
### Supplementary Table 1 – Citation counts: negative binomial regression output

<table>
<thead>
<tr>
<th>Fixed Effects</th>
<th>B (95% CI)</th>
<th>IRR (95% CI)</th>
<th>Std. Error</th>
<th>Z</th>
<th>p</th>
<th>Estimate (95% CI)</th>
<th>IRR (95% CI)</th>
<th>Std. Error</th>
<th>Z</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>(1.541, 1.583)</td>
<td>(1.505, 1.621)</td>
<td>0.019</td>
<td>-80.50</td>
<td>2 x 10⁻¹⁰⁺</td>
<td>-2.395</td>
<td>(2.458, 2.335)</td>
<td>0.009</td>
<td>0.086</td>
<td>0.097</td>
</tr>
<tr>
<td>Deposited to bioRxiv</td>
<td>(0.381, 0.375)</td>
<td>(1.455, 1.491)</td>
<td>0.005</td>
<td>72.270</td>
<td>2 x 10⁻¹⁰⁺</td>
<td>0.448</td>
<td>(0.423, 0.471)</td>
<td>1.565</td>
<td>(1.527, 1.602)</td>
<td>0.012</td>
</tr>
<tr>
<td>Citation Interval</td>
<td>(0.312, 0.121)</td>
<td>(1.129, 1.131)</td>
<td>0.000</td>
<td>322.550</td>
<td>2 x 10⁻¹⁰⁺</td>
<td>0.121</td>
<td>(0.120, 0.122)</td>
<td>1.128</td>
<td>(1.127, 1.129)</td>
<td>0.008</td>
</tr>
<tr>
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<td>0.003</td>
<td>(0.002, 0.004)</td>
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<td>5.179</td>
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<tr>
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<tr>
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<tr>
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<td>7.42 x 10⁻⁴</td>
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<td>(-0.005, 0.006)</td>
<td>(-0.005, 0.006)</td>
<td>0.016</td>
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<td>0.032</td>
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<td>US Last Author</td>
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<td>Female First Author</td>
<td>-0.050</td>
<td>(0.935, 0.936)</td>
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<td>First Author Top 100 Institute</td>
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<td>Last Author Top 100 Institute</td>
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Random Effects |

<table>
<thead>
<tr>
<th>Variance</th>
<th>Matched Pair</th>
</tr>
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<tbody>
<tr>
<td>1.745</td>
<td>1.182</td>
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Model Specification |

| AIC | 495957 |
| Mean VIF | 2.595 |

B = Regression coefficient, including bootstrapped 95% confidence intervals. IRR = Incidence rate ratio, calculated as exp(B). VIF = Variance Inflation Factor. * = Dispersion parameter.

* 2 x 10⁻⁰⁰ represents the lower bound of p-values reported by R.

### Supplementary Table 2 – Tweets: negative binomial regression output

<table>
<thead>
<tr>
<th>Fixed Effects</th>
<th>Estimate (95% CI)</th>
<th>IRR (95% CI)</th>
<th>Std. Error</th>
<th>Z</th>
<th>p</th>
<th>Estimate (95% CI)</th>
<th>IRR (95% CI)</th>
<th>Std. Error</th>
<th>Z</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>(1.928, 1.990)</td>
<td>(6.619, 7.121)</td>
<td>0.019</td>
<td>101.670</td>
<td>2 x 10⁻¹⁰⁺</td>
<td>0.709</td>
<td>(0.610, 0.803)</td>
<td>2.032</td>
<td>(1.841, 2.233)</td>
<td>0.054</td>
</tr>
<tr>
<td>Deposited to bioRxiv</td>
<td>(0.804, 0.768)</td>
<td>(2.234, 2.516)</td>
<td>0.018</td>
<td>44.790</td>
<td>2 x 10⁻¹⁰⁺</td>
<td>0.847</td>
<td>(0.788, 0.904)</td>
<td>2.333</td>
<td>(2.199, 2.470)</td>
<td>0.029</td>
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<tr>
<td>IF</td>
<td>(1.017, 1.017)</td>
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<td>(-0.020, -0.007)</td>
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<td>-4.484</td>
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<td>OA</td>
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<tr>
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<td>(1.007, 1.015)</td>
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<tr>
<td>Female Last Author</td>
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<td>First Author Top 100 Institute</td>
<td>0.164</td>
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Random Effects |

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<th>Variance</th>
<th>Matched Pair</th>
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<tr>
<td>1.115</td>
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Model Parameters |

<table>
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<tbody>
<tr>
<td>Mean VIF</td>
<td>2.595</td>
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</table>

B = Regression coefficient, including bootstrapped 95% confidence intervals. IRR = Incidence rate ratio, calculated as exp(B), including bootstrapped 95% confidence intervals. AIC = Akaike Information Criteria. VIF = Variance Inflation Factor. * = Dispersion parameter.

* 2 x 10⁻⁰⁰ represents the lower bound of p-values reported by R.

<table>
<thead>
<tr>
<th>Model Parameters</th>
<th>Value</th>
<th>Value</th>
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</thead>
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<td>Academic Age</td>
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<tr>
<td>First Author</td>
<td>0.012</td>
<td>1.012</td>
</tr>
<tr>
<td>Last Author</td>
<td>-0.010</td>
<td>-0.090</td>
</tr>
<tr>
<td>US First Author</td>
<td>0.179</td>
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<tr>
<td>US Last Author</td>
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<td>1.007</td>
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<tr>
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<tr>
<td>Last Author Top 100 Institute</td>
<td>-0.083</td>
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<table>
<thead>
<tr>
<th>Reduced Model</th>
<th>Full Model</th>
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<tr>
<td>Last Author Top 100 Institute</td>
<td>-0.083</td>
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**B = Regression coefficient, including bootstrapped 95 % confidence intervals. IRR = Incidence rate ratio, calculated as exp(B), including bootstrapped 95 % confidence intervals. AIC = Akaike Information Criteria. VIF = Variance Inflation Factor. # = Dispersion parameter. *2 x 10-5 represents the lower bound of p-values reported by R.

### Supplementary Table 5 – Wikipedia mentions: negative binomial regression output

<table>
<thead>
<tr>
<th>Fixed Effects</th>
<th>Estimate (95% CI)</th>
<th>Std. Error</th>
<th>Z</th>
<th>p</th>
<th>Estimate (95% CI)</th>
<th>Std. Error</th>
<th>Z</th>
<th>p</th>
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</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>-4.293 (-3.420 - -3.174)</td>
<td>0.073</td>
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<td>-4.622 (-3.897)</td>
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<tr>
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<td>0.337 (0.212 - 0.463)</td>
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<td>IRR</td>
<td>0.079 (0.058 - 0.100)</td>
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<td>1.074</td>
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<td>IF</td>
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<tr>
<td>Academic Age</td>
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<tr>
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<tr>
<td>Female First Author</td>
<td>0.002 (0.001 - 0.017)</td>
<td>0.009</td>
<td>0.258</td>
<td>0.178</td>
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<tr>
<td>Female Last Author</td>
<td>0.003 (0.021 - 0.514)</td>
<td>0.204</td>
<td>-0.013</td>
<td>0.942</td>
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<tr>
<td>First Author Top 100 Institute</td>
<td>0.017 (0.671 - 1.253)</td>
<td>0.204</td>
<td>-0.368</td>
<td>0.789</td>
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<tr>
<td>Last Author Top 100</td>
<td>0.014 (0.997 - 1.024)</td>
<td>0.008</td>
<td>1.545</td>
<td>0.025</td>
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</table>

### Supplementary Table 6 – Mendeley reads: negative binomial regression output

<table>
<thead>
<tr>
<th>Fixed Effects</th>
<th>Estimate (95% CI)</th>
<th>Std. Error</th>
<th>Z</th>
<th>p</th>
<th>Estimate (95% CI)</th>
<th>Std. Error</th>
<th>Z</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intercept</td>
<td>3.585 (3.381 - 3.783)</td>
<td>0.015</td>
<td>223.630</td>
<td>2 x 10^-18</td>
<td>3.580 (3.474 - 3.685)</td>
<td>0.003</td>
<td>40.798</td>
<td>2 x 10^-14</td>
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<tr>
<td>Deposited to bioRxiv</td>
<td>0.622 (0.588 - 0.658)</td>
<td>0.017</td>
<td>36.350</td>
<td>2 x 10^-14</td>
<td>0.670 (0.636 - 0.706)</td>
<td>0.002</td>
<td>5.745</td>
<td>9.22 x 10^-3</td>
</tr>
<tr>
<td>IRR</td>
<td>0.013 (0.009 - 0.017)</td>
<td>0.017</td>
<td>5.494</td>
<td>1.011</td>
<td>(1.748 - 1.813)</td>
<td>0.027</td>
<td>22.173</td>
<td>2 x 10^-14</td>
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<tr>
<td>IF</td>
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<td>-0.795</td>
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<tr>
<td>Author Count</td>
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<td>0.001</td>
<td>5.745</td>
<td>9.22 x 10^-3</td>
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</tr>
<tr>
<td>OA</td>
<td>0.270 (0.209 - 0.337)</td>
<td>0.030</td>
<td>9.021</td>
<td>2 x 10^-14</td>
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<td>0.002</td>
<td>1.533</td>
<td>0.125</td>
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<tr>
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<td>0.016 (0.013 - 0.020)</td>
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<tr>
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<td>3.133</td>
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B = Regression coefficient, including bootstrapped 95% confidence intervals. IRR = Incidence rate ratio, calculated as exp(θ), including bootstrapped 95% confidence intervals. AIC = Akaike Information Criteria. VIF = Variance Inflation Factor. 0 = Dispersion parameter.

* 2 x 10^-16 represents the lower bound of p-values reported by R.