

**IQOS publications 2018-2021**

Title	Authors	Citation	Date
A newly developed aerosol exposure apparatus for heated tobacco products for in vivo experiments can deliver both particles and gas phase with high recovery and depicts the time-dependent variation in nicotine metabolites in mouse urine	Sawa M, Ushiyama A, Inaba Y, Uchiyama S, Hattori K, Ogasawara Y, Ishii K.	Nicotine Tob Res. 2021 Jun 10;ntab123. doi: 10.1093/ntr/ntab123. Online ahead of print.	2021/06/10
Unburned tobacco cigarette smoke alters rat ultrastructural lung airways and DNA	Vivarelli F, Canistro D, Cirillo S, Elias RJ, Granata S, Mussoni M, Burattini S, Falcieri E, Turrini E, Firmognari C, Buschini A, Lazzaretti M, Beghi S, Girotti S, Sangiorgi S, Bolelli L, Ghini S, Ferri EN, Fagiolino I, Franchi P, Lucarini M, Mercatante D, Rodriguez-Estrada MT, Lorenzini A, Marchionni S, Gabriele M, Longo V, Paolini M.	Nicotine Tob Res. 2021 May 24;ntab108. doi: 10.1093/ntr/ntab108. Online ahead of print.	2021/05/26
Heat-not-burn tobacco (IQOS), oral fibroblasts and keratinocytes: cytotoxicity, morphological analysis, apoptosis and cellular cycle. An in vitro study	Pagano S, Negri P, Coniglio M, Bruscoli S, Di Michele A, Marchetti MC, Valenti C, Gambelunghe A, Fanasca L, Billi M, Cianetti S, Marinucci L.	J Periodontal Res. 2021 May 21. doi: 10.1111/jre.12888. Online ahead of print.	2021/05/21
Comparison of IQOS (heated tobacco) and cigarette smoking on cardiac functions by two-dimensional speckle tracking echocardiography	Yaman B, Akpınar O, Kemal HS, Cerit L, Yüsek Ü, Söylemez N, Duygu H.	Toxicol Appl Pharmacol. 2021 Jul 15;423:115575. doi: 10.1016/j.taap.2021.115575. Epub 2021 May 14.	2021/05/17
Nicotine delivery and user ratings of IQOS heated tobacco system compared to cigarettes, Juul and refillable e-cigarettes	Phillips-Waller A, Przulj D, Pesola F, Myers Smith K, Hajek P.	Nicotine Tob Res. 2021 May 13;ntab094. doi: 10.1093/ntr/ntab094. Online ahead of print.	2021/05/13
Categorizing IQOS-Related Twitter Discussions	Barker JO, Vassey J, Chen-Sankey JC, Allem JP, Cruz TB, Unger JB.	Int J Environ Res Public Health. 2021 Apr 30;18(9):4836. doi: 10.3390/ijerph18094836.	2021/05/05
Philip Morris International used the e-cigarette, or vaping, product use associated lung injury (EVALI) outbreak to market IQOS heated tobacco	Ayers JW, Leas EC, Dredze M, Caputi TL, Zhu SH, Cohen JE.	Tob Control. 2021 Apr 16;tobaccocontrol-2021-056661. doi: 10.1136/tobaccocontrol-2021-056661. Online ahead of print.	2021/04/17
I perceive it to be less harmful, I have no idea if it is or not: a qualitative exploration of the harm perceptions of IQOS among adult users	East KA, Tompkins CNE, McNeill A, Hitchman SC.	Harm Reduct J. 2021 Apr 13;18(1):42. doi: 10.1186/s12954-021-00490-8.	2021/04/14
Trends and Patterns of Tobacco and Nicotine Product Use Among Youth in Canada, England, and the United States From 2017 to 2019	East KA, Reid JL, Rynard VL, Hammond D.	J Adolesc Health. 2021 Apr 7:S1054-139X(21)00096-3. doi: 10.1016/j.jadohealth.2021.02.011. Online ahead of print.	2021/04/11
Heated tobacco product awareness, use, and perceptions in a sample of young adults in the U.S	Berg CJ, Romm KF, Patterson B, Wysota CN.	Nicotine Tob Res. 2021 Apr 2;ntab058. doi: 10.1093/ntr/ntab058. Online ahead of print.	2021/04/06
FDA's reduced exposure marketing order for IQOS: why it is not a reliable global model	Lempert LK, Bialous S, Glantz S.	Tob Control. 2021 Apr 2;tobaccocontrol-2020-056316. doi: 10.1136/tobaccocontrol-2020-056316. Online ahead of print.	2021/04/03
Health outcomes in COPD smokers using heated tobacco products: a 3-year follow-up	Polosa R, Morjaria JB, Prosperini U, Busà B, Pennisi A, Gussoni G, Rust S, Maglia M, Caponnetto P.	Intern Emerg Med. 2021 Apr;16(3):687-696. doi: 10.1007/s11739-021-02674-3. Epub 2021 Mar 23.	2021/03/23
Prevalence of heated tobacco product use in Japan: the 2020 JASTIS study	Odani S, Tabuchi T.	Tob Control. 2021 Mar 11;tobaccocontrol-2020-056257. doi: 10.1136/tobaccocontrol-2020-056257. Online ahead of print.	2021/03/12
Effects of modified risk tobacco product claims on consumer comprehension and risk perceptions of IQOS	Yang B, Massey ZB, Popova L.	Tob Control. 2021 Mar 9;tobaccocontrol-2020-056191. doi: 10.1136/tobaccocontrol-2020-056191. Online ahead of print.	2021/03/10
Effects of conventional and heated tobacco product smoking on discoloration of artificial denture teeth	Wang Y, Ryu R, Seo JM, Lee JJ.	J Prosthet Dent. 2021 Feb 16:S0022-3913(20)30444-3. doi: 10.1016/j.prosdent.2020.05.031. Online ahead of print.	2021/02/20
Google shopping queries for vaping products, JUUL and IQOS during the E-cigarette, or Vaping, product use Associated Lung Injury (EVALI) outbreak [Tobacco heated products: a new challenge in tobacco control]	Leas EC, Moy NH, Nobles AL, Ayers J, Zhu SH, Purushothaman V.	Tob Control. 2021 Feb 19;tobaccocontrol-2021-056481. doi: 10.1136/tobaccocontrol-2021-056481. Online ahead of print.	2021/02/20
Perceptions of heated tobacco products (HTPs) and intention to quit among adult tobacco users in Korea	Peruga A, Rodríguez Lozano F, López MJ, Córdoba García R, Nerín I, Sureda X, Fernández E.	Gac Sanit. 2021 Feb 6:S0213-9111(21)00007-8. doi: 10.1016/j.gaceta.2020.12.033. Online ahead of print.	2021/02/10
Perceptions of heated tobacco products (HTPs) and intention to quit among adult tobacco users in Korea	Park J, Kim HJ, Shin SH, Park E, Oh JK, Park EY, Lim MK.	J Epidemiol. 2021 Feb 6. doi: 10.2188/jea.JE20200213. Online ahead of print.	2021/02/08
Early adoption of heated tobacco products resembles that of e-cigarettes	Zhu SH, Ong J, Wong S, Cole A, Zhuang YL, Shi Y.	Tob Control. 2021 Feb 4;tobaccocontrol-2020-056089. doi: 10.1136/tobaccocontrol-2020-056089. Online ahead of print.	2021/02/05
Heated Tobacco Products: Awareness and Ever Use Among U.S. Adults	Azagba S, Shan L.	Am J Prev Med. 2021 May;60(5):684-691. doi: 10.1016/j.amepre.2020.11.011. Epub 2021 Jan 29.	2021/02/01
Effect of Switching to the Tobacco Heating System Versus Continued Cigarette Smoking on Chronic Generalized Periodontitis Treatment Outcome: Protocol for a Randomized Controlled Multicenter Study	Pouly S, Ng WT, Benzimra M, Soulan A, Blanc N, Zanetti F, Picavet P, Baker G, Haziza C.	JMIR Res Protoc. 2021 Jan 18;10(1):e15350. doi: 10.2196/15350.	2021/01/18
USE AND AWARENESS OF HEATED TOBACCO PRODUCTS IN EUROPE	Gallus S, Lugo A, Liu X, Borroni E, Clancy L, Gorini G, Lopez MJ, Odone A, Przewozniak K, Tigova O, VAN DEN Brandt P, Vardavas C, Fernandez E; TackSHS Project Investigators.	J Epidemiol. 2021 Jan 16. doi: 10.2188/jea.JE20200248. Online ahead of print.	2021/01/18
Heated tobacco product use among US adolescents in 2019: The new tobacco risk	Lee J, Thompson LA, Salloum RG.	Tob Prev Cessat. 2021 Jan 8;7:01. doi: 10.18332/tpc/130502. eCollection 2021.	2021/01/13
Evaluation of Tobacco Product-Selling Websites Accessed Using Search Engines	Çoban T, İncesoy AC, Demir B, Karabiber E, Gül Ö, Çoban Ö, Tosun S, Gölbaşı SD, Güvenir S, Yardım M, Özcebe H.	Turk Thorac J. 2020 Nov;21(6):377-382. doi: 10.5152/TurkThoracJ.2019.190124. Epub 2020 Nov 1.	2020/12/22

Prevalence of heated tobacco product use among adolescents in Taiwan	Chang LC, Lee YC, Hsu C, Chen PC.	PLoS One. 2020 Dec 21;15(12):e0244218. doi: 10.1371/journal.pone.0244218. eCollection 2020.	2020/12/21
Acute Effects of Heated Tobacco Product (IQOS) Aerosol Inhalation on Lung Tissue Damage and Inflammatory Changes in the Lungs	Bhat TA, Kalathil SG, Leigh N, Muthumalage T, Rahman I, Goniewicz ML, Thanavala YM.	Nicotine Tob Res. 2021 Jun 8;23(7):1160-1167. doi: 10.1093/ntr/ntaa267.	2020/12/21
A survey of users of the IQOS tobacco vaporizer: perceived dependence and perceived effects on cigarette withdrawal symptoms	Queloz S, Etter JF.	J Addict Dis. 2021 Apr-Jun;39(2):208-214. doi: 10.1080/10550887.2020.1847994. Epub 2020 Dec 18.	2020/12/18
Directions and Challenges in Smoking Cessation Treatment	Kim JY.	Tuberc Respir Dis (Seoul). 2020 Dec;83(Supple 1):S1-S5. doi: 10.4046/trd.2020.0150. Epub 2020 Dec 2.	2020/12/02
Do Young Adults Attend to Health Warnings in the First IQOS Advertisement in the U.S.? An Eye-Tracking Approach	Liu J, Phua J, Krugman D, Xu L, Nowak G, Popova L.	Nicotine Tob Res. 2021 May 4;23(5):815-822. doi: 10.1093/ntr/ntaa243.	2020/11/27
Successful countering of tobacco industry efforts to overturn Thailand's ENDS ban	Patanavanich R, Glantz S.	Tob Control. 2020 Nov 23;tobaccocontrol-2020-056058. doi: 10.1136/tobaccocontrol-2020-056058. Online ahead of print.	2020/11/24
Exposure Assessment of Environmental Tobacco Aerosol from Heated Tobacco Products: Nicotine and PM Exposures under Two Limited Conditions	Hirano T, Shobayashi T, Takei T, Wakao F.	Int J Environ Res Public Health. 2020 Nov 18;17(22):8536. doi: 10.3390/ijerph17228536.	2020/11/21
Comparison of the biological impact of aerosol of e-vapor device with MESH® technology and cigarette smoke on human bronchial and alveolar cultures	Giralt A, Iskandar AR, Martin F, Moschini E, Serchi T, Kondylis A, Marescotti D, Leroy P, Ortega-Torres L, Majeed S, Merg C, Trivedi K, Guedj E, Frenzel S, Ivanov NV, Peitsch MC, Gutleb AC, Hoeng J.	Toxicol Lett. 2021 Feb 1;337:98-110. doi: 10.1016/j.toxlet.2020.11.006. Epub 2020 Nov 18.	2020/11/21
Impact of switching to a heat-not-burn tobacco product on CYP1A2 activity	van der Plas A, Pouly S, Blanc N, Haziza C, de La Bourdonnaye G, Titz B, Hoeng J, Ivanov NV, Taranu B, Heremans A.	Toxicol Rep. 2020 Oct 29;7:1480-1486. doi: 10.1016/j.toxrep.2020.10.017. eCollection 2020.	2020/11/18
Creating a market for IQOS: analysis of Philip Morris' strategy to introduce heated tobacco products to the Australian consumer market	Watts C, Burton S, Freeman B.	Tob Control. 2020 Nov 15;tobaccocontrol-2020-056057. doi: 10.1136/tobaccocontrol-2020-056057. Online ahead of print.	2020/11/16
Estimating the Carcinogenic Potency of Second-Hand Smoke and Aerosol from Cigarettes and Heated Tobacco Products	Hirano T, Takei T.	Int J Environ Res Public Health. 2020 Nov 10;17(22):8319. doi: 10.3390/ijerph17228319.	2020/11/13
Unboxed: US Young Adult Tobacco Users' Responses to a New Heated Tobacco Product	Kim M, Watkins SL, Koester KA, Mock J, Kim HC, Olson S, Harvanko AM, Ling PM.	Int J Environ Res Public Health. 2020 Nov 3;17(21):8108. doi: 10.3390/ijerph17218108.	2020/11/06
Reasons for Regularly Using Heated Tobacco Products among Adult Current and Former Smokers in Japan: Finding from 2018 ITC Japan Survey	Xu SS, Meng G, Yan M, Gravely S, Quah ACK, Ouimet J, O'Connor RJ, Sutanto E, Yoshimi I, Mochizuki Y, Tabuchi T, Fong GT.	Int J Environ Res Public Health. 2020 Oct 31;17(21):8030. doi: 10.3390/ijerph17218030.	2020/11/04
Effects of Fetal Exposure to Heat-Not-Burn Tobacco on Testicular Function in Male Offspring	Yoshida S, Ichinose T, Shibamoto T.	Biol Pharm Bull. 2020;43(11):1687-1692. doi: 10.1248/bpb.b20-00390.	2020/11/02
Perceived relative harm of heated tobacco products (IQOS), e-cigarettes, and cigarettes among adults in Canada: Findings from the ITC Project	Sutanto E, Miller CR, Smith DM, O'Connor RJ, Gravely S, Hammond D, Hyland A, Cummings KM, Quah ACK, Fong GT, Agar TK, Goniewicz ML.	Tob Induc Dis. 2020 Sep 21;18:81. doi: 10.18332/tid/127233. eCollection 2020.	2020/10/05
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Awareness, trial and use of heated tobacco products among adult cigarette smokers and e-cigarette users: findings from the 2018 ITC Four Country Smoking and Vaping Survey	Miller CR, Sutanto E, Smith DM, Hitchman SC, Gravely S, Yong HH, Borland R, O'Connor RJ, Cummings KM, Fong GT, Hyland A, Quah ACK, Goniewicz ML.	Tob Control. 2020 Sep 29;tobaccocontrol-2020-055985. doi: 10.1136/tobaccocontrol-2020-055985. Online ahead of print.	2020/09/30
Assessment of tobacco heating system 2.4 on osteogenic differentiation of mesenchymal stem cells and primary human osteoblasts compared to conventional cigarettes	Aspera-Werz RH, Ehner S, Müller M, Zhu S, Chen T, Weng W, Jacoby J, Nussler AK.	World J Stem Cells. 2020 Aug 26;12(8):841-856. doi: 10.4252/wjsc.v12.i8.841.	2020/09/21
An Analysis of the FTC's Attempt to Stop the Altria-Juul Labs Deal	Levy DT, Douglas CE, Sanchez-Romero LM, Cummings KM, Swenor DT.	Tob Regul Sci. 2020 Jul;6(4):302-305. doi: 10.18001/TRS.6.4.7.	2020/09/09
Comparative Indoor Pollution from Glo, Iqos, and Juul, Using Traditional Combustion Cigarettes as Benchmark: Evidence from the Randomized SUR-VAPES AIR Trial	Peruzzi M, Cavarretta E, Frati G, Carnevale R, Miraldi F, Biondi-Zoccai G, Sciarretta S, Versaci F, Cammalleri V, Avino P, Protano C, Vitali M.	Int J Environ Res Public Health. 2020 Aug 19;17(17):6029. doi: 10.3390/ijerph17176029.	2020/08/23
The Public Health Standard in Action-Analysis of the US Food and Drug Administration's IQOS Review	Berman ML, Glasser AM.	JAMA Oncol. 2020 Dec 1;6(12):1864-1865. doi: 10.1001/jamaoncol.2020.3316.	2020/08/22
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The Ill Effects of IQOS on Airway Cells: Let's Not Get Burned All Over Again	McAlinden KD, Eapen MS, Lu W, Sharma P, Sohal SS.	Am J Respir Cell Mol Biol. 2020 Aug;63(2):269-270. doi: 10.1165/rcmb.2020-0094LE.	2020/08/01
Informing IQOS Regulations in the United States: A Synthesis of What We Know	Berg CJ, Bar-Zeev Y, Levine H.	Sage Open. 2020 Jan-Mar;10(1):10.1177/2158244019898823. doi: 10.1177/2158244019898823. Epub 2020 Jan 9.	2020/07/29
Comparing the Characteristics of Cigarette Smoking and e-Cigarette and IQOS Use among Adolescents in Taiwan	Lee YC, Chang LC, Hsu C, Chen PC.	J Environ Public Health. 2020 Jun 20;2020:7391587. doi: 10.1155/2020/7391587. eCollection 2020.	2020/07/14
Heated tobacco product use and associated factors among U.S. youth, 2019	Dai H.	Drug Alcohol Depend. 2020 Sep 1;214:108150. doi: 10.1016/j.drugalcdp.2020.108150. Epub 2020 Jul 2.	2020/07/10

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Acute Effects of a Heat-Not-Burn Tobacco Product on Pulmonary Function	Pataka A, Kotoulas S, Chatzopoulos E, Grigoriou I, Sapidis K, Kosmidis C, Vagionas A, Perdikouri EI, Drevelegas K, Zarogoulidis P, Argyropoulou P.	Medicina (Kaunas). 2020 Jun 12;56(6):292. doi: 10.3390/medicina56060292.	2020/06/18
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Identification of volatile constituents released from IQOS heat-not-burn tobacco HeatSticks using a direct sampling method	Ilies BD, Moosakutty SP, Kharbatia NM, Sarathy SM.	Tob Control. 2020 May 26;tobaccocontrol-2019-055521. doi: 10.1136/tobaccocontrol-2019-055521. Online ahead of print.	2020/05/28
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Impact of Electronic Alternatives to Tobacco Cigarettes on Indoor Air Particular Matter Levels	Protano C, Manigrasso M, Cammalleri V, Biondi Zoccai G, Frati G, Avino P, Vitali M.	Int J Environ Res Public Health. 2020 Apr 24;17(8):2947. doi: 10.3390/ijerph17082947.	2020/04/30
Perception of E-cigarette Use among Adult Users in China: A Mixed-method Study	Zhao D, Zuo Y, Urmi DS, Liu Y, Zheng P, Fan W, Abdullah AS.	Int J Environ Res Public Health. 2020 Apr 16;17(8):2754. doi: 10.3390/ijerph17082754.	2020/04/23
IQOS is not an acronym: a call to researchers and journals	Seidenberg A, Freeman B.	Tob Control. 2021 May;30(3):356-358. doi: 10.1136/tobaccocontrol-2019-055571. Epub 2020 Apr 16.	2020/04/18
Smoking Upregulates Angiotensin-Converting Enzyme-2 Receptor: A Potential Adhesion Site for Novel Coronavirus SARS-CoV-2 (Covid-19)	Brake SJ, Barnsley K, Lu W, McAlinden KD, Eapen MS, Sohail SS.	J Clin Med. 2020 Mar 20;9(3):841. doi: 10.3390/jcm9030841.	2020/04/05
Comprehensive chemical characterization of the aerosol generated by a heated tobacco product by untargeted screening	Bentley MC, Almstetter M, Arndt D, Knorr A, Martin E, Pospisil P, Maeder S.	Anal Bioanal Chem. 2020 Apr;412(11):2675-2685. doi: 10.1007/s00216-020-02502-1. Epub 2020 Feb 18.	2020/02/20
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PMI's heated tobacco products marketing claims of reduced risk and reduced exposure may entice youth to try and continue using these products	McKelvey K, Baiocchi M, Halpern-Felsher B.	Tob Control. 2020 Dec;29(e1):e18-e24. doi: 10.1136/tobaccocontrol-2019-055318. Epub 2020 Feb 6.	2020/02/08
IQOS debut in the USA: Philip Morris International's heated tobacco device introduced in Atlanta, Georgia	Churchill V, Weaver SR, Spears CA, Huang J, Massey ZB, Fairman RT, Pechacek TF, Ashley DL, Popova L.	Tob Control. 2020 Dec;29(e1):e152-e154. doi: 10.1136/tobaccocontrol-2019-055488. Epub 2020 Feb 5.	2020/02/07
A Philip Morris advertisement for its heated tobacco product IQOS sets a troubling precedent	Leas EC, Cohen JE, Ayers JW.	Tob Control. 2020 Dec;29(e1):e168-e170. doi: 10.1136/tobaccocontrol-2019-055363. Epub 2020 Feb 4.	2020/02/06
Correction to: E-cigarettes: harm reduction or rehabilitation of the tobacco industry?	Maziak W.	Int J Public Health. 2020 Mar;65(2):163. doi: 10.1007/s00038-019-01323-z.	2020/01/23
Non-inferiority trial comparing cigarette consumption, adoption rates, acceptability, tolerability, and tobacco harm reduction potential in smokers switching to Heated Tobacco Products or electronic cigarettes: Study protocol for a randomized controlled trial	Caponnetto P, Caruso M, Maglia M, Emma R, Saitta D, Busà B, Polosa R, Prosperini U, Pennisi A, Benfatto F, Sartorio C, Guastella M, Mondati E.	Contemp Clin Trials Commun. 2020 Jan 8;17:100518. doi: 10.1016/j.conctc.2020.100518. eCollection 2020 Mar.	2020/01/21
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Prevalence, Use Behaviors, and Preferences among Users of Heated Tobacco Products: Findings from the 2018 ITC Japan Survey	Sutanto E, Miller C, Smith DM, O'Connor RJ, Quah ACK, Cummings KM, Xu S, Fong GT, Hyland A, Ouimet J, Yoshimi I, Mochizuki Y, Tabuchi T, Goniewicz ML.	Int J Environ Res Public Health. 2019 Nov 21;16(23):4630. doi: 10.3390/ijerph16234630.	2019/11/27
Human Biomarker Exposure From Cigarettes Versus Novel Heat-Not-Burn Devices: A Systematic Review and Meta-Analysis	Drovandi A, Salem S, Barker D, Booth D, Kairuz T.	Nicotine Tob Res. 2020 Jun 12;22(7):1077-1085. doi: 10.1093/ntr/ntz200.	2019/10/24
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IQOS - a heat-not-burn (HnB) tobacco product - chemical composition and possible impact on oxidative stress and inflammatory response. A systematic review	Kopa PN, Pawliczak R.	Toxicol Mech Methods. 2020 Feb;30(2):81-87. doi: 10.1080/15376516.2019.1669245. Epub 2019 Oct 2.	2019/09/19
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PMI reduced-risk claims and upselling of IQOS via Reviti life insurance	Prochaska JJ, Henriksen L.	Tob Control. 2020 Dec;29(e1):e136-e137. doi: 10.1136/tobaccocontrol-2019-055145. Epub 2019 Jul 31.	2019/08/02

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Official Statement of the Spanish Society of Pulmonology and Thoracic Surgery (SEPAR) on Electronic Cigarettes and IQOS®	Signes-Costa J, de Granda-Orive JI, Ramos Pinedo A, Camarasa Escrig A, de Higes Martínez E, Rábade Castedo C, Cabrera César E, Jiménez-Ruiz CA.	Arch Bronconeumol (Engl Ed). 2019 Nov;55(11):581-586. doi: 10.1016/j.arbres.2019.04.023. Epub 2019 Jun 21.	2019/06/26
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