GEOFFREY DONOVAN SELECTED PUBLICATIONS

URBAN FORESTS AND PUBLIC HEALTH

Donovan, G.H., Prestemon, J. P, Kaminski, A. R, & Michael, Y. L. 2025. Tree planting and birthweight. Science of the Total Environment. *In presss*.

Donovan, G.H., Derrien, M., Wendel, K. & Michael, Y. L. (2024). <u>Old lessons for new</u> <u>science: How sacred-tree metaphors can inform studies of the public-health benefits of</u> <u>the natural environment</u>. Heliyon. 10.

Potter, J. D., Brooks, C., **Donovan, G.H**., Cunningham, C. & Douwes, J. 2023. <u>A perspective</u> on green, blue, and grey spaces, biodiversity, microbiota, and human health. Science of the Total Environment. 892, 164772.

Godina, S. L., Rosso, A. L., Hirsch, J. A., Besser, L. M., Lovasi, G. S., **Donovan, G.H**., et al. 2023. <u>Neighborhood greenspace and cognition: The cardiovascular health study</u>. Health & place. 79, 102960.

Torres Toda, M., Avraam, D., James Cadman, T., Fossati, S., de Castro, M., Dedele, A., **Donovan, G.H**, et al. 2022. Exposure to natural environments during pregnancy and birth outcomes in 11 European birth cohorts. Environment International. 170, 107648.

Donovan, G.H., Prestemon, J. P., Gatziolis, D., Michael, Y. L., Kaminski, A. R. & Dadvand, P. 2022. <u>The association between tree planting and mortality: A natural experiment and</u> <u>cost-benefit analysis</u>. Environment International 170, 107609. **Donovan, G.H**., Gatziolis, D., Derrien, M., Michael, Y. L., Prestemon, J. P. & Douwes, J. 2022. <u>Shortcomings of the normalized difference vegetation index as an exposure metric</u>. Nature Plants. 8, 617-622.

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Donovan, G.H., Prestemon, J. P. & Kaminski, A. R. 2022. <u>The natural environment and</u> social cohesion: Tree planting is associated with increased voter turnout in Portland, <u>Oregon</u>. Trees, Forests and People. 7.

Donovan, G.H., Gatziolis, D., Mannetje, A.t., Weinkove, R., Fyfe, C., Douwes, J., 2021. <u>An</u> empirical test of the biodiversity hypothesis: Exposure to plant diversity is associated with a reduced risk of childhood acute lymphoblastic leukemia. Science of the Total Environment 768: 144627.

Hartley, K., Ryan, P. H., Gillespie, G. L., Perazzo, J., Wright, J. M., Rice, G. E., Donovan,
G.H., et al. 2022. <u>Residential greenness, asthma, and lung function among children at high</u> risk of allergic sensitization: a prospective cohort study. Environmental Health. 21, 1-11.

Donovan, G.H., Landry, S.M., Gatziolis, D., 2021. <u>The natural environment, plant diversity,</u> and adult asthma: A retrospective observational study using the CDC's 500 Cities Project <u>Data</u>. Health and Place 67: 102494.

Donovan, G.H., Y. L. Michael, D. Gatziolis, A. T. Mannetje and J. Douwes 2019. <u>Association between exposure to the natural environment, rurality, and attention-deficit hyperactivity disorder in children in New Zealand: a linkage study</u>. *The Lancet Planetary Health* 3(5): e226-e234.

Donovan, G.H., D. Gatziolis and J. Douwes 2019. <u>Relationship between exposure to the</u> natural environment and recovery from hip or knee arthroplasty: A New Zealand retrospective cohort study. *BMJ Open* 9(9).

Donovan, G.H., D. Gatziolis, K. Jakstis and S. Comess 2019. <u>The natural environment and</u> <u>birth outcomes: Comparting 3D exposure metrics derived from LiDAR to 2D metrics based</u> <u>on the normalized difference vegetation index</u>. *Health and Place* 57: 305-312.

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Donovan, G.H., S.E. Jovan, D. Gatziolis, I. Burstyn, Y.L. Michael, M.C. Amacher and V.J. Monleon. 2016. <u>Using an epiphytic moss to identify previously unknown sources of atmospheric cadmium pollution</u>. *Science of the Total Environment* 559: 84-93.

Donovan, G.H., Y.L. Michael, D. Gatziolis, J.P. Prestemon and E.A. Whitsel. 2015<u>. Is tree</u> loss associated with cardiovascular-disease risk in the Women's Health Initiative? A natural experiment. *Health and Place* 36: 1-7 **Donovan, G.H**., D.T. Butry, Y.L. Michael, J.P. Prestemon, A.M. Liebhold, D. Gatziolis and M.Y. Mao. 2013. <u>The relationship between trees and human health: Evidence from the</u> spread of the emerald ash borer. *American Journal of Preventive Medicine*. 44: 139-145.

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Donovan, G.H., David Butry. 2010. <u>Trees in the city: valuing street trees in Portland,</u> <u>Oregon</u>. *Landscape and Urban Planning*. 94: 77-83

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Donovan, G.H., D.T. Butry and M.Y. Mao. 2016. <u>Statistical Analysis of Vegetation and</u> <u>Stormwater Runoff in an Urban Watershed During Summer and Winter Storms in Portland,</u> <u>Oregon</u>, U.S. *Journal of Arboriculture and Urban Forestry* 42: 318-328.

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ENVIRONMENTAL JUSTICE

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Donovan, G.H. and J. Mills. 2014. Environmental Justice and Factors that Influence Participation in Tree Planting Programs in Portland, Oregon, US. Arboriculture & Urban Forestry 40(2): 70-77.