|  | Human (N=76) | Physical (N=113) | Nature/society (N=42) | Methods (N=49) | Other (N=3) | Overall (N=283) |
| --- | --- | --- | --- | --- | --- | --- |
| **Pressure to publish original research** |  |  |  |  |  |  |
| Always | 15 (19.7%) | 33 (29.2%) | 14 (33.3%) | 11 (22.4%) | 2 (66.7%) | 75 (26.5%) |
| Frequently | 26 (34.2%) | 49 (43.4%) | 13 (31.0%) | 24 (49.0%) | 1 (33.3%) | 113 (39.9%) |
| Occasionally | 12 (15.8%) | 10 (8.8%) | 3 (7.1%) | 9 (18.4%) | 0 (0%) | 34 (12.0%) |
| Rarely | 4 (5.3%) | 9 (8.0%) | 2 (4.8%) | 1 (2.0%) | 0 (0%) | 16 (5.7%) |
| Never | 1 (1.3%) | 4 (3.5%) | 1 (2.4%) | 1 (2.0%) | 0 (0%) | 7 (2.5%) |
| Missing | 18 (23.7%) | 8 (7.1%) | 9 (21.4%) | 3 (6.1%) | 0 (0%) | 38 (13.4%) |
| **Low value of replication studies** |  |  |  |  |  |  |
| Always | 12 (15.8%) | 18 (15.9%) | 9 (21.4%) | 6 (12.2%) | 1 (33.3%) | 46 (16.3%) |
| Frequently | 20 (26.3%) | 52 (46.0%) | 16 (38.1%) | 21 (42.9%) | 1 (33.3%) | 110 (38.9%) |
| Occasionally | 13 (17.1%) | 24 (21.2%) | 7 (16.7%) | 10 (20.4%) | 0 (0%) | 54 (19.1%) |
| Rarely | 9 (11.8%) | 9 (8.0%) | 2 (4.8%) | 4 (8.2%) | 0 (0%) | 24 (8.5%) |
| Never | 2 (2.6%) | 1 (0.9%) | 1 (2.4%) | 3 (6.1%) | 1 (33.3%) | 8 (2.8%) |
| Missing | 20 (26.3%) | 9 (8.0%) | 7 (16.7%) | 5 (10.2%) | 0 (0%) | 41 (14.5%) |
| **Low chances of replicating a result** |  |  |  |  |  |  |
| Always | 6 (7.9%) | 3 (2.7%) | 2 (4.8%) | 3 (6.1%) | 2 (66.7%) | 16 (5.7%) |
| Frequently | 16 (21.1%) | 30 (26.5%) | 11 (26.2%) | 13 (26.5%) | 0 (0%) | 70 (24.7%) |
| Occasionally | 18 (23.7%) | 35 (31.0%) | 13 (31.0%) | 19 (38.8%) | 0 (0%) | 85 (30.0%) |
| Rarely | 14 (18.4%) | 24 (21.2%) | 6 (14.3%) | 6 (12.2%) | 1 (33.3%) | 51 (18.0%) |
| Never | 4 (5.3%) | 6 (5.3%) | 2 (4.8%) | 2 (4.1%) | 0 (0%) | 14 (4.9%) |
| Missing | 18 (23.7%) | 15 (13.3%) | 8 (19.0%) | 6 (12.2%) | 0 (0%) | 47 (16.6%) |
| **Lack of experience conducting replications** |  |  |  |  |  |  |
| Always | 3 (3.9%) | 7 (6.2%) | 4 (9.5%) | 4 (8.2%) | 1 (33.3%) | 19 (6.7%) |
| Frequently | 22 (28.9%) | 24 (21.2%) | 17 (40.5%) | 20 (40.8%) | 1 (33.3%) | 84 (29.7%) |
| Occasionally | 16 (21.1%) | 30 (26.5%) | 6 (14.3%) | 11 (22.4%) | 1 (33.3%) | 64 (22.6%) |
| Rarely | 9 (11.8%) | 28 (24.8%) | 6 (14.3%) | 9 (18.4%) | 0 (0%) | 52 (18.4%) |
| Never | 2 (2.6%) | 4 (3.5%) | 3 (7.1%) | 1 (2.0%) | 0 (0%) | 10 (3.5%) |
| Missing | 24 (31.6%) | 20 (17.7%) | 6 (14.3%) | 4 (8.2%) | 0 (0%) | 54 (19.1%) |
| **Difficult publishing peer-reviewed replications** |  |  |  |  |  |  |
| Always | 10 (13.2%) | 16 (14.2%) | 10 (23.8%) | 11 (22.4%) | 2 (66.7%) | 49 (17.3%) |
| Frequently | 28 (36.8%) | 41 (36.3%) | 14 (33.3%) | 13 (26.5%) | 0 (0%) | 96 (33.9%) |
| Occasionally | 10 (13.2%) | 23 (20.4%) | 7 (16.7%) | 12 (24.5%) | 0 (0%) | 52 (18.4%) |
| Rarely | 3 (3.9%) | 14 (12.4%) | 2 (4.8%) | 4 (8.2%) | 1 (33.3%) | 24 (8.5%) |
| Never | 4 (5.3%) | 4 (3.5%) | 2 (4.8%) | 0 (0%) | 0 (0%) | 10 (3.5%) |
| Missing | 21 (27.6%) | 15 (13.3%) | 7 (16.7%) | 9 (18.4%) | 0 (0%) | 52 (18.4%) |
| **Difficulty accessing/creating relevant data** |  |  |  |  |  |  |
| Always | 9 (11.8%) | 9 (8.0%) | 9 (21.4%) | 6 (12.2%) | 1 (33.3%) | 34 (12.0%) |
| Frequently | 32 (42.1%) | 45 (39.8%) | 17 (40.5%) | 22 (44.9%) | 2 (66.7%) | 118 (41.7%) |
| Occasionally | 12 (15.8%) | 34 (30.1%) | 10 (23.8%) | 12 (24.5%) | 0 (0%) | 68 (24.0%) |
| Rarely | 5 (6.6%) | 13 (11.5%) | 1 (2.4%) | 4 (8.2%) | 0 (0%) | 23 (8.1%) |
| Never | 2 (2.6%) | 3 (2.7%) | 1 (2.4%) | 1 (2.0%) | 0 (0%) | 7 (2.5%) |
| Missing | 16 (21.1%) | 9 (8.0%) | 4 (9.5%) | 4 (8.2%) | 0 (0%) | 33 (11.7%) |
| **Insufficient information about original methods** |  |  |  |  |  |  |
| Always | 7 (9.2%) | 11 (9.7%) | 4 (9.5%) | 9 (18.4%) | 1 (33.3%) | 32 (11.3%) |
| Frequently | 24 (31.6%) | 35 (31.0%) | 17 (40.5%) | 20 (40.8%) | 1 (33.3%) | 97 (34.3%) |
| Occasionally | 17 (22.4%) | 43 (38.1%) | 13 (31.0%) | 8 (16.3%) | 1 (33.3%) | 82 (29.0%) |
| Rarely | 11 (14.5%) | 12 (10.6%) | 4 (9.5%) | 8 (16.3%) | 0 (0%) | 35 (12.4%) |
| Never | 0 (0%) | 3 (2.7%) | 0 (0%) | 1 (2.0%) | 0 (0%) | 4 (1.4%) |
| Missing | 17 (22.4%) | 9 (8.0%) | 4 (9.5%) | 3 (6.1%) | 0 (0%) | 33 (11.7%) |
| **Difficulty recreating similar procedures** |  |  |  |  |  |  |
| Always | 8 (10.5%) | 7 (6.2%) | 3 (7.1%) | 8 (16.3%) | 0 (0%) | 26 (9.2%) |
| Frequently | 22 (28.9%) | 36 (31.9%) | 14 (33.3%) | 15 (30.6%) | 2 (66.7%) | 89 (31.4%) |
| Occasionally | 17 (22.4%) | 42 (37.2%) | 18 (42.9%) | 17 (34.7%) | 1 (33.3%) | 95 (33.6%) |
| Rarely | 9 (11.8%) | 15 (13.3%) | 4 (9.5%) | 4 (8.2%) | 0 (0%) | 32 (11.3%) |
| Never | 0 (0%) | 3 (2.7%) | 0 (0%) | 1 (2.0%) | 0 (0%) | 4 (1.4%) |
| Missing | 20 (26.3%) | 10 (8.8%) | 3 (7.1%) | 4 (8.2%) | 0 (0%) | 37 (13.1%) |
| **Lack of funding for replication studies** |  |  |  |  |  |  |
| Always | 12 (15.8%) | 29 (25.7%) | 15 (35.7%) | 11 (22.4%) | 2 (66.7%) | 69 (24.4%) |
| Frequently | 24 (31.6%) | 44 (38.9%) | 14 (33.3%) | 17 (34.7%) | 0 (0%) | 99 (35.0%) |
| Occasionally | 11 (14.5%) | 14 (12.4%) | 5 (11.9%) | 10 (20.4%) | 0 (0%) | 40 (14.1%) |
| Rarely | 6 (7.9%) | 5 (4.4%) | 2 (4.8%) | 5 (10.2%) | 1 (33.3%) | 19 (6.7%) |
| Never | 1 (1.3%) | 4 (3.5%) | 0 (0%) | 0 (0%) | 0 (0%) | 5 (1.8%) |
| Missing | 22 (28.9%) | 17 (15.0%) | 6 (14.3%) | 6 (12.2%) | 0 (0%) | 51 (18.0%) |
| **Fabrication of data or results by original authors** |  |  |  |  |  |  |
| Always | 7 (9.2%) | 10 (8.8%) | 5 (11.9%) | 2 (4.1%) | 0 (0%) | 24 (8.5%) |
| Frequently | 7 (9.2%) | 10 (8.8%) | 5 (11.9%) | 7 (14.3%) | 0 (0%) | 29 (10.2%) |
| Occasionally | 10 (13.2%) | 15 (13.3%) | 1 (2.4%) | 9 (18.4%) | 0 (0%) | 35 (12.4%) |
| Rarely | 11 (14.5%) | 42 (37.2%) | 13 (31.0%) | 11 (22.4%) | 1 (33.3%) | 78 (27.6%) |
| Never | 6 (7.9%) | 10 (8.8%) | 4 (9.5%) | 1 (2.0%) | 2 (66.7%) | 23 (8.1%) |
| Missing | 35 (46.1%) | 26 (23.0%) | 14 (33.3%) | 19 (38.8%) | 0 (0%) | 94 (33.2%) |
| **Ethical concerns** |  |  |  |  |  |  |
| Always | 3 (3.9%) | 10 (8.8%) | 3 (7.1%) | 2 (4.1%) | 0 (0%) | 18 (6.4%) |
| Frequently | 8 (10.5%) | 3 (2.7%) | 6 (14.3%) | 4 (8.2%) | 0 (0%) | 21 (7.4%) |
| Occasionally | 14 (18.4%) | 16 (14.2%) | 8 (19.0%) | 8 (16.3%) | 1 (33.3%) | 47 (16.6%) |
| Rarely | 18 (23.7%) | 43 (38.1%) | 12 (28.6%) | 16 (32.7%) | 1 (33.3%) | 90 (31.8%) |
| Never | 11 (14.5%) | 15 (13.3%) | 6 (14.3%) | 6 (12.2%) | 1 (33.3%) | 39 (13.8%) |
| Missing | 22 (28.9%) | 26 (23.0%) | 7 (16.7%) | 13 (26.5%) | 0 (0%) | 68 (24.0%) |
| **Known spatial variation in phenomena being studied** |  |  |  |  |  |  |
| Always | 4 (5.3%) | 10 (8.8%) | 4 (9.5%) | 4 (8.2%) | 1 (33.3%) | 23 (8.1%) |
| Frequently | 17 (22.4%) | 30 (26.5%) | 10 (23.8%) | 12 (24.5%) | 0 (0%) | 69 (24.4%) |
| Occasionally | 17 (22.4%) | 34 (30.1%) | 10 (23.8%) | 12 (24.5%) | 0 (0%) | 73 (25.8%) |
| Rarely | 5 (6.6%) | 18 (15.9%) | 5 (11.9%) | 7 (14.3%) | 1 (33.3%) | 36 (12.7%) |
| Never | 6 (7.9%) | 2 (1.8%) | 2 (4.8%) | 3 (6.1%) | 0 (0%) | 13 (4.6%) |
| Missing | 27 (35.5%) | 19 (16.8%) | 11 (26.2%) | 11 (22.4%) | 1 (33.3%) | 69 (24.4%) |