

# Adam Mickiewicz University in Poznań

## Faculty of Chemistry

*INNChem - rozwój kompetencji doktorantów kluczowych w pracy o charakterze badawczo-rozwojowym*

## ABC of Research Integrity in the European Research Area

dr Iryna Degtyarova

### Researcher's workshop

<b>Field of science</b>	Interdisciplinary
<b>Teaching method</b>	Workshop
<b>Language</b>	English
<b>ECTS credits</b>	1
<b>Numbers of hours</b>	15 h
<b>Aims of the course</b>	<p>The course is aimed at giving UAM doctoral candidates an understanding of research integrity and misconduct, in both dimensions – theoretical (overview of the key documents and bylaws in EU and Poland) and practical one (awareness of responsible conduct of research), taking into account relevance to the chemistry as a scientific discipline.</p> <p>The course will address to the issues related to research integrity, ethics, responsible research and innovation, open science, research misconduct and questionable research practices in the context of career development of early-stage researchers.</p>
<b>Course contents</b>	<ol style="list-style-type: none"> <li>1. An introduction to the subject of research integrity. Responsible conduct of research. Research integrity and ethics. Research integrity and open science. (2 h)</li> <li>2. Research integrity as a key priority of the research&amp;innovation policy in the EU: overview of documents and activities of European institutions (European Commission, ScienceEurope, EUA, Eurodoc, ALLEA, etc.) and in Poland (Act 2.0, NCN, NCBR, PAN) (3 h)</li> <li>3. The European Code of Conduct for Research Integrity. Four principles of research integrity and their implementation in doctoral training and research career. (2 h)</li> <li>4. Research misconduct. Plagiarism, falsification and fabrication and the ethos of the scientist. Consequences for a research career (case study) (2 h)</li> </ol>

	<p>5. Grey zones of research integrity - problems and dilemmas (QRP, Bias) (2 h)</p> <p>6. Research integrity and publishing. The problem of authorship in the light of ethics and research integrity (ethical dilemmas) (2 h)</p> <p>7. Ensuring and promoting research integrity by the ministry, university, stakeholders, research funders, academic community, whistle-blowers, individual researchers. How researchers can respond to issues of research integrity? And misconduct. Essay and discussion (2 h)</p>
<b>Prerequisites and co-requisites</b>	<p>Watch the movie On being a scientist, free access on YouTube <a href="https://www.youtube.com/watch?v=tCqZSjoxF7c">https://www.youtube.com/watch?v=tCqZSjoxF7c</a></p>
<b>Learning outcomes</b>	
<b>On completion of the course PhD candidates will be able to:</b>	<b>Assessment mode</b>
<ul style="list-style-type: none"> <li>- have an awareness on the research integrity and responsible conduct of research in the context of the European Research Area,</li> <li>- get acquainted with and understand key European and Polish documents on research integrity, in particular ALLEA Code and Act 2.0</li> <li>- understand research integrity and define misconduct and bias,</li> <li>- realize researchers' responsibilities before society and peers;</li> <li>- take part in discussions on research integrity and seek for solutions in the situations of ethical dilemmas,</li> <li>- implement and cultivate good research practices and research ethics in their career development,</li> <li>- develop professional English languages competences, critical thinking and problem solving skills.</li> </ul>	<p>Essay and discussion</p>
<b>Literature</b>	<ol style="list-style-type: none"> <li>1. The European Code of Conduct for Research Integrity. Revised Edition, 2017. ALLEA - All European Academies, Berlin 2017. <a href="http://www.allea.org/publications/joint-publications/european-code-conduct-research-integrity/">http://www.allea.org/publications/joint-publications/european-code-conduct-research-integrity/</a></li> <li>2. National Academy of Sciences, National Academy of Engineering, and Institute of Medicine. 2009. On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition. Washington, DC: The National Academies Press. <a href="https://doi.org/10.17226/12192">https://doi.org/10.17226/12192</a>.</li> <li>3. van Buggenhout, M., Christiaens, J., &amp; Gutwirth, S. (2017). Promoting integrity as an integral dimension of excellence in research - final report on the incidence of misconduct. Retrieved from <a href="https://printeger.eu/wp-content/uploads/2018/06/3.9-organisational-best-practices.pdf">https://printeger.eu/wp-content/uploads/2018/06/3.9-organisational-best-practices.pdf</a></li> <li>4. Forsberg, EM., Anthun, F.O., Bailey, S. et al. (2018) Working with Research Integrity – Guidance for Research Performing Organisations: The Bonn PRINTEGER Statement. Science and Engineering Ethics. <a href="https://doi.org/10.1007/s11948-018-0034-4">https://doi.org/10.1007/s11948-018-0034-4</a></li> <li>5. Research Integrity Practices in Science Europe Member Organisations, <a href="https://www.scienceeurope.org/wp-content/uploads/2016/07/Science-">https://www.scienceeurope.org/wp-content/uploads/2016/07/Science-</a></li> </ol>



	<p><a href="#">_Europe_Integrity_Survey_Report_July_2016_FINAL.pdf</a></p> <p>6. EU Council Conclusions on Research Integrity , Brussels, 1 December 2015, <a href="https://era.gv.at/object/document/2238/attach/Council_Conclusions_on_research_integrity.PDF">https://era.gv.at/object/document/2238/attach/Council_Conclusions_on_research_integrity.PDF</a></p> <p>7. Organisation for Economic Co-Operation and Development Global Science Forum. Co-ordinating Committee for Facilitating International Research Misconduct Investigations. Final Report. (2007) Available from: <a href="https://www.oecd.org/sti/sci-tech/42713295.pdf">https://www.oecd.org/sti/sci-tech/42713295.pdf</a></p> <p>8. Li, R; Barnes, M; Aldinger, C., E; Bierer, B., E. (2015) Global Clinical Trials: Ethics, Harmonization and Commitments to Transparency. Harvard Public Health Review, volume 5 - global health, p 1-7</p> <p>9. Mayer, T., and Steneck, N. (2007). Final Report to ESF and ORI. First World Conference on Research Integrity: Fostering Responsible Research. Available at: <a href="http://eurosfaire.prd.fr/7pc/doc/1205751016_wc_research_integrity_final_report.pdf">http://eurosfaire.prd.fr/7pc/doc/1205751016_wc_research_integrity_final_report.pdf</a></p> <p>Other resources</p> <p>1. Film Being a Scientist, <a href="https://www.youtube.com/watch?v=tCgZSjoxF7c">https://www.youtube.com/watch?v=tCgZSjoxF7c</a></p>
<p><b>Additional information</b></p>	<p>Schedule (suggested dates):</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 24 May 2019, g. 10:00-16:00 (6 h)</li> <li><input type="checkbox"/> 25 May 2019, g. 10:00-16:00 (6 h)</li> <li><input type="checkbox"/> 5 June 2019, g. 13:30-16:00 (3 h)</li> </ul> <p>e-mail: <a href="mailto:irina.degtiarova@gmail.com">irina.degtiarova@gmail.com</a></p>