

Overlooked ethical requirements in the sciences

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Nowadays discussions on ethics in the natural sciences mainly focus on the violation of academic principles, i. e., how a scientist conducts research [1]. Of course, what researchers do and how their findings affect societies and the environment are debated too [2]. However, asking for proper behavior is only one practical facet of ethics. Dating back to Aristotle, it is human prosperity that ethics primary asks for. Considering this basic concept, I here discuss consequences for scientists. I describe that ethics asks them to cultivate amazement, diligence, reverence with respect to the object of research, as well as inner distance to one's own work [3]. In my contribution I hold a mirror up to today's scientists, facing them with these usually overlooked ethical requirements. Furthermore, I analyze the scientific system and discuss inherent unethical traits.

[1] W. F. VAN GUNSTEREN, The seven sins in academic behavior in the natural sciences, *Angew. Chem. Int. Ed.* **52**, 118–122 (2013).

[2] J. MEHLICH, F. MOSER, B. VAN TIGGELEN, L. CAMPANELLA, H. HOPF, The ethical and social dimensions of chemistry: Reflections, considerations, and clarifications, *Chem. Eur. J.* **23**, 1210–1218 (2017).

[3] M. SEIDL-NIGSCH, Sei frei und glücklich! to appear in *Nachr. Chem.*