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VALUES IN SCIENCE

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Abstract: This Element introduces the philosophical literature on values in science by examining four questions: (1) How do values influence science? (2) Should we actively incorporate values in science? (3) How can we manage values in science responsibly? (4) What are some next steps for those who want to help promote responsible roles for values in science? It explores arguments for and against the ‘value-free ideal’ for science (i.e., the notion that values should be excluded from scientific reasoning) and concludes that it should be rejected. Nonetheless, this does not mean that value influences are always acceptable. The Element explores a range of strategies to distinguish between appropriate and inappropriate value influences. It concludes by proposing an approach to managing values in science that relies on justifying, prioritising, and implementing norms for scientific research practices and institutions.

Keywords: science and values, science communication, responsible research, research ethics, science and society

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## Contents

1. Introduction ........................................ 1
2. How Do Values Influence Science? .......... 3
3. Should We Actively Incorporate Values in Science? .... 15
4. How Can We Manage Values in Science Responsibly? .... 37
5. What Are Some Next Steps? ................... 48
6. Conclusion ........................................ 58

References ............................................ 61