

Supplementary material for the paper:
The impact of the COVID-19 pandemic on scientific research in the life
sciences

January 21, 2022

Table S 1: **Common trend assumption (CTA) Regression Table.** Full Regression table with all controls and interactions.

	(1) ln(Papers)	(2) ln(Impact)	(3) ln(PMC)	(4) ln(Trials)	(5) ln(Grants)	(6) ln(Old Grants)
2019-03	-0.001 (-0.41)	-0.007 (-1.51)	-0.032*** (-10.32)	-0.019*** (-4.72)	-0.029*** (-9.40)	-0.022*** (-7.12)
2019-03	0.024*** (8.29)	0.011* (2.40)	0.005 (1.76)	0.004 (1.09)	-0.030*** (-9.58)	-0.033*** (-10.69)
2019-04	-0.004 (-1.30)	-0.023*** (-4.89)	-0.014*** (-4.60)	-0.031*** (-7.87)	-0.023*** (-7.48)	-0.018*** (-5.85)
2019-05	-0.018*** (-6.34)	-0.022*** (-4.78)	-0.005 (-1.56)	0.017*** (4.31)	-0.016*** (-5.19)	-0.025*** (-8.24)
2019-06	0.031*** (10.54)	-0.014** (-3.04)	0.001 (0.37)	-0.003 (-0.74)	-0.023*** (-7.39)	-0.037*** (-11.92)
2019-07	-0.009** (-3.12)	-0.023*** (-4.81)	0.015*** (4.86)	0.015*** (3.85)	-0.023*** (-7.49)	-0.035*** (-11.26)
2019-08	-0.002 (-0.70)	-0.028*** (-5.86)	-0.010** (-3.05)	-0.016*** (-4.06)	-0.033*** (-10.52)	-0.046*** (-14.97)
2019-09	0.017*** (5.90)	-0.015** (-3.12)	-0.010** (-3.13)	-0.014*** (-3.65)	-0.053*** (-17.02)	-0.073*** (-23.64)
2019-10	0.038*** (13.19)	0.022*** (4.83)	0.032*** (10.35)	-0.025*** (-6.19)	-0.009** (-3.02)	-0.040*** (-12.88)
2019-11	-0.003 (-1.10)	-0.009* (-1.98)	0.032*** (10.29)	-0.039*** (-9.79)	-0.017*** (-5.33)	-0.064*** (-20.80)
2019-12	0.094*** (32.00)	0.037*** (8.06)	0.126*** (39.21)	-0.020*** (-5.03)	0.004 (1.35)	-0.049*** (-15.79)
2020-01	-0.056*** (-18.39)	-0.062*** (-12.75)	-0.034*** (-10.47)	-0.080*** (-20.01)	-0.046*** (-14.28)	-0.108*** (-33.69)
2020-02	-0.093*** (-29.85)	-0.113*** (-23.12)	-0.072*** (-21.85)	-0.105*** (-26.06)	-0.077*** (-23.69)	-0.147*** (-45.46)
2020-03	-0.121*** (-37.45)	-0.146*** (-29.29)	-0.069*** (-20.33)	-0.153*** (-36.88)	-0.110*** (-32.68)	-0.177*** (-53.00)
2020-04	-0.206*** (-59.90)	-0.249*** (-47.87)	-0.161*** (-44.64)	-0.177*** (-41.43)	-0.187*** (-52.39)	-0.247*** (-70.53)
2020-05	-0.303*** (-84.07)	-0.352*** (-65.94)	-0.210*** (-55.94)	-0.240*** (-54.85)	-0.240*** (-63.99)	-0.297*** (-80.55)

2020-06	-0.243*** (-62.33)	-0.323*** (-58.38)	-0.117*** (-30.06)	-0.248*** (-55.86)	-0.232*** (-60.38)	-0.294*** (-79.10)
2020-07	-0.280*** (-72.11)	-0.343*** (-61.31)	-0.141*** (-35.81)	-0.286*** (-62.75)	-0.231*** (-59.39)	-0.299*** (-78.76)
2020-08	-0.330*** (-80.45)	-0.413*** (-72.08)	-0.199*** (-48.01)	-0.321*** (-67.97)	-0.279*** (-68.10)	-0.351*** (-88.07)
2020-09	-0.261*** (-62.18)	-0.348*** (-59.68)	-0.147*** (-35.28)	-0.303*** (-65.03)	-0.252*** (-60.64)	-0.338*** (-83.50)
2020-10	-0.175*** (-44.50)	-0.229*** (-40.85)	0.008* (2.23)	-0.315*** (-68.44)	-0.137*** (-36.63)	-0.271*** (-72.35)
2020-11	-0.172*** (-42.62)	-0.204*** (-35.23)	-0.018*** (-4.88)	-0.312*** (-67.63)	-0.141*** (-36.89)	-0.290*** (-76.78)
2020-12	-0.107*** (-25.85)	-0.185*** (-31.95)	0.043*** (10.93)	-0.276*** (-61.49)	-0.142*** (-36.54)	-0.266*** (-69.51)
20% ≤ σ ≤ 80%	0.249*** (3.67)	0.151 (1.93)	0.276*** (4.53)	0.113** (2.66)	0.198*** (3.49)	0.241*** (4.45)
80% ≤ σ ≤ 100%	-0.991*** (-4.55)	-1.282*** (-4.79)	-0.510** (-2.58)	-0.274* (-2.38)	-0.557** (-3.27)	-0.476** (-2.99)
2019-02 × 20% ≤ σ ≤ 80%	-0.047*** (-3.34)	-0.032 (-1.40)	-0.029* (-2.01)	-0.031 (-1.54)	-0.015 (-1.03)	0.005 (0.35)
2019-02 × 80% ≤ σ ≤ 100%	-0.186*** (-4.57)	-0.161* (-2.19)	-0.116* (-2.55)	-0.101 (-1.80)	-0.175*** (-3.47)	-0.123** (-2.84)
2019-03 × 20% ≤ σ ≤ 80%	-0.026 (-1.87)	-0.046* (-2.05)	-0.008 (-0.56)	0.095*** (4.47)	-0.007 (-0.48)	0.013 (0.92)
2019-03 × 80% ≤ σ ≤ 100%	-0.068 (-1.58)	-0.100 (-1.21)	-0.063 (-1.46)	-0.039 (-0.58)	-0.021 (-0.52)	0.028 (0.61)
2019-04 × 20% ≤ σ ≤ 80%	-0.017 (-1.21)	-0.035 (-1.48)	-0.013 (-0.92)	0.059** (2.90)	-0.016 (-1.10)	-0.005 (-0.36)
2019-04 × 80% ≤ σ ≤ 100%	-0.057 (-1.17)	-0.054 (-0.69)	-0.070 (-1.57)	0.092* (1.99)	-0.234*** (-4.19)	-0.233*** (-3.82)
2019-05 × 20% ≤ σ ≤ 80%	-0.030* (-2.24)	-0.040 (-1.77)	-0.008 (-0.53)	0.086*** (4.03)	-0.033* (-2.28)	-0.018 (-1.19)
2019-05 × 80% ≤ σ ≤ 100%	-0.112* (-2.19)	-0.156 (-1.85)	-0.101 (-1.81)	-0.060 (-0.84)	-0.087 (-1.80)	-0.101* (-2.53)
2019-06 × 20% ≤ σ ≤ 80%	-0.020 (-1.37)	-0.020 (-0.84)	0.001 (0.07)	-0.033 (-1.47)	0.027 (1.72)	0.037* (2.32)
2019-06 × 80% ≤ σ ≤ 100%	-0.035 (-0.69)	0.007 (0.09)	-0.036 (-0.61)	-0.009 (-0.19)	-0.006 (-0.10)	-0.001 (-0.01)
2019-07 × 20% ≤ σ ≤ 80%	-0.035* (-2.52)	-0.026 (-1.17)	-0.012 (-0.78)	0.029 (1.43)	-0.013 (-0.85)	0.001 (0.05)
2019-07 × 80% ≤ σ ≤ 100%	-0.208*** (-4.11)	-0.301*** (-3.84)	-0.176*** (-3.50)	0.092 (1.62)	-0.075 (-1.51)	-0.010 (-0.21)
2019-08 × 20% ≤ σ ≤ 80%	-0.005 (-0.34)	-0.003 (-0.13)	-0.000 (-0.01)	0.089*** (4.10)	0.005 (0.35)	0.002 (0.10)
2019-08 × 80% ≤ σ ≤ 100%	-0.168** (-3.13)	-0.235* (-2.57)	-0.185*** (-3.34)	-0.023 (-0.36)	-0.156** (-2.64)	-0.236*** (-3.48)
2019-09 × 20% ≤ σ ≤ 80%	-0.000 (-0.01)	0.026 (1.17)	-0.004 (-0.29)	0.041* (2.02)	0.027 (1.71)	0.019 (1.17)
2019-09 × 80% ≤ σ ≤ 100%	-0.041	0.043	-0.007	0.124	0.051	0.157*

	(-0.68)	(0.45)	(-0.13)	(1.91)	(0.87)	(2.55)
2019-10 × 20% ≤ σ ≤ 80%	-0.019 (-1.34)	-0.013 (-0.55)	-0.034* (-2.26)	0.044* (2.15)	-0.003 (-0.17)	0.024 (1.58)
2019-10 × 80% ≤ σ ≤ 100%	-0.018 (-0.39)	-0.052 (-0.80)	-0.069 (-1.59)	-0.026 (-0.42)	-0.005 (-0.15)	0.040 (0.91)
2019-11 × 20% ≤ σ ≤ 80%	-0.035* (-2.56)	-0.049* (-2.15)	-0.045** (-3.06)	0.009 (0.43)	-0.051*** (-3.40)	-0.054*** (-3.52)
2019-11 × 80% ≤ σ ≤ 100%	-0.010 (-0.14)	-0.028 (-0.26)	-0.011 (-0.14)	0.036 (0.70)	-0.036 (-0.63)	-0.048 (-0.87)
2019-12 × 20% ≤ σ ≤ 80%	-0.020 (-1.38)	-0.034 (-1.51)	-0.040* (-2.49)	-0.020 (-1.02)	0.002 (0.10)	-0.002 (-0.10)
2019-12 × 80% ≤ σ ≤ 100%	-0.037 (-0.54)	-0.054 (-0.56)	-0.083 (-1.27)	-0.135* (-2.20)	-0.013 (-0.23)	0.101 (1.69)
2020-01 × 20% ≤ σ ≤ 80%	-0.070*** (-4.81)	-0.050* (-2.03)	-0.047** (-3.13)	0.007 (0.31)	-0.038* (-2.35)	-0.031 (-1.93)
2020-01 × 80% ≤ σ ≤ 100%	0.272** (2.75)	0.301* (2.20)	0.250** (2.69)	-0.066 (-1.06)	0.142* (1.99)	0.104 (1.54)
2020-02 × 20% ≤ σ ≤ 80%	-0.060*** (-3.97)	-0.030 (-1.26)	-0.025 (-1.60)	0.013 (0.57)	-0.018 (-1.13)	-0.005 (-0.29)
2020-02 × 80% ≤ σ ≤ 100%	0.535*** (4.21)	0.704*** (4.43)	0.452*** (3.71)	0.047 (0.75)	0.223* (2.46)	0.243** (3.08)
2020-03 × 20% ≤ σ ≤ 80%	-0.062*** (-3.77)	-0.049* (-1.98)	-0.036* (-2.16)	-0.052* (-2.41)	-0.047** (-2.73)	-0.048** (-2.76)
2020-03 × 80% ≤ σ ≤ 100%	0.979*** (6.25)	1.120*** (5.80)	0.849*** (6.06)	-0.065 (-1.24)	0.569*** (5.43)	0.447*** (5.00)
2020-04 × 20% ≤ σ ≤ 80%	-0.001 (-0.06)	0.013 (0.50)	0.050** (2.77)	-0.005 (-0.23)	-0.019 (-1.08)	-0.032 (-1.71)
2020-04 × 80% ≤ σ ≤ 100%	1.505*** (7.87)	1.627*** (7.38)	1.423*** (8.05)	0.406*** (5.33)	0.917*** (6.75)	0.745*** (6.07)
2020-05 × 20% ≤ σ ≤ 80%	0.105*** (5.47)	0.176*** (6.47)	0.220*** (11.04)	0.027 (1.18)	0.028 (1.50)	-0.003 (-0.17)
2020-05 × 80% ≤ σ ≤ 100%	1.903*** (9.04)	2.223*** (9.34)	1.849*** (9.19)	0.357*** (5.53)	1.229*** (8.10)	1.154*** (8.21)
2020-06 × 20% ≤ σ ≤ 80%	0.224*** (10.68)	0.267*** (9.24)	0.356*** (16.32)	0.016 (0.67)	0.091*** (4.71)	0.033 (1.75)
2020-06 × 80% ≤ σ ≤ 100%	2.167*** (9.79)	2.433*** (9.93)	2.130*** (9.87)	0.897*** (6.84)	1.492*** (8.68)	1.277*** (7.87)
2020-07 × 20% ≤ σ ≤ 80%	0.264*** (12.63)	0.385*** (13.25)	0.451*** (20.64)	0.058* (2.42)	0.130*** (6.73)	0.114*** (5.94)
2020-07 × 80% ≤ σ ≤ 100%	2.383*** (10.63)	2.747*** (11.10)	2.359*** (10.61)	0.979*** (7.59)	1.551*** (8.28)	1.465*** (8.28)
2020-08 × 20% ≤ σ ≤ 80%	0.292*** (13.42)	0.402*** (13.48)	0.488*** (21.71)	0.122*** (5.32)	0.108*** (5.36)	0.083*** (4.25)
2020-08 × 80% ≤ σ ≤ 100%	2.394*** (10.37)	2.760*** (10.82)	2.399*** (10.51)	1.352*** (7.65)	1.606*** (8.85)	1.577*** (9.31)
2020-09 × 20% ≤ σ ≤ 80%	0.284*** (12.64)	0.385*** (12.69)	0.447*** (19.20)	0.031 (1.28)	0.142*** (7.03)	0.118*** (5.71)
2020-09 × 80% ≤ σ ≤ 100%	2.411*** (10.69)	2.739*** (11.13)	2.409*** (10.79)	1.111*** (7.56)	1.672*** (9.10)	1.590*** (9.06)

2020-10 \times 20% $\leq \sigma \leq$ 80%	0.259*** (11.47)	0.341*** (11.26)	0.408*** (18.31)	0.035 (1.41)	0.150*** (7.59)	0.142*** (7.26)
2020-10 \times 80% $\leq \sigma \leq$ 100%	2.342*** (10.29)	2.695*** (10.94)	2.265*** (10.01)	1.165*** (7.91)	1.705*** (9.11)	1.614*** (9.23)
2020-11 \times 20% $\leq \sigma \leq$ 80%	0.272*** (10.78)	0.360*** (10.42)	0.434*** (18.20)	0.113*** (4.77)	0.142*** (6.91)	0.119*** (5.79)
2020-11 \times 80% $\leq \sigma \leq$ 100%	2.387*** (10.52)	2.774*** (11.32)	2.298*** (10.27)	1.180*** (8.01)	1.537*** (8.12)	1.451*** (8.16)
2020-12 \times 20% $\leq \sigma \leq$ 80%	0.284*** (11.42)	0.366*** (10.70)	0.411*** (17.14)	0.071** (2.92)	0.130*** (6.09)	0.113*** (5.31)
2020-12 \times 80% $\leq \sigma \leq$ 100%	2.346*** (10.28)	2.745*** (11.01)	2.259*** (10.09)	1.626*** (9.27)	1.655*** (8.82)	1.588*** (8.98)
Constant	2.715*** (226.07)	3.598*** (256.29)	1.968*** (181.82)	0.690*** (85.95)	1.636*** (160.07)	1.401*** (145.25)
Observations	679,632	679,632	679,632	417,552	679,632	679,632
MeSH Terms	28,318	28,318	28,318	17,398	28,318	28,318
R2 within	0.103	0.063	0.061	0.108	0.057	0.095
R2 between	0.001	0.000	0.002	0.001	0.001	0.001
R2 overall	0.005	0.005	0.005	0.019	0.004	0.008

t statistics in parentheses, Std. Err. adjusted by MeSH-id. All outcome variables are in natural log.

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$