and revising the proposed OA policy. However, contacts have already been made with the new leadership, so there will be no significant delay.</p> <p>Although it was not planned, the core team managed to attend the national conference on open data with the results of the state-of-the-art analysis. This was an important venue to give further recognition to the RESBIOS actions. Although student interest in following the survey and code of conduct was generally low, the other activities of GA9 were successfully implemented.</p> |

6.3 Implementation of GAs on Open Access and Ethics - DUTH

Task: 4. 4. Implementation of GAs on OA and Ethics – DUTH

Grounding actions: GA n. 10 "Developing an open access and open innovation policy" and n.11 "Redefining research ethics, procedures and codes on Biosciences emerging needs"

Core team: The Project Management Core Team at MBG-DUTH is responsible for the coordination and implementation of all the actions of the RESBIOS program at DUTH and consists of the following MBG faculty members: a) Associate Professor Aglaia Pappa (PI of the DUTH team in RESBIOS project), b) Professor Katerina Chlichlia (Head of the Department of Molecular Biology and Genetics), c) Associate Professor Alex Galanis (Co-PI of the DUTH team in RESBIOS project), and d) Professor Raphael Sandaltzopoulos (Vice-Rector of DUTH, Administrative Affairs)

Participants:

1. The Vice-Rector of DUTH (Administrative Affairs).
2. The Head of the Department of Molecular Biology and Genetics.
3. Department and Faculty members and researchers.
4. Undergraduate project students, M.Sc and Ph.D. students.
5. The Director in the Library & Information Center of the University of Patras.
6. The DUTH Central Library and Information Center Supervising Committee.
7. The Head of the Library of the School of Education, DUTH.
8. The Head of the Library of the Law School and the School of Social, Political and Economic Sciences, DUTH.
9. The Head of Library of the School of Health Sciences, DUTH.
10. Members of Democritus University of Thrace Research Ethics Committee.

Table 3: Task implementation of GAs-DUTH/GA10

| GA number | GA n. 10 Developing an open access and open innovation policy |
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| Objective of the task | The overarching goal of GA n. 10 is to build an academic environment with an open access culture, and to develop open access and open innovation policies. Monitoring approaches will be applied to identify needs and gaps in this area. Relevant stakeholders will be mobilised and actions will be taken to promote open access educational activities and increase the visibility of MBG-DUTH scientific and research activities. Finally, an open access plan and open innovation policy will be developed in collaboration with university authorities. |
| Preparation activities | Preparatory activities included: <ol style="list-style-type: none">1. The creation of a questionnaire to determine the preferences of DUTH researchers for publishing their research results in OA journals.2. Communication with potential referees for the annual workshop on OA |

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| | <p>3. The design of a website on RESBIOS activities at MBG-DUTH (www.resbios.mbg.duth.gr).</p> <p>4. The production of relevant teaching material.</p> |
| Implementation | <p>The work implemented under Task 4.4 and GA n.10 is covering the period from April to October 2021 (months 16-22).</p> <p>GA n.10.1. Collection and analysis of the questionnaires and preparation of the report. The MBG DUTH core team submitted the questionnaire to the University Ethics and Research Integrity Committee for approval. Final approval was granted on 09.06.2021 at the 11th meeting of the committee. The questionnaire was then distributed by email to departmental and faculty members, researchers at all levels, Masters/PhD students, and graduate students in biological sciences at DUTH. The questionnaire was open from 10/06 to 20/06/2021. A total of 104 people participated. The results of the survey are presented in the Appendix 1.</p> <p>The questionnaire was very well received by the participants; researchers from all age groups accepted the invitation and completed the survey. This gave us a very good insight into the attitudes of researchers at different career stages and informed us of their individual needs. In terms of gender representation, female participants outnumbered male participants. This could be since most PhD students and researchers in our institution identify as female. The main findings of the survey regarding the participants' opinion on the concepts of responsible research and innovation are that almost 70% of the participants were familiar with the term RRI, but 30% stated that they were not well informed or not informed at all. However, most participants (88%) agreed that all societal stakeholders should be involved in the research and innovation process to ensure that research objectives are in line with societal values, needs and expectations. Most participants (101 out of 104) considered and included societal needs at least to a small extent. Attitudes toward public science communication were very positive, although the need to build training capacity for communication skills was emphasised. Almost all participants agreed with the importance of training life scientists in bioethics and code of conduct issues, with 90% stating that they are knowledgeable about these topics, while about 10% stated that they have excellent knowledge.</p> <p>The main findings of the survey regarding participants' attitudes towards open access (OA) in Biosciences, are:</p> <ul style="list-style-type: none"> - Participants of all ages are not very well informed about the ways of OA publishing or about European and national policies on OA. In addition, most participants do not use the national or institutional repository for their research. - Participants across all age groups recognise the importance of OA publishing infrastructure and consider OA policy planning at HEI level to be very important. - The main limiting factor that discourages authors from OA publishing is the very high article processing fees, which are usually not covered by the university. |

GA n.10.2 Mobilization of internal mechanisms.

The results of the survey on Open Access distributed among academic members and researchers working in the field of Biosciences were presented to the DUTH Central Library Supervising Committee and the Vice Dean for Administrative Affairs (responsible for the library). Discussions were initiated on activating internal mechanisms to expand the institution's ability to support OA for its academic members and to prepare the field for the development of an OA and Open Innovation policy.

GA n.10.3. Introduction of lectures on OA at postgraduate level.

The Core Team proposed the introduction of lectures on Open access in the Directorate of MSc programs "Translational Research in Bioscience" and "Infectious Diseases - International Medicine: From Bench to Bedside" from MBG-DUTH. On 25/04/2021, Dr Ioannis Tsakonas, Director of the Library and Information Center of the College of Patras, gave a lecture delivered virtually via Zoom. Representatives from DUTH Central Library and Greek academic libraries were also invited speakers. More than 30 M.Sc./PhD students participated in the event (Fig.12).

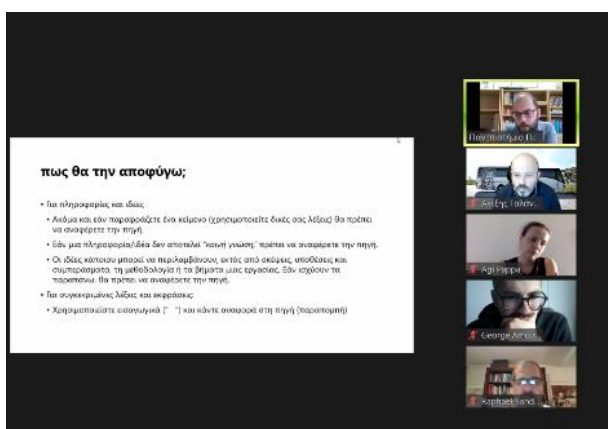



Figure 12: online lecture on Open Access and Integrity in Science by Dr. Tsakonas

GA n.10.4. Design and organization of an annual workshop.

The first annual workshop was held on 02.06.2021, virtually, with Zoom (Fig.13). The duration of the event was 3 hours. The topics discussed were: Open Access policies at the Greek and international levels, the role of repositories, the contribution of libraries in promoting Open Access, and the supportive role of the Association of Hellenic Academic Libraries in promoting Open Access among faculty members and researchers. The current situation of Open Access at DUTH was also presented, related issues were recorded, and a discussion was held with the Vice-Rector for Administrative Affairs, Prof. R. Sandaltzopoulos, who is also a member of the MBG-DUTH RESBIOS Core Team. The event was attended by a total of 39 people. Four invited speakers participated in the event.

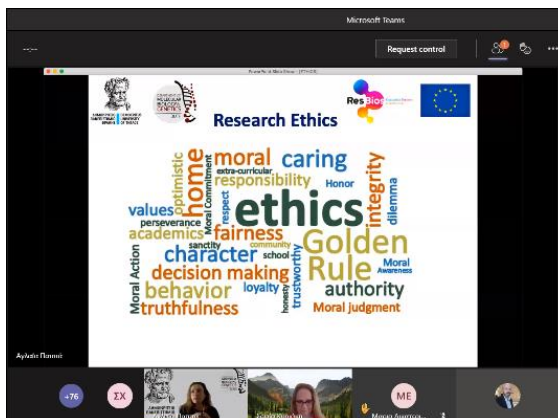
In detail:

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| | <p>Dr. Ioannis Tsakonas, Director in the Library & Information Center, University of Patras, and member of the Executive Board of LIBER and member of the Board of Directors of the Association of Hellenic Academic Libraries</p> <p>Vasiliadou Maria - Stella, Archivist, Librarian - Head of the Library of the School of Education, DUTH</p> <p>Rapanaki Marina, Librarian - Head of the Library of the Law School and the School of Social, Political and Economic Sciences, DUTH</p> <p>Kirkoudis Theodoros, Librarian - Head of Library of the School of Health Sciences, DUTH</p>  <p>Figure 13: Annual workshop in Open Access</p> |
| Communication activities | <p>Details of all activities regarding this GA and the relevant OA material are now available on our dedicated website (www.resbios.mbg.duth.gr). The Zoom platform and Microsoft Teams were used to organize meetings, talks and workshops. Publicity and invitations to participate in the events were sent by e-mail.</p> |
| Number of participants in the task | <ul style="list-style-type: none"> - 104 people participated in the survey (questionnaire on Open access). - More than 30 M.Sc./PhD students attended the lecture on open access by Dr. Tsakonas on 25.04.2021. - The first annual workshop on Open access, held virtually on 02.06.2021, was attended by a total of 39 people. |
| Stakeholders mobilisation | <p>The following stakeholders were involved in the activities:</p> <ul style="list-style-type: none"> -Department of Molecular Biology and Genetics (training activities). -Directorate of M.Sc. programs "Translational Research in Biomedicine" and "Infectious Diseases-International Medicine: From Bench to Bedside" in MBG (supporting training and educational activities). -Research Diploma Thesis Committee (educational activities). -University administration (Dean's office - promotion of RRI governance). -DUTH Central Library (educational activities, open access networking). -DUTH Central Library and Information Center supervising committee (improvement of repository services). - Association of Hellenic Academic Libraries. <p>Discussions with stakeholders were conducted either by telephone or email. Meetings and round tables were organized in physical presence or virtually,</p> |

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| | where the objectives of the project and the promotion of the RRI principles were discussed among the participants and the joint organization of the relevant OA events was agreed upon. For the librarians of our college, it was the first time that they were invited by the faculty to present the situation of the library and its possibilities, and to describe the situation of open access in public. Although hesitant at first, they felt very appreciated and excited about this initiative and their collaboration with faculty members. We asked the local Chamber of Commerce to organize a workshop event on open access infrastructures but agreed that it would be more beneficial for local businesses to hold a live workshop rather than a virtual one as soon as pandemic condition allowed, to maximize interaction and generate interest. |
| Obstacles and facilitation factors | All planned activities except the workshop on OA infrastructures went according to the original plan. There was a delay in the distribution of the questionnaire mainly due to bureaucratic problems as we were waiting for approval from the Research Ethics Committee at our University. All the activities carried out were virtual, due to COVID-19. The introduction of the new training courses was positively received, and the open access workshop aimed at faculty members and researchers was positively commented on by the participants. The organization of the workshop for the OA infrastructures activities on MBG-DUTH with interested end users and stakeholders was postponed due to the current situation with the limitations of COVID-19 at the suggestion of the stakeholders. |
| Future directions towards achieving sustainability | Based on the positive outcome of our initial activities, we will propose the introduction of similar lectures for all postgraduate, Master's, and PhD programs in our department, and the expansion of educational activities to other levels involving academic researchers and faculty members. We will continue our collaboration with the Supervisory Committee of the Central Library and the Information Center of DUTH to improve the capacity of the repositories, and with the Association of Hellenic Academic Libraries to mobilize internal mechanisms and work with top management to develop open access and open innovation policies. |
| Self-evaluation | Based on the General Formative Evaluation Grid and on the Summative Evaluation Grid provided by Aarhus University and with support from K&I, a self-evaluation was carried out. Activities to date have proceeded according to the original plan. As we start our activities to improve educational activities at postgraduate level on OA topics, we aim to work closely with the Association of Hellenic Academic Libraries and extend educational activities to other levels to include researchers and academics in the DUTH research environment. |

Table 4: Task implementation of GAs-DUTH/GA.11

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| GA number | GA n. 11 Redefining research ethics, procedures and codes on Biosciences emerging needs |
| Objective of the task | The main objective of GA n. 11 is to train and educate young researchers in our department (undergraduate students, MSc students and PhD students) on ethics (privacy, consent issues, IPR, protection of researchers and research participants, responsibility, precautionary principle, etc.) and integrity in |

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| | <p>science (plagiarism, fraud, etc.). In this context, a central working team will be established at departmental level (MBG Research Ethics and Integrity Review Group - REIRG), whose task will be to communicate the emerging needs in the field of life sciences, as well as to design, organise and implement these training initiatives. Close collaboration will be established with the committee REC as well as with the directorates of Master's programmes at MBG.</p> |
| Preparation activities | <p>Preparatory activities during this reporting period included:</p> <ol style="list-style-type: none"> 1. The design of the website for the RESBIOS actions at MBG-DUTH (www.resbios.mbg.duth.gr). 2. The preparation of teaching materials for the course "Bioethics and Integrity in Science" aimed at all students. 3. The communication with potential speakers for the course "Bioethics and Integrity in Science" aimed at PhD students. |
| Implementation | <p>The work carried out under Task 4.4 and GA n.11 covers the period April to October 2021 (months 16-22).</p> <p>GA n.11.1 Establishment of the Research Ethics and Integrity Review Group.</p> <p>A new committee, the Integrity Review Group, was established at the departmental meeting n.16 (date: 26.05.2021). Prof. Papageorgiou of the MBG-DUTH extended team was appointed as a member of the group. This decision has been delayed for a relatively long time as there were several rounds of discussions in the General Assembly to convince the body of the need for this decision.</p> <p>GA n.11.2. introduction of a training course on "Bioethics and Integrity in Science" aimed at all undergraduate project students.</p> <p>The training course on "Bioethics and Integrity in Science" was organised and conducted by Prof. A. Pappa (PI of DUTH team in RESBIOS project) on 01.04.2021 (Fig.14). A total of 80 students of the undergraduate project participated in this event.</p>  <p>Figure 14: Training course on "Bioethics and Integrity in Science".</p> <p>These students were about to start their thesis and were informed about the requirements for conducting their research projects. In addition, the basic</p> |

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| | <p>principles of the Code of Ethics were analysed and rules for academic writing were discussed. The students were also familiarised with the anti-plagiarism software "Turnitin" provided by the University Library to its academic members.</p> <p>GA n.11.3. introduction of a training course on "Bioethics and Integrity in Science" aimed at postgraduate students.</p> <p>A lecture on "Bioethics and Integrity in Science" was delivered virtually via Zoom on 25/04/2021 by Dr. Ioannis Tsakonas, Director of the Library and Information Centre of the University of Patras, Greece.</p> |
| Communication activities | <p>All activities under this GA are now available on our dedicated website (www.resbios.mbg.duth.gr). The Zoom platform and Microsoft Teams were used to organize meetings, lectures, and workshops. Promotion and invitations to participate in the events were sent by email.</p> |
| Number of participants in the task | <ul style="list-style-type: none"> • 80 undergraduate project students participated at the training course on "Bioethics and Integrity in Science". • More than 30 M.Sc./PhD students attended the lecture on "Bioethics and Integrity in Science" given by Dr. Tsakonas on 25.04.2021. |
| Stakeholders mobilisation | <p>The stakeholders that have been involved in the activities were as follows:</p> <ul style="list-style-type: none"> • Department of Molecular Biology and Genetics (training activities) • Directorate of the M.Sc. programs "Translational Research in Biomedicine" and "Infectious Diseases - International Medicine: From Bench to Bedside" in MBG (supporting training and educational activities). • Democritus University of Thrace Research Ethics Committee (REC) (co-design in training and educational activities). <p>All stakeholders were internal (within the institution) and had a strong sense of the importance of strengthening educational activities on bioethics and integrity of science at the undergraduate and graduate levels. Interested faculty members, master's program directors, and research ethics committee members were contacted by phone or email, and meetings were arranged in physical presence or virtually to discuss the goals of the RESBIOS project.</p> |
| Obstacles and facilitation factors | <p>Activities under Task 4.4 (GA n.11) have so far proceeded according to the original plan.</p> <p>There was a relative delay for the decision of the Assembly of the Research Ethics and Integrity Review Group, due to several rounds of discussion in the General Assembly. Because of the existing university-level Research Ethics Committee, on which members of our department serve as representatives, it was finally decided to establish a department-level Integrity Review Group to focus on scientific integrity issues to avoid additional bureaucracy.</p> |
| Future directions towards achieving sustainability | <p>Sound knowledge and background in issues of ethics and integrity of science as well as bioethics are very important for the newly trained bioscientists, and we plan to propose these courses as mandatory for undergraduate and postgraduate studies within the department.</p> |

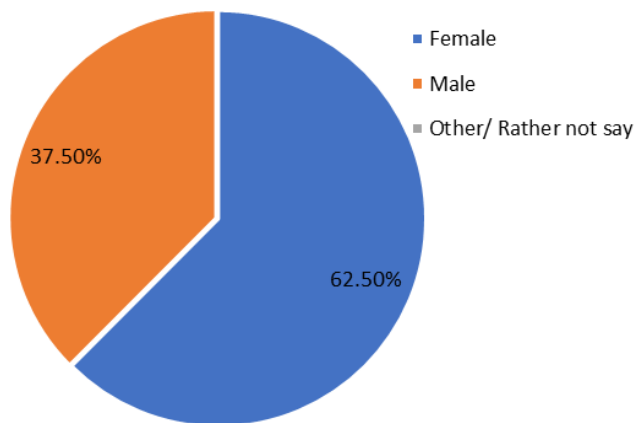
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| Self-evaluation | Based on the General Formative Evaluation Grid provided by Aarhus University and with the support of K&I, a self-evaluation was carried out. We are at the beginning of our activities for GA n.11, the development of teaching materials for the new proposed courses, and so far we have kept to the planned timetable for implementation. |
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APPENDIX 1

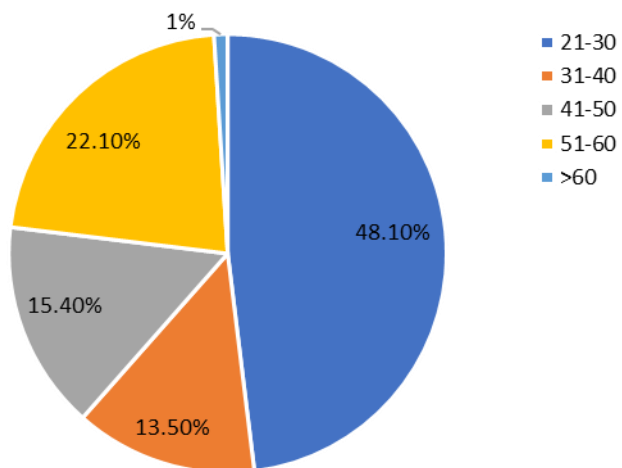
Results of a survey in task 4.4. GA no. 10

1. Demographics

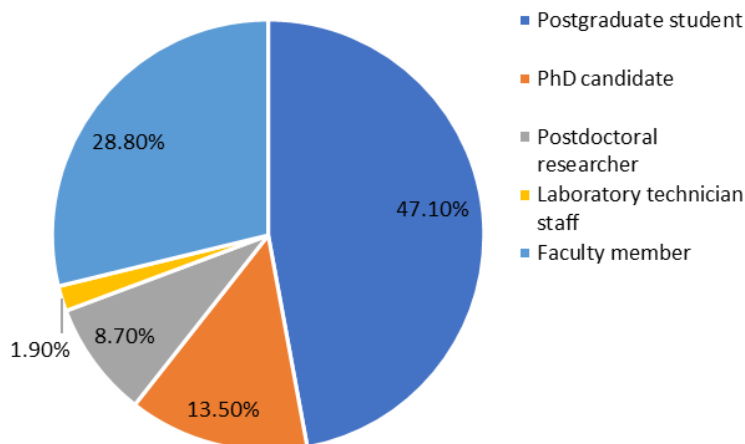
1.1 Gender



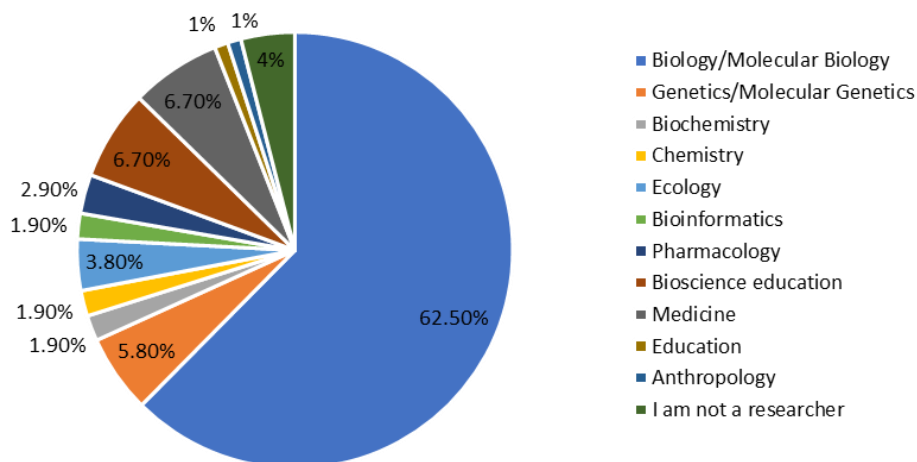
1.2 Age



1.3 Degree/Position

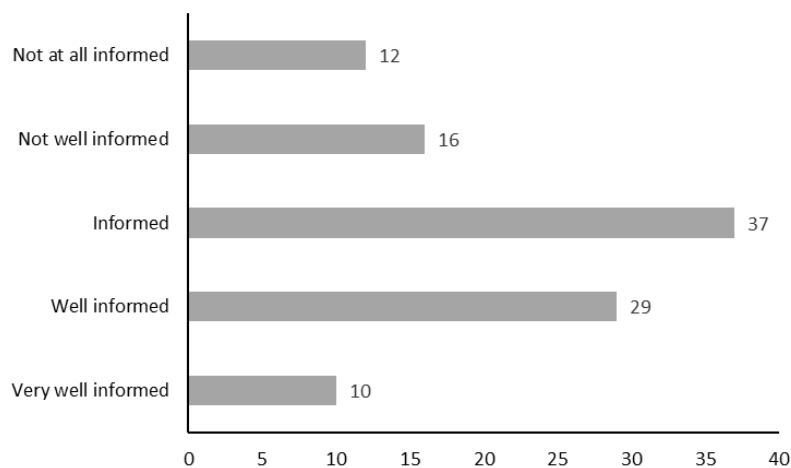


1.4 Field of research



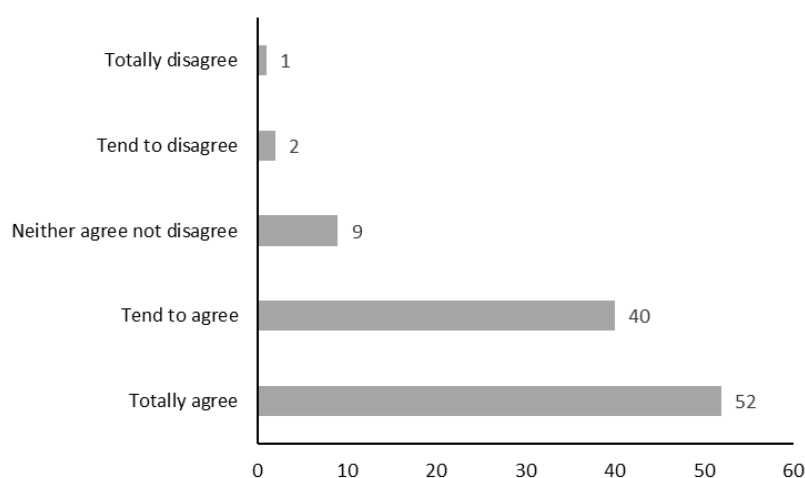
2. Responsible Research and Innovation

2.1 How informed are you about Responsible Research and Innovation?

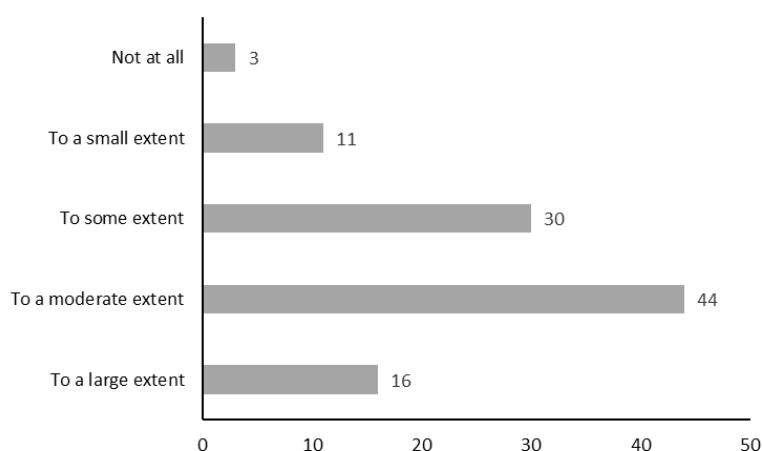


2.2 To what extent do you agree with the following statement: All social actors (citizens, researchers, businesses, policymakers) should be involved in research and innovation

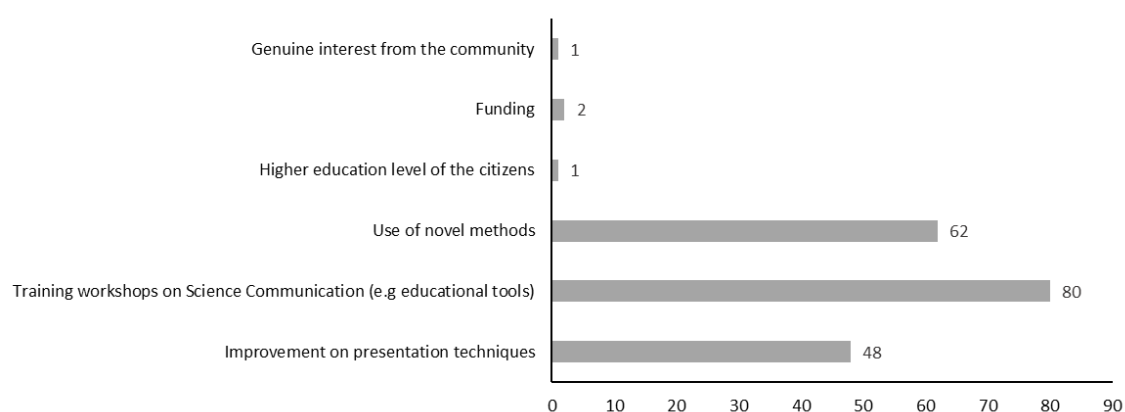
to ensure that research objectives are in line with societal values, needs and expectations.



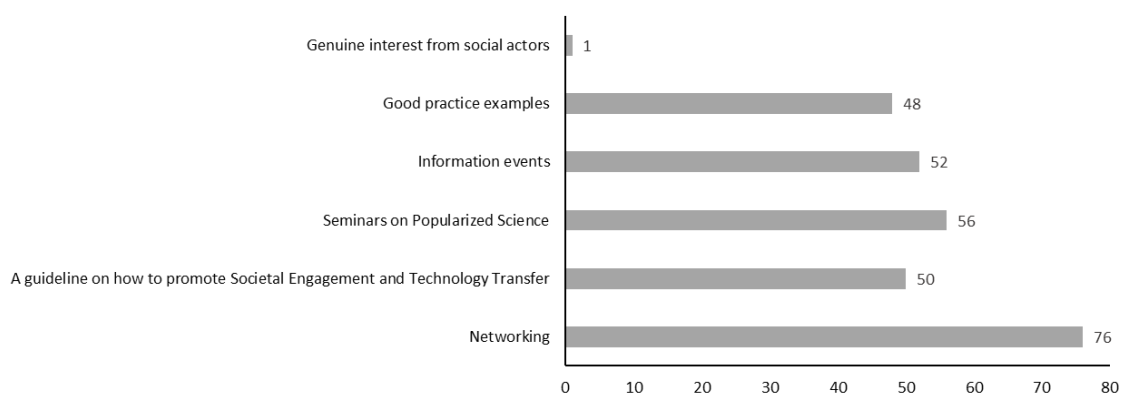
2.3 To what extent do you incorporate societal needs to your research?



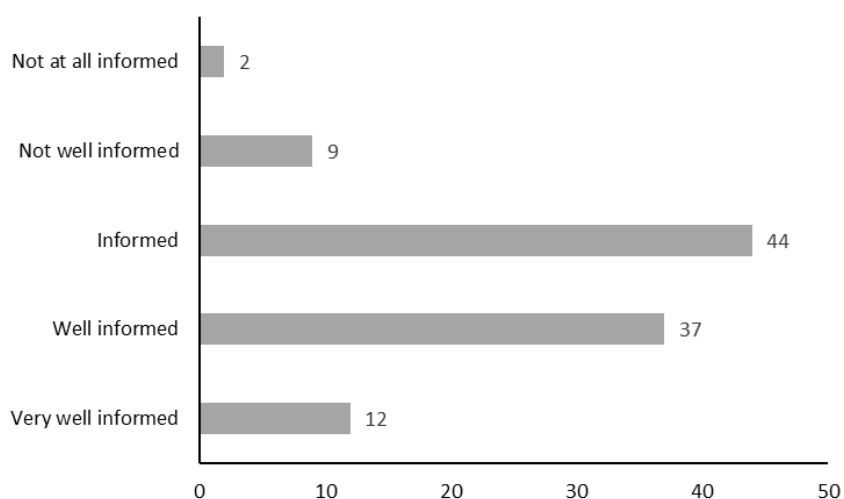
2.4 What support do you need to engage in Science Communication? (Multiple selection available)



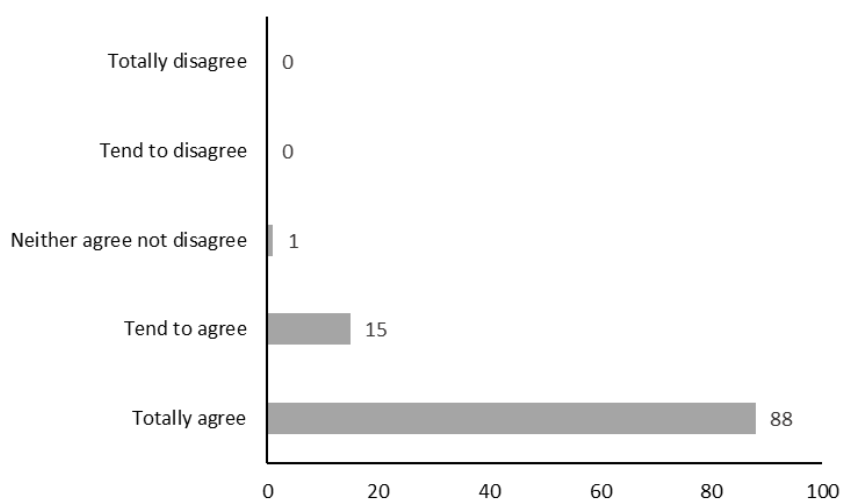
2.5 What kind of support will you seek for the involvement of social actors in your research? (Multiple selection available)



2.6 How well informed are you about scientific integrity, code of conduct and bioethics in Biosciences?

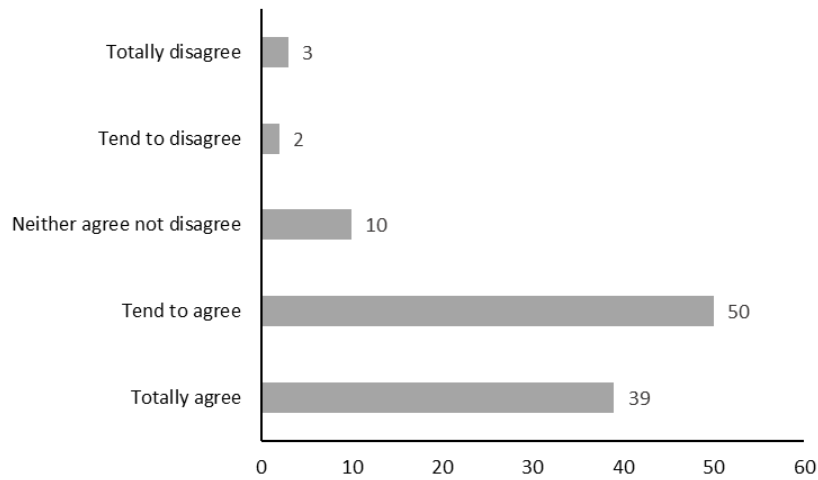


2.7 To what extent do you agree with the following statement: All Bioscientists must be trained in Bioethics and code of conduct issues (plagiarism, protection of personal data, handling of laboratory animals, etc) during their studies.

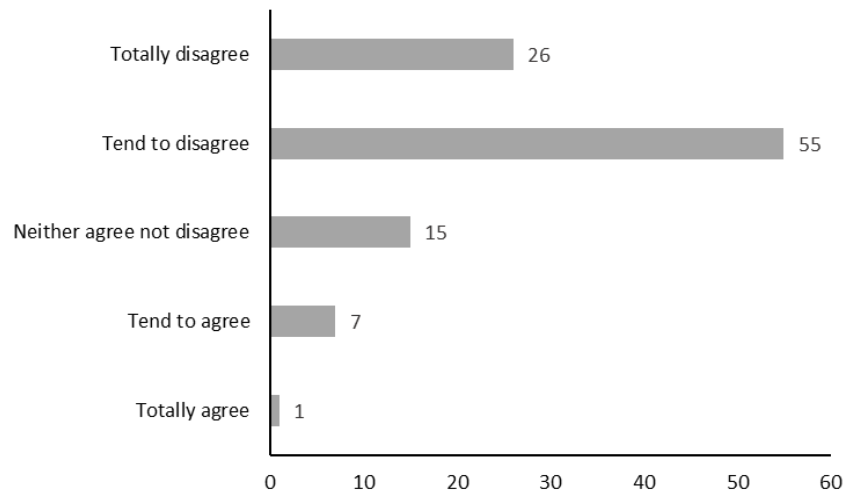


2.8 Academic researchers should develop new skills to attract young students to Biosciences. How important do you find the following statements about Bioscience Education?

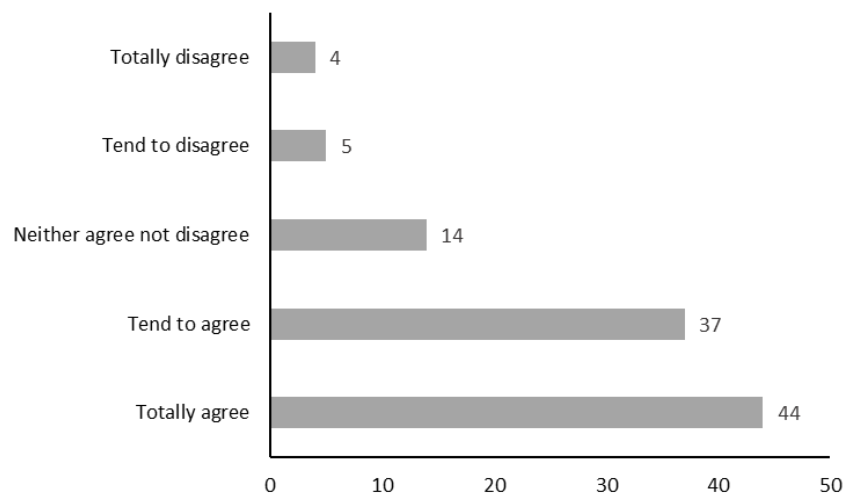
2.8.1 Bioscientists should give lectures to school students on their research topics.



2.8.2 Bioscientists should only focus on doing research.

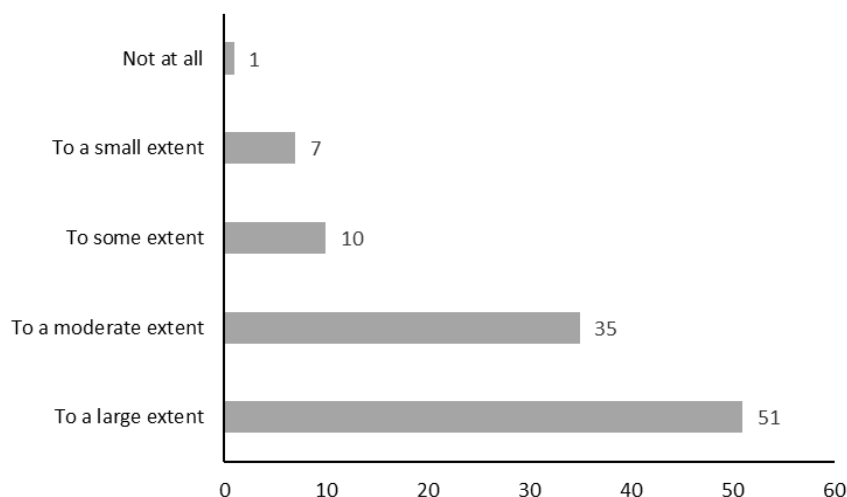


2.8.3 Bioscientists should inform the public about the progress, the benefits and/or risks of their research.

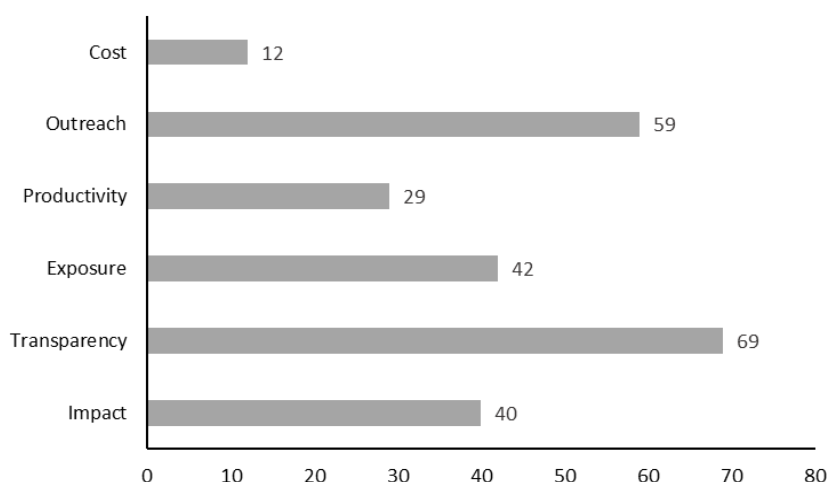


3. Open Access

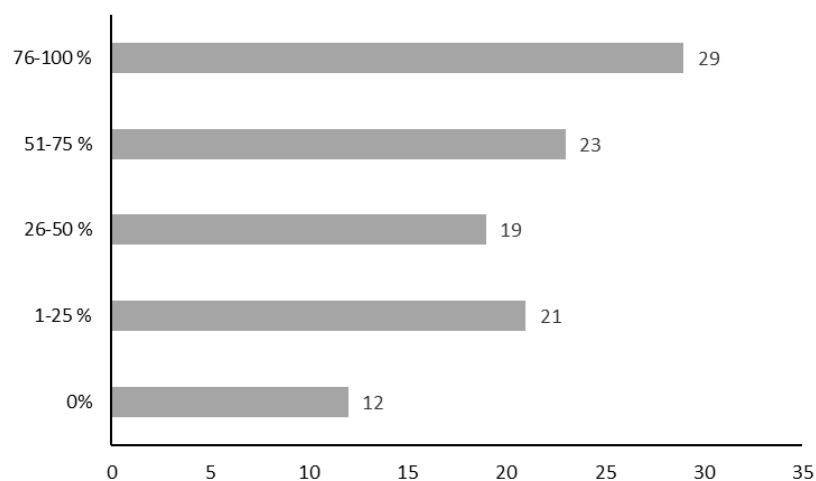
3.1 To what extent do you agree with the statement that the results of public funded research should be made available online free of charge (in compliance with General Data Protection Regulation – GDPR).



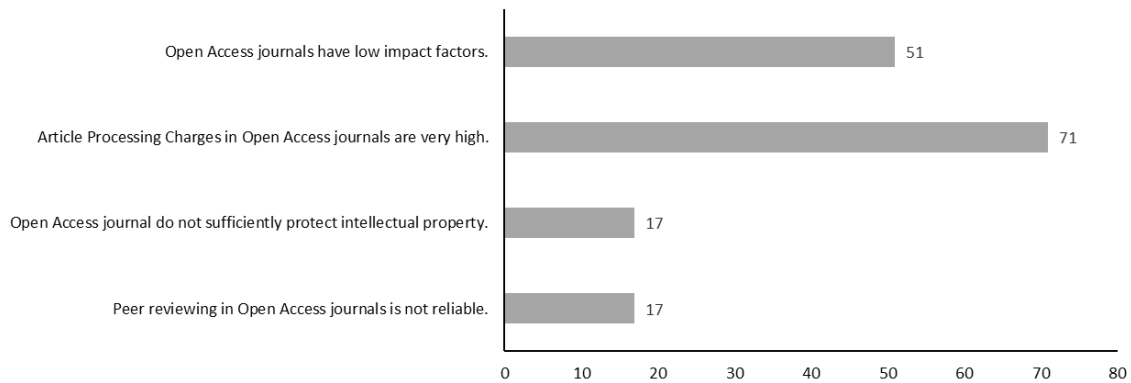
3.2 To your opinion, which of the following can better describe Open Access? (Multiple selection available)



3.3 What percentage of your research output (research articles, conference proceedings, lectures, books, theses, etc) is Open Access?

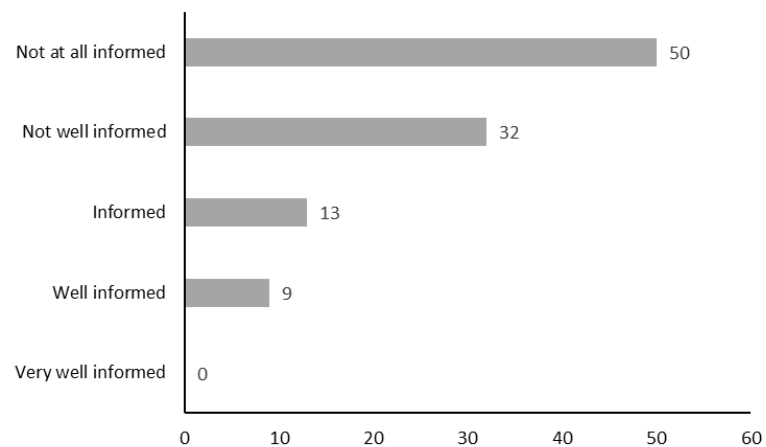


3.4 Which of the following could be a limiting factor for publishing your research results Open Access (multiple selection is available)?

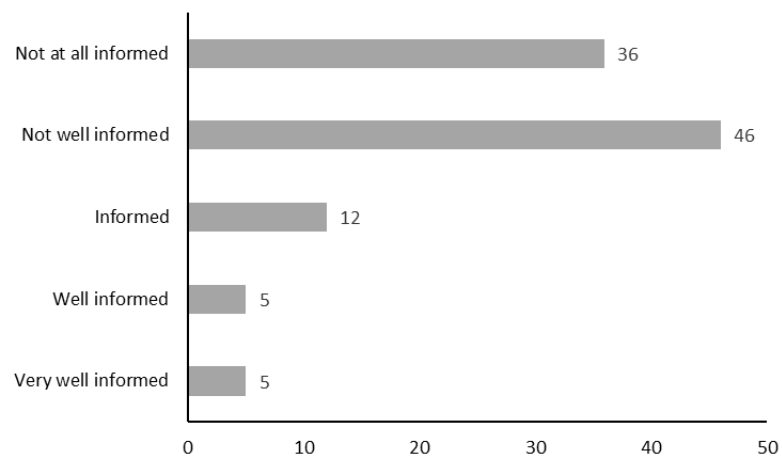


3.5 How well informed are you about

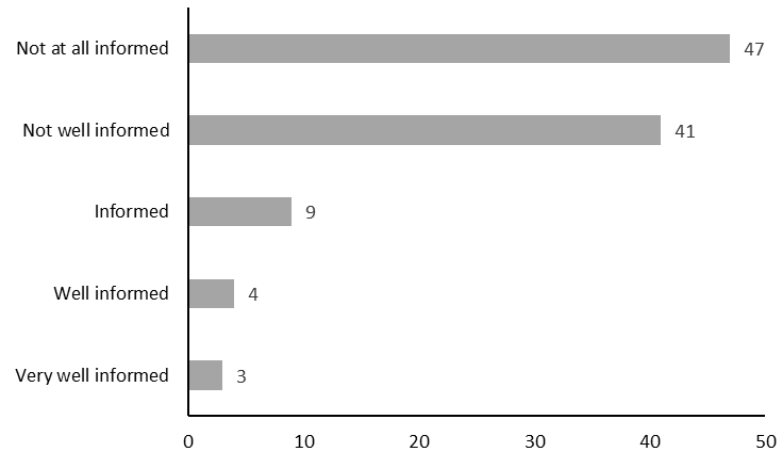
3.5.1 The two routes (Green and Golden route) of Open Access publishing?



3.5.2 The European policy on Open Access (e.g Horizon 2020)?

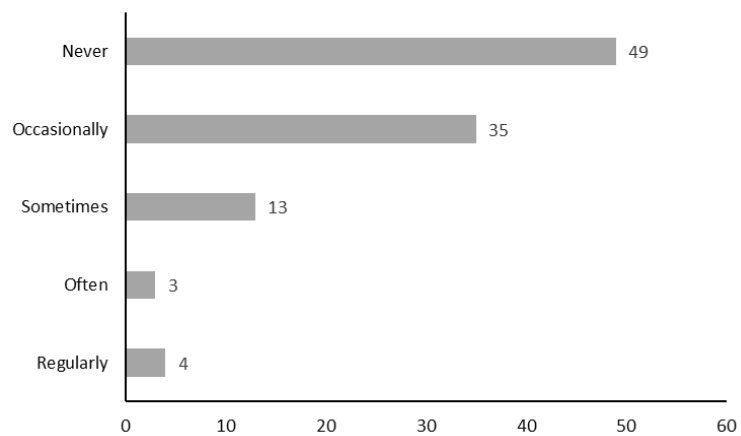


3.5.3 The National policy on Open Access?

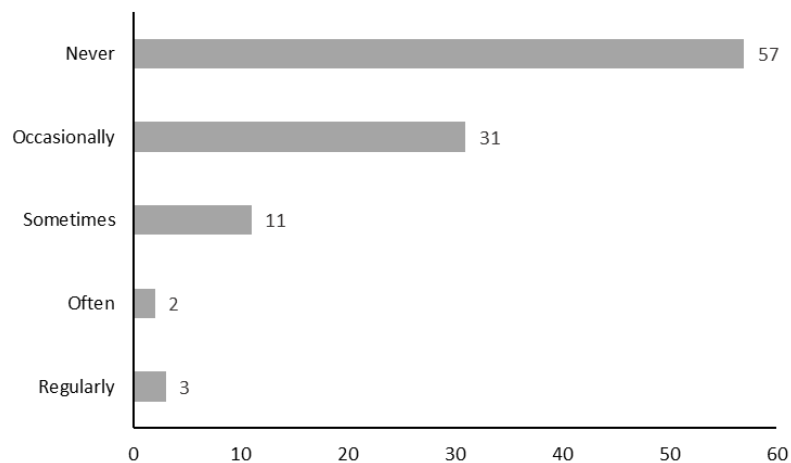


3.6 How often do you use:

3.6.1 The National Documentation Center (openarchives.gr) for your research?

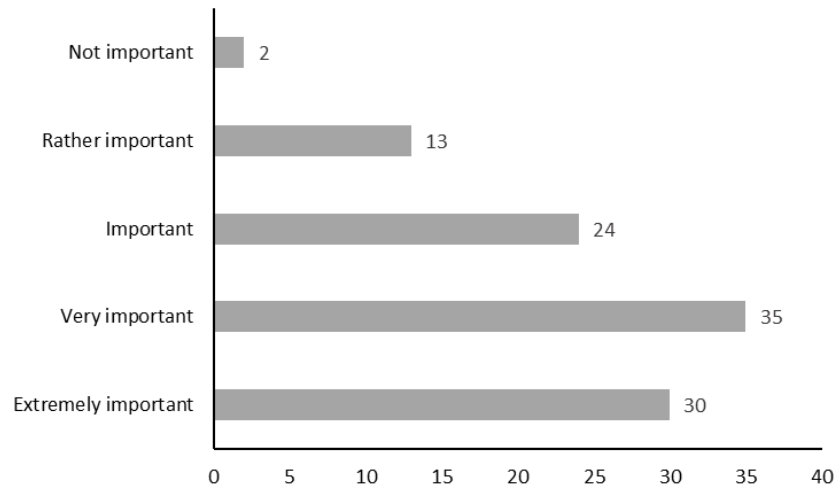


3.6.2 The University's repository (repo.lib.duth.gr) for your research?

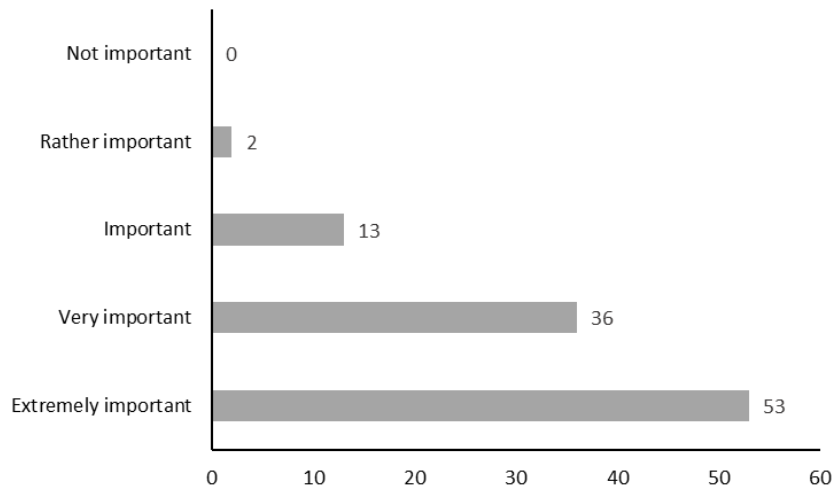


3.7 How important do you find the following actions about the promotion of Open Access to the research community?

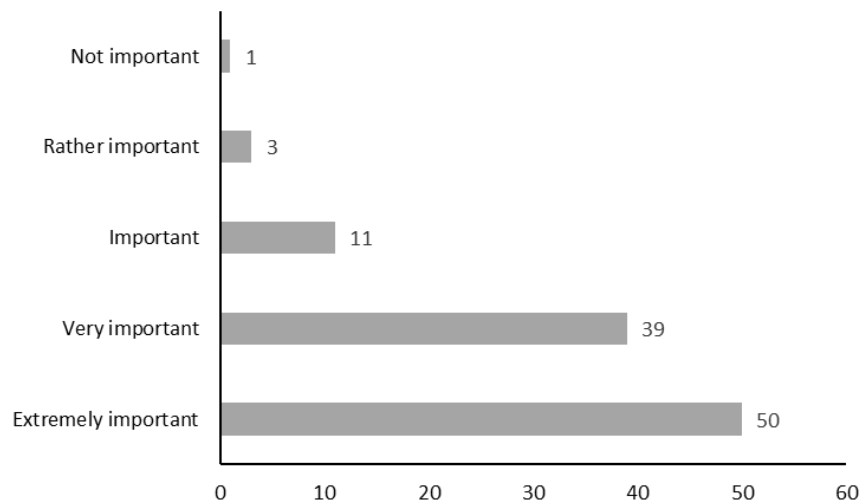
3.7.1 Training seminars and informational meetings



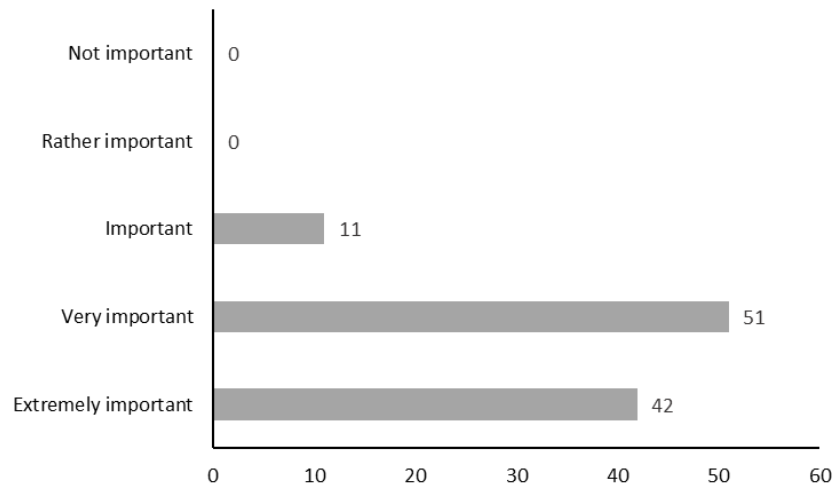
3.7.2 Financial support from the University



3.7.3 Open access research infrastructure



3.8 How important do you think policy planning at the University level is for Open Access?



APPENDIX 2

Results of a survey on OA by UNIZG-FAZ (Task 9.7)

The survey was conducted in national languages and for this reason the results are given in description of Task 9.7.

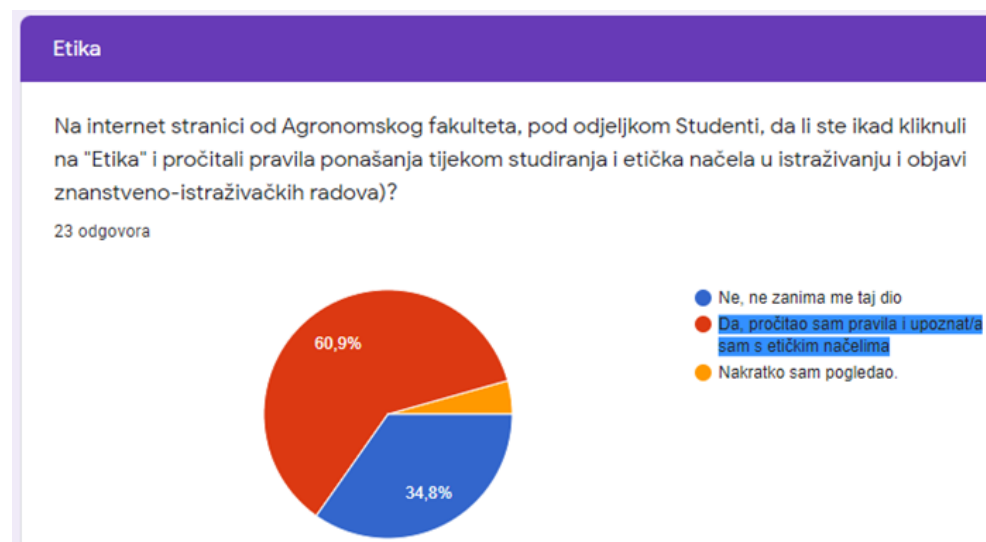


Figure A1: The survey results - answers to the first question about the Code of conduct at Faculty of Agriculture: “On the Faculty of Agriculture website, under the heading Students, have you ever clicked on “Ethics” and read the code of conduct during your studying and ethical principles in research and publication of scientific research?”

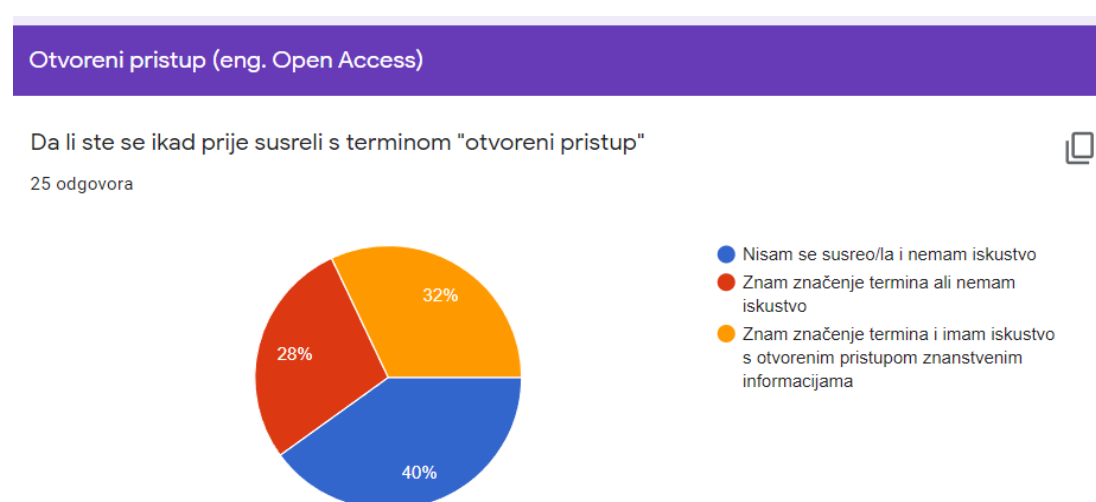


Figure A2: The students’ answers on the question “What is Open Access?”

Da li ste ikada koristili PlagScan softver za provjeru seminara, završnog, diplomskog ili drugog znanstvenog rada?

23 odgovora

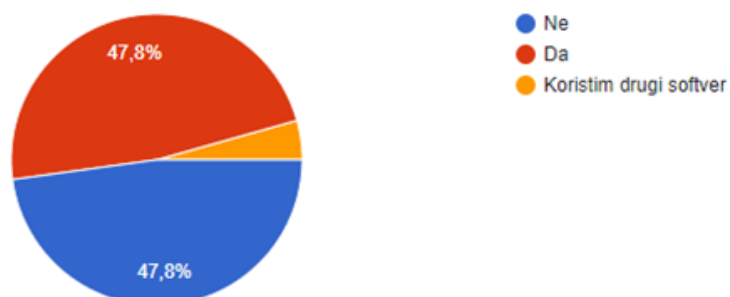


Figure A3: The survey results - answers on the second question “Have you ever used the PlagScan software when writing your seminar paper, final or master's thesis or other scientific publications?”

Koliko ste zainteresirani za informacije o sljedećim mjerama i odgovornim tijelima i osobama?
Označite okvir za svako pitanje.

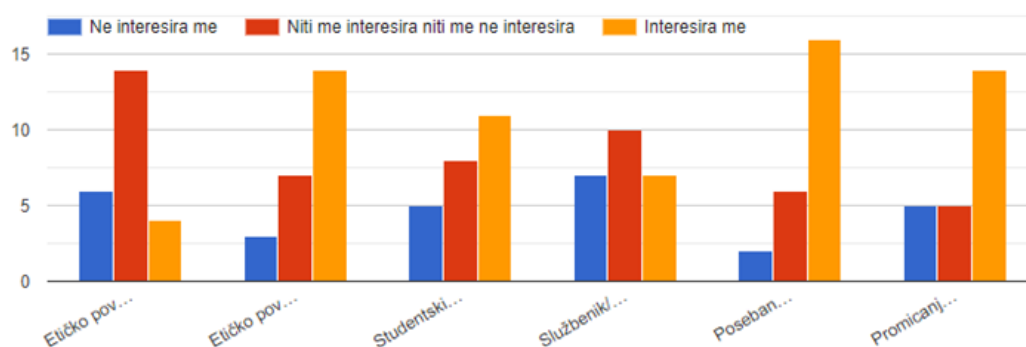


Figure A4: The survey results - answers on the third question “How interested are you in receiving information about the following policies and the relevant bodies and individuals? Tick the box for each question.”



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