

Masaryk University	
Faculty	Faculty of Science
Procedure field	Environmental Health Sciences
Applicant	doc. Mgr. Klára Hilscherová, Ph.D.
Applicant's home unit, institution	Faculty of Science, Masaryk University
Board members	
Chair	prof. RNDr. Jana Klánová, Ph.D. <i>Faculty of Science, Masaryk University</i>
Members	prof. Ing. Tomáš Randák, Ph.D. <i>University of South Bohemia in České Budějovice</i> Henner Hollert <i>Faculty Biological Sciences, Goethe University Frankfurt , Germany</i> Werner Brack <i>Helmholtz Centre for Environmental Research GmbH ? UFZ Leipzig</i> Pim Leonards <i>Vrije Universiteit Amsterdam</i>

Evaluation of the applicant's scholarly/artistic qualifications

Klara Hilscherova is an internationally recognized expert in environmental toxicology with a strong focus on bioanalytical methods and endocrine disruption. Her scientific achievements are evidenced by an extensive publication record in high-impact journals, a high citation count, and a notable H-index of 49. Her scholarly/artistic qualifications are outstanding, and some of her papers really made a difference in the scientific world providing substantial innovation on key questions of high scientific but also societal relevance. This includes the question of trigger values derived for effect-based monitoring tools but also the development of novel assays that have the potential to revolutionize effect-based assessment of complex chemical pollution.

Klara has demonstrated exceptional ability to lead and collaborate on major international research projects, including EU-funded initiatives, and has successfully secured competitive research funding. Her work effectively bridges environmental chemistry and ecotoxicology, contributing significantly to fundamental science and applied research. In addition to her research excellence, she has made substantial contributions to academic teaching and mentoring, further underlining her comprehensive expertise and leadership in the field.

Klara Hirscherova is clearly one of the most accomplished researchers in Europe and even worldwide and she has certainly played a significant role in shaping MU's internationalization and excellent position in the field of environmental research.

Conclusion: The applicant's scholarly/artistic capabilities **meet** the requirements expected of applicants participating in a professor appointment procedure in the field of Environmental Health Sciences.

Evaluation of the applicant's pedagogical experience

Klara Hilscherova has demonstrated outstanding pedagogical commitment and effectiveness across all academic levels. She coordinates and lectures in multiple courses and authored textbooks for Czech and English students. She wrote, for instance, a full textbook in the field of Aquatic Toxicology and made available her excessive knowledge in the field to Czech students in their own language. Her excellent ability to communicate basic concepts and research-oriented content is outstanding.

She successfully supervised over 40 bachelor's, master's and doctoral students. Her teaching skills are evident from student feedback, the quality of her lectures, including those given at international summer schools, and the success of the many theses she has supervised. Her students have produced high-quality publications and have gone on to achieve notable careers in environmental science. Klara is highly skilled at conveying fundamental and advanced research topics in an accessible and engaging manner. Her ability to adapt to students with varying experience levels and foster their development reflects her excellence as an educator and mentor.

As pointed out in the evaluation of her lecture, Klara Hilscherova has an excellent gift for explaining both basic and research-oriented aspects in a way that is easy to understand, thus giving students very good access to comprehensive knowledge.

Conclusion: The applicant's pedagogical capabilities **meet** the requirements expected of applicants participating in a professor appointment procedure in the field of Environmental Health Sciences.

Evaluation of the applicant as a respected and recognized scholarly or artistic figure in a given field

Klara Hilscherova is a highly respected and recognized international scientist in toxicology and ecotoxicology, particularly known for her work on endocrine-disrupting compounds and molecular-level ecotoxicology. She has built and actively contributes to a strong global network of leading researchers, fostering innovation and ensuring high scientific standards. As the leader of her own Bioanalytical Toxicology team, she

has developed novel in vitro assays and advanced the understanding of toxicity mechanisms. Her international recognition is further reflected by frequent invitations to speak at scientific conferences.

Conclusion: The applicant **is** a respected and recognized scholarly figure in his/her field. The applicant **has** made a significant contribution to the development of his/her field. The applicant **constitutes** a leading figure in his/her field of scholarship or research.

Secret vote results

Voting took place: electronically

Number of board members		5
Number of votes cast		5
of which	in favour	5
	against	0

Board decision

Based on the outcome of the secret vote and following an evaluation of the applicant's scholarly or artistic qualifications, pedagogical experience and role as a respected and recognized scholarly or artistic figure, the board hereby submits a proposal to the Scientific Board of the Faculty of Science of Masaryk University to **appoint the applicant professor** of Environmental Health Sciences.

In Brno on 30.04.2025

prof. RNDr. Jana Klánová, Ph.D.