Reference List of all relevant peer-reviewed publications from the open literature that were submitted for the Renewal of Approval (AIR5) of Glyphosate in 2020

Toxicological and toxicokinetic data

The following table lists the relevant publications from the open literature that were selected for inclusion in the renewal dossier as per Article 8.5 of Regulation (EC) No 1107/2009.

A literature search for glyphosate and its metabolites[1] was conducted according to the requirements stated in the EFSA Guidance document EFSA Journal 2011;9(2):2092 "*Submission of scientific peer-reviewed open literature for the approval of pesticide active substances under Regulation (EC) 1107/2009"*. In addition, a recommendation by the Assessment Group on Glyphosate (AGG) on how to present the literature search in the dossier has been followed.

The objective of the literature search was to identify and assess scientific peer-reviewed open literature published within the 10 years prior to the dossier submission date for relevance in the risk assessment of glyphosate and its metabolites regarding toxicity, ecotoxicity, environmental and consumer risk as specified in Article 8.5 of Regulation (EC) No 1107/2009.

The publications were legally obtained by the Glyphosate Renewal Group from the public literature respecting in full all copyrights and are included in Document K.

[1] (aminomethyl)phosphonic acid (AMPA), N-acetyl-AMPA, N-acetyl-glyphosate, (hydroxymethyl)phosphonic acid (HMPA), N-methyl-AMPA, N-glyceryl-AMPA, N-malonyl-AMPA, methylphosphonic acid and N-methylglyphosate.

Section 3 - Toxicological and toxicokinetic data

Data requirement (indicated by the corresponding CA / CP data point number)	Author(s)	Year	Title	Source
KCA 5.1	Hopa E. et al.	2011	The inhibitory effects of some pesticides on human erythrocyte glucose-6-phosphate dehydrogenase activity (in vitro).	Fresenius Environmental Bulletin (2011), Vol. 20, No. 5a, pp. 1314
KCA 5.2.1	Lee GaWon et al.	2018	Glyphosate surfactant herbicide toxicosis in a dog with hindlimb paresis and urinary incontinence	Journal of Veterinary Clinics (2018), Vol. 35, No. 4, pp. 144
KCA 5.3	Gao H. et al.	2019	Activation of the N-methyl-d-aspartate receptor is involved in glyphosate-induced renal proximal tubule cell apoptosis.	Journal of applied toxicology (2019), Vol. 39, pp. 1096
KCA 5.3	Kumar S. et al.	2014	Glyphosate-rich air samples induce IL-33, TSLP and generate IL-13 dependent airway inflammation.	Toxicology (2014), Vol. 325, pp. 42
KCA 5.3	Mesnage R. et al.	2018	Comparison of transcriptome responses to glyphosate, isoxaflutole, quizalofop-p-ethyl and mesotrione in the HepaRG cell line.	Toxicology reports (2018), Vol. 5, pp. 819
KCA 5.3	Milic M. et al.	2018	Oxidative stress, cholinesterase activity, and DNA damage in the liver, whole blood, and plasma of Wistar rats following a 28-day exposure to glyphosate.	Arhiv za higijenu rada i toksikologiju (2018), Vol. 69, No. 2, pp. 154
KCA 5.3	Tang J. et al.	2017	Ion Imbalance Is Involved in the Mechanisms of Liver Oxidative Damage in Rats Exposed to Glyphosate.	Frontiers in physiology (2017), Vol. 8, pp. 1083
KCA 5.3	Jasper R. et al.	2012	Evaluation of biochemical, hematological and oxidative parameters in mice exposed to the herbicide glyphosate-Roundup(®).	Interdisciplinary toxicology (2012), Vol. 5, No. 3, pp. 133
KCA 5.3	Larsen K. et al.	2014	Effects of Sublethal Exposure to a Glyphosate-Based Herbicide Formulation on Metabolic Activities of Different Xenobiotic-Metabolizing Enzymes in Rats.	International journal of toxicology (2014), Vol. 33, No. 4, pp. 307
KCA 5.3	Lieshchova M. A. et al.	2018	Combined effect of glyphosphate, saccharin and sodium benzoate on rats.	Regulatory Mechanisms in Biosystems (2018), Vol. 9, No. 4, pp. 591
KCA 5.3	Rebai O. et al.	2017	Morus alba leaf extract mediates neuroprotection against glyphosate-induced toxicity and biochemical alterations in the brain.	Environmental science and pollution research international (2017), Vol. 24, No. 10, pp. 9605
KCA 5.3	Tizhe E. V. et al.	2014	Influence of zinc supplementation on histopathological changes in the stomach, liver, kidney, brain, pancreas and spleen during subchronic exposure of Wistar rats to glyphosate.	Comparative clinical pathology (2014), Vol. 23, No. 5, pp. 1535
KCA 5.3	Tizhe E. V. et al.	2013	Haematogical changes induced by subchronic glyphosate exposure: ameliorative effect of zinc in Wistar rats.	Sokoto Journal of Veterinary Sciences (2013), Vol. 11, No. 2, pp. 28
KCA 5.3	Aitbali Y. et al.	2018	Glyphosate based- herbicide exposure affects gut microbiota, anxiety and depression-like behaviors in mice.	Neurotoxicology and teratology (2018), Vol. 67, pp. 44

Data requirement (indicated by the corresponding CA / CP data point number)	Author(s)	Year	Title	Source
KCA 5.4	Adler-Flindt S. et al.	2019	Comparative cytotoxicity of plant protection products and their active ingredients.	Toxicology In Vitro, (2019) Vol. 54, pp. 354
KCA 5.4	da Silva Natara D. G. et al.	2019	Interference of goethite in the effects of glyphosate and Roundup® on ZFL cell line.	Toxicology in vitro (2020), Vol. 65, pp. 104755
KCA 5.4	de Almeida, L. K. S. et al.	2018	Moderate levels of glyphosate and its formulations vary in their cytotoxicity and genotoxicity in a whole blood model and in human cell lines with different estrogen receptor status.	3 Biotech (2018), Vol. 8, No. 10, pp. 438
KCA 5.4	Ilyushina N. A. et al.	2018	Comparative investigation of genotoxic activity of glyphosate technical products in the micronucleus test in vivo.	Toksikologicheskii Vestnik (2018), No. 4, pp. 24
KCA 5.4	Ilyushina N. A. et al.	2019	Maximum tolerated doses and erythropoiesis effects in the mouse bone marrow by 79 pesticides' technical materials assessed with the micronucleus assay.	Toxicology Reports (2019), Vol. 6, pp. 105
KCA 5.4	Kasuba V. et al.	2017	Effects of low doses of glyphosate on DNA damage, cell proliferation and oxidative stress in the HepG2 cell line.	Environmental science and pollution research international (2017), Vol. 24, No. 23, pp. 19267
KCA 5.4	Koller V. J. et al.	2012	Cytotoxic and DNA-damaging properties of glyphosate and Roundup in human-derived buccal epithelial cells.	Archives of toxicology (2012), Vol. 86, No. 5, pp. 805
KCA 5.4	Kwiatkowska M. et al.	2017	DNA damage and methylation induced by glyphosate in peripheral blood mononuclear cells (in vitro study)	Food and chemical toxicology (2017), Vol. 105, pp. 93
KCA 5.4	Manas F. et al.	2013	Oxidative stress and comet assay in tissues of mice administered glyphosate and ampa in drinking water for 14 days.	Journal of Basic and Applied Genetics (2013), Vol. 24, No. 2, pp. 67
KCA 5.4	Nagy K. et al.	2019	Comparative cyto- and genotoxicity assessment of glyphosate and glyphosate-based herbicides in human peripheral white blood cells.	Environmental research (2019), Vol. 179, No. Pt B, pp. 108851
KCA 5.4	Roustan A. et al.	2014	Genotoxicity of mixtures of glyphosate and atrazine and their environmental transformation products before and after photoactivation.	Chemosphere (2014), Vol. 108, pp. 93
KCA 5.4	Santovito A. et al.	2018	In vitro evaluation of genomic damage induced by glyphosate on human lymphocytes.	Environmental science and pollution research international (2018), Vol. 25, No. 34, pp. 34693
KCA 5.4	Suarez-Larios K. et al.	2017	Screening of Pesticides with the Potential of Inducing DSB and Successive Recombinational Repair.	Journal of Toxicology (2017), Article ID 3574840
KCA 5.4	Townsend M. et al.	2017	Evaluation of various glyphosate concentrations on DNA damage in human Raji cells and its impact on cytotoxicity.	Regulatory toxicology and pharmacology (2017), Vol. 85, pp. 79
KCA 5.4	Alvarez-Moya C. et al.	2014	Comparison of the in vivo and in vitro genotoxicity of glyphosate isopropylamine salt in three different organisms.	Genetics and molecular biology (2014),Vol. 37, No. 1, pp. 105

Data requirement (indicated by the corresponding CA / CP data point number)	Author(s)	Year	Title	Source
KCA 5.4	Brusick D. et al.	2016	Genotoxicity Expert Panel review: weight of evidence evaluation of the genotoxicity of glyphosate, glyphosate-based formulations, and aminomethylphosphonic acid.	Critical reviews in toxicology (2016), Vol. 46, No. sup1, pp. 56
KCA 5.4	Carbajal-Lopez Y. et al.	2016	Biomonitoring of agricultural workers exposed to pesticide mixtures in Guerrero state, Mexico, with comet assay and micronucleus test	Environmental Science and Pollution Research (2016), Vol. 23, No. 3, pp. 2513
KCA 5.4	de Castilhos Ghisi N. et al.	2016	Does exposure to glyphosate lead to an increase in the micronuclei frequency? A systematic and meta-analytic review.	Chemosphere (2016), Vol. 145, pp. 42
KCA 5.4	Kier L. D.	2015	Review of genotoxicity biomonitoring studies of glyphosate-based formulations.	Critical reviews in toxicology (2015), Vol. 45, No. 3, pp. 209
KCA 5.4	Kier L. D. et al.	2013	Review of genotoxicity studies of glyphosate and glyphosate-based formulations.	Critical reviews in toxicology (2013), Vol. 43, No. 4, pp. 283
KCA 5.4	Lopez Gonzalez E. C. et al.	2017	Micronuclei and other nuclear abnormalities on Caiman latirostris (Broad-snouted caiman) hatchlings after embryonic exposure to different pesticide formulations.	Ecotoxicology and environmental safety (2017), Vol. 136, pp. 84
KCA 5.4	Rodrigues H. G. et al.	2011	Effects of roundup pesticide on the stability of human erythrocyte membranes and micronuclei frequency in bone marrow cells of Swiss mice	Open Biology Journal (2011), Vol. 4, pp. 54
KCA 5.4	Vera-Candioti J. et al.	2013	Single-cell gel electrophoresis assay in the ten spotted live-bearer fish, Cnesterodon decemmaculatus (Jenyns, 1842), as bioassay for agrochemical-induced genotoxicity.	Ecotoxicology and environmental safety (2013), Vol. 98, pp. 368
KCA 5.5	Andreotti G. et al.	2018	Glyphosate Use and Cancer Incidence in the Agricultural Health Study	Journal of the national cancer institute (2018) Vol. 110, No. 5, pp. 509
KCA 5.5	Biserni M. et al.	2019	Quizalofop-p-Ethyl Induces Adipogenesis in 3T3-L1 Adipocytes.	Toxicological sciences (2019), Vol. 1, No. 170, pp. 452
KCA 5.5	Crump K.	2020	The Potential Effects of Recall Bias and Selection Bias on the Epidemiological Evidence for the Carcinogenicity of Glyphosate.	Risk analysis (2020), Vol. 40, pp. 696
KCA 5.5	Duforestel M. et al.	2019	Glyphosate Primes Mammary Cells for Tumorigenesis by Reprogramming the Epigenome in a TET3-Dependent Manner.	Frontiers in genetics (2019), Vol. 10, pp. 885
KCA 5.5	Pahwa M. et al.	2019	Glyphosate use and associations with non-Hodgkin lymphoma major histological sub-types: findings from the North American Pooled Project.	Scandinavian journal of work, environment & health (2019), Vol. 1; No. 45, pp. 600
KCA 5.5	Presutti R. et al.	2016	Pesticide exposures and the risk of multiple myeloma in men: An analysis of the North American Pooled Project.	International Journal of Cancer (2016), Vol. 139, No. 8, pp. 1703

Data requirement (indicated by the corresponding CA / CP data point number)	Author(s)	Year	Title	Source
KCA 5.5	Sorahan T.	2015	Multiple myeloma and glyphosate use: a re-analysis of US Agricultural Health Study (AHS) data.	International journal of environmental research and public health, (2015) Vol. 12, No. 2, pp. 1548
KCA 5.5	Wang L. et al.	2019	Glyphosate induces benign monoclonal gammopathy and promotes multiple myeloma progression in mice.	Journal of hematology & oncology, (2019), Vol. 12, No. 1, pp. 70
KCA 5.5	Wozniak E. et al.	2019	Glyphosate affects methylation in the promoter regions of selected tumor suppressors as well as expression of major cell cycle and apoptosis drivers in PBMCs (in vitro study).	Toxicology in vitro (2019), Vol. 63, pp. 104736
KCA 5.5	Acquavella J. et al.	2018	Corrigendum to: Glyphosate epidemiology expert panel review: a weight of evidence systematic review of the relationship between glyphosate exposure and non-Hodgkin's lymphoma or multiple myeloma.	Critical Reviews in Toxicology (2018), Vol. 48, No. 10, pp. 898
KCA 5.5	Anon.	2018	Expression of Concern (26 September 2018): An Independent Review of the Carcinogenic Potential of Glyphosate.	Critical Reviews in Toxicology (2018), Vol. 48, No. 10, pp. 981
KCA 5.5	Arjo G. et al.	2013	Plurality of opinion, scientific discourse and pseudoscience: an in depth analysis of the Seralini et al. study claiming that Roundup® Ready corn or the herbicide Roundup® cause cancer in rats.	Transgenic research (2013), Vol. 22, No. 2, pp. 255
KCA 5.5	Bashir S. et al.	2012	Final review of the Seralini et al. (2012a) publication on a 2-year rodent feeding study with glyphosate formulations and GM maize NK603 as published online on 19 September 2012 in Food and Chemical Toxicology	EFSA Journal (2012), Vol. 10, No. 11, pp. 2986
KCA 5.5	Bashir S. et al.	2012	Review of the Seralini et al. (2012) publication on a 2-year rodent feeding study with glyphosate formulations and GM maize NK603 as published online on 19 September 2012 in Food and Chemical Toxicology	EFSA Journal (2012), Vol. 10, No. 10, pp. 2910
KCA 5.5	Berry C.	2018	The complexities of regulatory toxicology	Outlooks on Pest Management (2018), Vol. 29, No. 6, pp. 270
KCA 5.5	Berry C.	2013	Comments on "Long term toxicity of a Roundup herbicide and a Roundup-tolerant genetically modified maize".	Food and Chemical Toxicology (2013), Vol. 53, pp. 430
KCA 5.5	Brusick D. et al.	2018	Corrigendum to: Genotoxicity Expert Panel review: weight of evidence evaluation of the genotoxicity of glyphosate, glyphosate-based formulations, and aminomethylphosphonic acid.	Critical Reviews in Toxicology (2018), Vol. 46, No. 10, pp 902

Data requirement (indicated by the corresponding CA / CP data point number)	Author(s)	Year	Title	Source
KCA 5.5	Burstyn I. et al.	2017	Visualizing the heterogeneity of effects in the analysis of associations of multiple myeloma with glyphosate use. comments on sorahan, t. multiple myeloma and glyphosate use: A re-analysis of us agricultural health study (AHS) data.	International Journal of Environmental Research and Public Health (2017), Vol. 14, No. 1, pp. 1
KCA 5.5	Bus J. S.	2017	IARC use of oxidative stress as key mode of action characteristic for facilitating cancer classification: Glyphosate case example illustrating a lack of robustness in interpretative implementation.	Regulatory toxicology and pharmacology (2017), Vol. 86, pp. 157
KCA 5.5	Dung Le Tien et al.	2013	Comments on "Long term toxicity of a Roundup herbicide and a Roundup-tolerant genetically modified maize".	Food and Chemical Toxicology (2013), Vol. 53, pp. 428
KCA 5.5	Greim H. et al.	2015	Evaluation of carcinogenic potential of the herbicide glyphosate, drawing on tumor incidence data from fourteen chronic/carcinogenicity rodent studies.	Critical reviews in toxicology (2015), Vol. 45, No. 3, pp. 185
KCA 5.5	Grunewald W. et al.	2013	Comment on "Long term toxicity of a Roundup herbicide and a Roundup-tolerant genetically modified maize".	Food and Chemical Toxicology (2013), Vol. 53, pp. 447
KCA 5.5	Hammond B. et al.	2013	A Comment on "Long term toxicity of a Roundup herbicide and a Roundup-tolerant genetically modified maize".	Food and Chemical Toxicology (2013), Vol. 53, pp. 444
KCA 5.5	Heinemann J. A.	2013	Food and chemical toxicology.	Food and Chemical Toxicology (2013), Vol. 53, pp. 442
KCA 5.5	Kachuri L. et al.	2013	Multiple pesticide exposures and the risk of multiple myeloma	International Journal of Cancer (2013), Vol. 133, No. 8, pp. 1846
KCA 5.5	Le Tien D. et al.	2013	Comments on "Long term toxicity of a Roundup herbicide and a Roundup-tolerant genetically modified maize"	Food and Chemical Toxicology (2013), Vol. 53, pp. 443
KCA 5.5	McClellan R. O.	2016	Evaluating the potential carcinogenic hazard of glyphosate.	Critical reviews in toxicology (2016), Vol. 46, No. sup1, pp. 1
KCA 5.5	Mesnage R. et al.	2017	Multiomics reveal non-alcoholic fatty liver disease in rats following chronic exposure to an ultra-low dose of Roundup herbicide.	Scientific reports (2017), Vol. 7, pp. 39328
KCA 5.5	Nedopitanska N. M.	2011	Problem of the carcinogenic danger of glyphosate; new data	Sovremennye Problemy Toksikologii (2011) No. 1-2, pp. 5
KCA 5.5	Ollivier L.	2013	A Comment on "Long term toxicity of a Roundup herbicide and a Roundup-tolerant genetically modified maize".	Food and Chemical Toxicology (2013), Vol. 53, pp. 458
KCA 5.5	Portier C. J. et al.	2017	Re: Tarazona et al. (2017): Glyphosate toxicity and carcinogenicity: a review of the scientific basis of the European Union assessment and its differences with IARC.	Archives of toxicology (2017), Vol. 91, No. 9, pp. 3195

Data requirement (indicated by the corresponding CA / CP data point number)	Author(s)	Year	Title	Source
KCA 5.5	Resnik D. B.	2015	Retracting Inconclusive Research: Lessons from the Seralini GM Maize Feeding Study	Journal of agricultural & environmental ethics (2015), Vol. 28, No. 4, pp. 621
KCA 5.5	Schinasi L. et al.	2014	Non-Hodgkin lymphoma and occupational exposure to agricultural pesticide chemical groups and active ingredients: a systematic review and meta-analysis.	International journal of environmental research and public health (2014), Vol. 11, No. 4, pp. 4449
KCA 5.5	Seralini G-E. et al.	2013	Answers to critics: Why there is a long term toxicity due to a Roundup-tolerant genetically modified maize and to a Roundup herbicide	Food and Chemical Toxicology (2013), Vol. 53, pp. 476
KCA 5.5	Solomon K. R.	2017	What is the problem with glyphosate?	Outlooks on Pest Management (2017), Vol. 28, No. 4, pp. 173
KCA 5.5	Solomon K.R.	2018	Corrigendum to: Glyphosate in the general population and in applicators: a critical review of studies on exposures.	Critical Reviews in Toxicology (2018), Vol 48, No 10, pp. 896
KCA 5.5	Sorahan T.	2016	Visualising and thinking and interpreting. Response to the Burstyn and de Ros comments on Sorahan "Multiple myeloma and glyphosate use: A re-analysis of us agricultural health study (AHS) data".	International Journal of Environmental Research and Public Health (2016), Vol. 14, No. 1, pp. E6
KCA 5.5	Stipicevic S.	2017	Some organophosphate insecticides and herbicides	Arhiv Za Higijenu Rada i Toksikologiju (2017), Vol. 68, No. 2, pp. A10
KCA 5.5	Tarazona J. V. et al.	2017	Glyphosate toxicity and carcinogenicity: a review of the scientific basis of the European Union assessment and its differences with IARC.	Archives of toxicology (2017), Vol. 91, No. 8, pp. 2723
KCA 5.5	Tarazona J. V. et al.	2017	Response to the reply by C. J. Portier and P. Clausing, concerning our review "Glyphosate toxicity and carcinogenicity: a review of the scientific basis of the European Union assessment and its differences with IARC".	Archives of toxicology (2017), Vol. 91, No. 9, pp. 3199
KCA 5.5	Tarone R. E.	2018	On the International Agency for Research on Cancer classification of glyphosate as a probable human carcinogen	European journal of cancer prevention (2018), Vol. 27, No. 1, pp. 82
KCA 5.5	Tribe D.	2013	Serious inadequacies regarding the pathology data presented in the paper by Seralini et al. (2012).	Food and Chemical Toxicology (2013), Vol. 53, pp. 452
KCA 5.5	Williams G. M.	2018	Corrigendum to: Glyphosate rodent carcinogenicity bioassay expert panel review (Critical Reviews in Toxicology, (2016), 46, sup1, (44-55), 10.1080/10408444.2016.1214679)	Critical Reviews in Toxicology (2018), Vol. 48, No. 10, pp. 914
KCA 5.5	Williams G. M. et al.	2016	Glyphosate rodent carcinogenicity bioassay expert panel review.	Critical reviews in toxicology (2016), Vol. 46, No. sup1, pp. 44

Data requirement (indicated by the corresponding CA / CP data point number)	Author(s)	Year	Title	Source
KCA 5.5	Williams G. M. et al.	2018	Corrigendum: A review of the carcinogenic potential of glyphosate by four independent expert panels and comparison to the IARC assessment.	Critical Reviews in Toxicology (2018), Vol. 48, No. 10, pp. 907
KCA 5.6	Dai P. et al.	2016	Effect of glyphosate on reproductive organs in male rat.	Acta histochemica (2016) Vol. 118, No. 5, pp. 51
KCA 5.6	Forgacs A. L. et al.	2012	BLTK1 murine Leydig cells: a novel steroidogenic model for evaluating the effects of reproductive and developmental toxicants.	Toxicological sciences (2012), Vol. 127, No. 2, pp. 391
KCA 5.6	Gorga A. et al.	2020	In vitro effects of glyphosate and Roundup on Sertoli cell physiology.	Toxicology in vitro (2020), Vol. 62, pp. 104682
KCA 5.6	Johansson H. et al.	2018	Exposure to a glyphosate-based herbicide formulation, but not glyphosate alone, has only minor effects on adult rat testis.	Reproductive toxicology (2018), Vol. 82, pp. 25
KCA 5.6	Manservisi F. et al.	2019	The Ramazzini Institute 13-week pilot study glyphosate-based herbicides administered at human-equivalent dose to Sprague Dawley rats: effects on development and endocrine system.	Environmental health (2019), Vol. 18, No. 1, pp. 15
KCA 5.6	Panzacchi S. et al.	2018	The Ramazzini Institute 13-week study on glyphosate-based herbicides at humanequivalent dose in Sprague Dawley rats: study design and first in-life endpoints evaluation	Environmental Health (2018), Vol. 17, pp. 52/1
KCA 5.6	Perego M. C. et al.	2017	Evidence for direct effects of glyphosate on ovarian function: glyphosate influences steroidogenesis and proliferation of bovine granulosa but not theca cells in vitro.	Journal of applied toxicology (2017), Vol. 37, No. 6, pp. 692
KCA 5.6	Pham Thu H. et al.	2019	Perinatal Exposure to Glyphosate and a Glyphosate-Based Herbicide Affect Spermatogenesis in Mice.	Toxicological sciences (2019), Vol. 169, No. 1, pp. 260
KCA 5.6	Ren Xin et al.	2019	Effects of chronic glyphosate exposure to pregnant mice on hepatic lipid metabolism in offspring.	Environmental pollution (2019), Vol. 254, No. Pt A, pp. 112906
KCA 5.6	Zhang J. et al.	2019	The toxic effects and possible mechanisms of glyphosate on mouse oocytes.	Chemosphere (2019), Vol. 237, pp. 124435
KCA 5.6	Abou-Amer W. L. et al.	2010	Teratological effects induced by three pesticides in pregnant rats	Alexandria Journal of Pharmaceutical Sciences (2010), Vol. 24, No. 1, pp. 21
KCA 5.6	Belle R. et al.	2012	Letter to the Editor: Toxicity of Roundup and glyphosate.	Journal of Toxicology and Environmental Health Part B Critical Reviews (2012), Vol. 15, No. 4, pp. 233
KCA 5.6	Cai W. et al.	2017	Effects of glyphosate exposure on sperm concentration in rodents: A systematic review and meta-analysis.	Environmental toxicology and pharmacology (2017), Vol. 55, pp. 148
KCA 5.6	de Almeida L. L. et al.	2017	Effects of melatonin in rats in the initial third stage of pregnancy exposed to sub-lethal doses of herbicides.	Acta histochemica (2017), Vol. 119, No. 3, pp. 220

Data requirement (indicated by the corresponding CA / CP data point number)	Author(s)	Year	Title	Source
KCA 5.6	Defarge N. et al.	2012	Letter to the Editor: Developmental and reproductive outcomes of Roundup and Glyphosate in humans and animals.	Journal of Toxicology and Environmental Health Part B Critical Reviews (2012), Vol. 15, No. 7, pp. 433
KCA 5.6	DeSesso J. M. et al.	2012	Letter to the Editor: Toxicity of Roundup and Glyphosate response.	Journal of Toxicology and Environmental Health Part B Critical Reviews (2012), Vol. 15, No. 4, pp. 236
KCA 5.6	DeSesso J. M. et al.	2012	Comment on "Glyphosate impairs male offspring reproductive development by disrupting gonadotropin expression".	Archives of Toxicology (2012), Vol. 86, No. 11, pp. 1791
KCA 5.6	DeSesso J. M. et al.	2012	Response to the comments of Defarge and colleagues.	Journal of Toxicology and Environmental Health Part B Critical Reviews (2012), Vol. 15, No. 7, pp. 438
KCA 5.6	Manfo F. P. T. et al.	2012	Effect of agropesticides use on male reproductive function: A study on farmers in Djutitsa (Cameroon)	Environmental Toxicology (2012), Vol. 27, No. 7, pp. 423
KCA 5.6	Owagboriaye F. O. et al.	2017	Reproductive toxicity of Roundup herbicide exposure in male albino rat.	Experimental and toxicologic pathology (2017), Vol. 69, No. 7, pp. 461
KCA 5.6	Sakpa C. L. et al.	2018	Effects of glyphosate on sperm parameters and pregnancy success rate in Wistar rats.	Annals of Biomedical Sciences (2018), Vol. 17, No. 2, pp. 156
KCA 5.6	Williams A. L. et al.	2012	Developmental and reproductive outcomes in humans and animals after glyphosate exposure: a critical analysis.	Journal of toxicology and environmental health. Part B, Critical reviews (2012), Vol. 15, No. 1, pp. 39
KCA 5.6.1	Milesi M. M. et al.	2018	Perinatal exposure to a glyphosate-based herbicide impairs female reproductive outcomes and induces second-generation adverse effects in Wistar rats.	Archives of toxicology (2018), Vol. 92, No. 8, pp. 2629
KCA 5.6.1	Milesi M. M. et al.	2019	Response to comments on: Perinatal exposure to a glyphosate-based herbicide impairs female reproductive outcomes and induces second-generation adverse effects in Wistar rats.	Archives of toxicology (2019), Vol. 93, No. 12, pp. 3635
KCA 5.6.1	Plewis I.	2019	Comment on: Perinatal exposure to a glyphosate-based herbicide impairs female reproductive outcomes and induces second-generation adverse effects in Wistar rats.	Archives of toxicology (2019), Vol. 93, No. 1, pp. 207
KCA 5.6.1	Plewis I.	2020	Comment on response from Milesi et al. to 'Perinatal exposure to a glyphosate-based herbicide impairs female reproductive outcomes and induces second-generation adverse effects in Wistar rats'.	Archives of toxicology (2020), Vol. 94, pp. 351
KCA 5.6.1	Velastegui-Espin G. P. et al.	2018	Glyphosate: its use and implications for human health. El glifosato: su uso e implicaciones en la salud humana.	Journal of the Selva Andina Biosphere (2018), Vol. 6, No. 2, pp. 86

Data requirement (indicated by the corresponding CA / CP data point number)	Author(s)	Year	Title	Source
KCA 5.6.2	Kimmel G. L. et al.	2013	Evaluation of developmental toxicity studies of glyphosate with attention to cardiovascular development.	Critical reviews in toxicology (2013), Vol. 43, No. 2, pp. 79
KCA 5.7	Chorfa A. et al.	2013	Specific pesticide-dependent increases in α-synuclein levels in human neuroblastoma (SH-SY5Y) and melanoma (SK-MEL-2) cell lines.	Toxicological sciences (2013), Vol. 133, No. 2, pp. 289
KCA 5.7	Martinez A. et al.	2019	Effects of glyphosate and aminomethylphosphonic acid on an isogeneic model of the human blood-brain barrier.	Toxicology letters (2019), Vol. 304, pp. 39
KCA 5.7	Martinez M. A. et al.	2018	Neurotransmitter changes in rat brain regions following glyphosate exposure.	Environmental research (2018), Vol. 161, pp. 212
KCA 5.7	Feldman V.	2014	Neurodevelopmental toxicity: Still more questions than answers.	The Lancet Neurology (2014), Vol. 13, No. 7, pp. 645
KCA 5.7	Goldstein D. A. et al.	2014	Neurodevelopmental toxicity: Still more questions than answers.	The Lancet Neurology (2014), Vol. 13, No. 7, pp. 645
KCA 5.7	Grandjean P. et al.	2014	Neurodevelopmental toxicity: Still more questions than answers - Authors' response.	The Lancet Neurology (2014), Vol. 13, No. 7, pp. 648
KCA 5.8	Mesnage R. et al.	2018	Ignoring Adjuvant Toxicity Falsifies the Safety Profile of Commercial Pesticides.	Frontiers in Public Health (2018), Vol. 5, pp. 361
KCA 5.8	Vanlaeys A. et al.	2018	Formulants of glyphosate-based herbicides have more deleterious impact than glyphosate on TM4 Sertoli cells.	Toxicology in vitro (2018), Vol. 52, pp. 14.
KCA 5.8	Ait Bali Y. et al.	2017	Behavioral and Immunohistochemical Study of the Effects of Subchronic and Chronic Exposure to Glyphosate in Mice.	Frontiers in behavioral neuroscience (2017), Vol. 11, pp. 146
KCA 5.8	Baier C. J. et al.	2017	Behavioral impairments following repeated intranasal glyphosate-based herbicide administration in mice.	Neurotoxicology and teratology (2017), Vol. 64, pp. 63
KCA 5.8	Caloni F. et al.	2016	Suspected poisoning of domestic animals by pesticides.	The Science of the total environment (2016), Vol. 539, pp. 331
KCA 5.8	de Avila R. I. et al.	2017	In vitro assessment of skin sensitization, photosensitization and phototoxicity potential of commercial glyphosate-containing formulations.	Toxicology in vitro (2017), Vol. 45, No. 3, pp. 386
KCA 5.8	Defarge N. et al.	2016	Co-Formulants in Glyphosate-Based Herbicides Disrupt Aromatase Activity in Human Cells below Toxic Levels.	International journal of environmental research and public health (2016), Vol. 13, No. 3, pp. 264
KCA 5.8	Farkas E. et al.	2018	Label-free optical biosensor for real-time monitoring the cytotoxicity of xenobiotics: A proof of principle study on glyphosate.	Journal of hazardous materials (2018), Vol. 351, pp. 80
KCA 5.8	Gress S. et al.	2015	Glyphosate-based herbicides potently affect cardiovascular system in mammals: review of the literature.	Cardiovascular toxicology (2015), Vol. 15, No. 2, pp. 117

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KCA 5.8	Gui Y-X. et al.	2012	Glyphosate induced cell death through apoptotic and autophagic mechanisms.	Neurotoxicology and teratology (2012), Vol. 34, No. 3, pp. 344
KCA 5.8	Kim Y-h.. et al.	2013	Mixtures of glyphosate and surfactant TN20 accelerate cell death via mitochondrial damage-induced apoptosis and necrosis.	Toxicology in vitro : an international journal published in association with BIBRA (2013), Vol. 27, No. 1, pp. 191
KCA 5.8	Kurenbach B. et al.	2015	Sublethal exposure to commercial formulations of the herbicides dicamba, 2,4-dichlorophenoxyacetic acid, and glyphosate cause changes in antibiotic susceptibility in Escherichia coli and Salmonella enterica serovar Typhimurium.	mBio (2015), Vol. 6, No. 2, pp. E00009
KCA 5.8	Kwiatkowska M. et al.	2014	The effect of glyphosate, its metabolites and impurities on erythrocyte acetylcholinesterase activity.	Environmental toxicology and pharmacology (2014), Vol. 37, No. 3, pp. 1101
KCA 5.8	Mesnage R. et al.	2013	Ethoxylated adjuvants of glyphosate-based herbicides are active principles of human cell toxicity.	Toxicology (2013), Vol. 313, No. 2-3, pp. 122
KCA 5.8	Mesnage R. et al.	2017	Facts and Fallacies in the Debate on Glyphosate Toxicity.	Frontiers in public health (2017), Vol. 5, pp. 316
KCA 5.8	Mesnage R. et al.	2014	Major pesticides are more toxic to human cells than their declared active principles.	BioMed research international (2014), Vol. 2014, pp. 179691
KCA 5.8	Saltmiras D. A. et al.	2015	Glyphosate: The Fate and Toxicology of a Herbicidal Amino Acid Derivative.	Amino Acids in Higher Plants (2015), pp. 461
KCA 5.8	Song H-Y. et al.	2012	In vitro cytotoxic effect of glyphosate mixture containing surfactants.	Journal of Korean medical science (2012), Vol. 27, No. 7, pp. 711
KCA 5.8	Bote K. et al.	2019	Minimum Inhibitory Concentration of Glyphosate and of a Glyphosate-Containing Herbicide Formulation for Escherichia coli Isolates - Differences Between Pathogenicand Non-pathogenic Isolates and Between Host Species.	Frontiers in microbiology (2019), Vol. 10, pp. 932
KCA 5.8, KCA 6.4	Kruger M. et al.	2013	Glyphosate suppresses the antagonistic effect of Enterococcus spp. on Clostridium botulinum.	Anaerobe (2013), Vol. 20, pp. 74
KCA 5.8.1	Hao Y. et al.	2019	Roundup-Induced AMPK/mTOR-Mediated Autophagy in Human A549 Cells.	Journal of agricultural and food chemistry (2019), Vol. 67, No. 41, pp. 11364
KCA 5.8.1	Kwiatkowska M. et al.	2020	Evaluation of apoptotic potential of glyphosate metabolites and impurities in human peripheral blood mononuclear cells (in vitro study).	Food and chemical toxicology (2020) Vol. 135, pp. 110888
KCA 5.8.2	Forsythe S. D. et al.	2018	Environmental Toxin Screening Using Human-Derived 3D Bioengineered Liver and Cardiac Organoids.	Frontiers in public health (2018), Vol. 6, pp. 103

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KCA 5.8.2	Alleva R. et al.	2018	Mechanism underlying the effect of long-term exposure to low dose of pesticides on DNA integrity.	Environmental Toxicology (2018), Vol. 33, No. 4, pp. 476
KCA 5.8.2	Andreotti G. et al.	2012	The interaction between pesticide use and genetic variants involved in lipid metabolism on prostate cancer risk	Journal of Cancer Epidemiology (2012), Article ID 358076, pp 1
KCA 5.8.2	Anifandis G. et al.	2018	The effect of glyphosate on human sperm motility and sperm DNA fragmentation	International Journal of Environmental Research and Public Health (2018), Vol. 15, No. 6, pp. 1117/1
KCA 5.8.2	Dechartres J. et al.	2019	Glyphosate and glyphosate-based herbicide exposure during the peripartum period affects maternal brain plasticity, maternal behaviour and microbiome	Journal of Neuroendocrinology (2019), Vol. 31, pp. e12731
KCA 5.8.2	Dedeke G. A. et al.	2018	Comparative Assessment on Mechanism Underlying Renal Toxicity of Commercial Formulation of Roundup Herbicide and Glyphosate Alone in Male Albino Rat.	International Journal of Toxicology (2018), Vol. 37, No. 4, pp. 285
KCA 5.8.2	Gencer N. et al.	2012	In vitro effects of some herbicides and fungicides on human erythrocyte carbonic anhydrase activity	Fresenius Environmental Bulletin (2012), Vol. 21, No. 3, pp. 549
KCA 5.8.2	Honskii Y. I. et al.	2011	Effects of heavy metal salts and organophosphoric pesticides on protein metabolism in exposed white rats	Medichna Khimiya (2011), Vol. 13, No. 4, pp. 100
KCA 5.8.2	Larsen K. et al.	2012	Effects of sub-lethal exposure of rats to the herbicide glyphosate in drinking water: glutathione transferase enzyme activities, levels of reduced glutathione and lipid peroxidation in liver, kidneys and small intestine.	Environmental toxicology and pharmacology (2012), Vol. 34, No. 3, pp. 811
KCA 5.8.2	Lemma T. et al.	2019	Disruption of giant unilamellar vesicles mimicking cell membranes induced by the pesticides glyphosate and picloram	Biophysical chemistry (2019), Vol. 250, pp. 106176
KCA 5.8.2	Mesnage R. et al.	2015	Potential toxic effects of glyphosate and its commercial formulations below regulatory limits.	Food and chemical toxicology (2015), Vol. 84, pp. 133
KCA 5.8.2	Owagboriaye F. et al.	2019	Comparative studies on endogenic stress hormones, antioxidant, biochemical and hematological status of metabolic disturbance in albino rat exposed to roundup herbicide and its active ingredient glyphosate.	Environmental science and pollution research international (2019), Vol. 26, No. 14, pp. 14502
KCA 5.8.2	Razi M. et al.	2012	Histological and histochemical effects of Gly-phosate on testicular tissue and function.	Iranian Journal of Reproductive Medicine (2012), Vol. 10, No. 3, pp. 181
KCA 5.8.2	Ren X. et al.	2018	Effects of glyphosate on the ovarian function of pregnant mice, the secretion of hormones and the sex ratio of their fetuses.	Environmental pollution (2018), Vol. 243, No. Pt B, pp. 833

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KCA 5.8.2	Wrobel M. H.	2018	Glyphosate affects the secretion of regulators of uterine contractions in cows while it does not directly impair the motoric function of myometrium in vitro.	Toxicology and applied pharmacology (2018), Vol. 349, pp. 55
KCA 5.8.2	Zhao W. et al.	2011	Effect of glyphosate on oxidative damage of mice	Dulixue Zazhi (2011), Vol. 25, No. 5, pp. 364
KCA 5.8.2	Good P.	2018	Evidence the U.S. autism epidemic initiated by acetaminophen (Tylenol) is aggravated by oral antibiotic amoxicillin/clavulanate (Augmentin) and now exponentially by herbicide glyphosate (Roundup).	Clinical nutrition ESPEN (2018), Vol. 23, pp. 171
KCA 5.8.2	Lozano V. L. et al.	2018	Sex-dependent impact of Roundup on the rat gut microbiome.	Toxicology reports (2018), Vol. 5, pp. 96
KCA 5.8.2	Mao Q. et al.	2018	The Ramazzini Institute 13-week pilot study on glyphosate and Roundup administered at human-equivalent dose to Sprague Dawley rats: effects on the microbiome.	Environmental Health (2018), Vol. 29, No. 17, pp 50
KCA 5.8.3	Gigante P. et al.	2018	Glyphosate affects swine ovarian and adipose stromal cell functions.	Animal reproduction science (2018), Vol. 195, pp. 185
KCA 5.8.3	Mesnage R. et al.	2017	Evaluation of estrogen receptor alpha activation by glyphosate-based herbicide constituents.	Food and chemical toxicology (2017) Vol. 108, No. Pt A, pp. 30

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KCA 5.8.3	Thongprakaisang S. et al.	2013	Glyphosate induces human breast cancer cells growth via estrogen receptors.	Food and chemical toxicology (2013), Vol. 59, pp. 129
KCA 5.8.3	Brennan J. C. et al.	2016	Development of a recombinant human ovarian (BG1) cell line containing estrogen receptor α and β for improved detection of estrogenic/antiestrogenic chemicals	Environmental Toxicology and Chemistry (2016), Vol. 35, No. 1, pp. 91
KCA 5.8.3	Drasar P. et al.	2018	Glyphosate, an important endocrine disruptor Glyfosat - Dulezity endokrinni disruptor.	Diabetologie Metabolismus Endokrinologie Vyziva (2018), Vol. 21, No. 2, pp. 93
KCA 5.8.3	Haggard D. E. et al.	2018	Erratum to High-Throughput H295R Steroidogenesis Assay: Utility as an Alternative and a Statistical Approach to Characterize Effects on Steroidogenesis.	Toxicological Sciences (2018), Vol. 164, No. 2, pp. 646
KCA 5.8.3	Haggard D. E. et al.	2018	High-throughput H295R steroidogenesis assay: utility as an alternative and a statistical approach to characterize effects on steroidogenesis	Toxicological Sciences (2018), Vol. 162, No. 2, pp. 509
KCA 5.8.3	Palma G.	2011	Letter to the editor regarding the article by Paganelli et al.	Chemical research in toxicology (2011), Vol. 24, No. 6, pp. 775
KCA 5.8.3	Pandey A. et al.	2015	Analysis of endocrine disruption effect of Roundup(®) in adrenal gland of male rats.	Toxicology reports (2015), Vol. 2, pp. 1075
KCA 5.8.3	Pinto C. L. et al.	2018	Identification of candidate reference chemicals for in vitro steroidogenesis assays	Toxicology In Vitro (2018), Vol. 47, pp. 103
KCA 5.8.3	Sritana N. et al.	2018	Glyphosate induces growth of estrogen receptor alpha positive cholangiocarcinoma cells via non-genomic estrogen receptor/ERK1/2 signaling pathway.	Food and chemical toxicology (2018), Vol. 118, pp. 595

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KCA 5.8.3	Zhao H. et al.	2018	Effects of Glyphosate on Testosterone Synthesis in Male Rats.	Asian Journal of Ecotoxicology (2018), Vol. 13, No. 5, pp. 242
KCA 5.9	Connolly A. et al.	2018	Characterising glyphosate exposures among amenity horticulturists using multiple spot urine samples.	International journal of hygiene and environmental health (2018), Vol. 221, No. 7, pp. 1012
KCA 5.9	Connolly A. et al.	2019	Exploring the half-life of glyphosate in human urine samples.	International journal of hygiene and environmental health (2019), Vol. 222, No. 2, pp. 205
KCA 5.9	Connolly A. et al.	2017	Exposure assessment using human biomonitoring for glyphosate and fluroxypyr users in amenity horticulture.	International journal of hygiene and environmental health (2017), Vol. 220, No. 6, pp. 1064
KCA 5.9	Connolly A. et al.	2018	Glyphosate in Irish adults - A pilot study in 2017.	Environmental research (2018), Vol. 165, pp. 235
KCA 5.9	Connolly A. et al.	2019	Evaluating Glyphosate Exposure Routes and Their Contribution to Total Body Burden: A Study Among Amenity Horticulturalists.	Annals of work exposures and health (2019), Vol. 63, No. 2, pp. 133
KCA 5.9	Conrad A. et al.	2017	Glyphosate in German adults - Time trend (2001 to 2015) of human exposure to a widely used herbicide	International journal of hygiene and environmental health (2017), Vol. 220, No. 1, pp. 8
KCA 5.9	Kongtip P. et al.	2017	Glyphosate and Paraquat in Maternal and Fetal Serums in Thai Women.	Journal of agromedicine (2017), Vol. 22, No. 3, pp. 282
KCA 5.9	McGuire M. K. et al.	2016	Glyphosate and aminomethylphosphonic acid are not detectable in human milk.	The American journal of clinical nutrition (2016), Vol. 103, No. 5, pp. 1285
KCA 5.9	Sierra-Diaz E. et al.	2019	Urinary pesticide levels in children and adolescents residing in two agricultural communities in Mexico	International Journal of Environmental Research and Public Health (2019), Vol. 16, No. 4, pp. 562
KCA 5.9	Steinborn A. et al.	2016	Determination of Glyphosate Levels in Breast Milk Samples from Germany by LC-MS/MS and GC-MS/MS.	Journal of agricultural and food chemistry (2016), Vol. 64, No. 6, pp. 1414
KCA 5.9	Trasande L. et al.	2020	Glyphosate exposures and kidney injury biomarkers in infants and young children.	Environmental pollution (2020), Vol. 256, pp. 113334
KCA 5.9	Bando H. et al.	2010	Extreme hyperkalemia in a patient with a new glyphosate potassium herbicide poisoning: report of a case.	The Japanese journal of toxicology (2010), Vol. 23, No. 3, pp. 246
KCA 5.9	Beswick E. et al.	2011	Fatal poisoning with glyphosate-surfactant herbicide.	Journal of the Intensive Care Society (2011), Vol. 12, No. 1, pp. 37

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KCA 5.9	Chau A. M. T. et al.	2011	More Data on the Effect of Haemoperfusion for Acute Poisoning Is Required.	Blood Purification (2011), Vol. 31, No. 1-3, pp. 41
KCA 5.9	Han S. K. et al.	2010	Use of a lipid emulsion in a patient with refractory hypotension caused by glyphosate-surfactant herbicide.	Clinical toxicology (2010), Vol. 48, No. 6, pp. 566
KCA 5.9	Malhotra R. C. et al.	2010	Glyphosate-surfactant herbicide-induced reversible encephalopathy.	Journal of clinical neuroscience (2010), Vol. 17, No. 11, pp. 1472
KCA 5.9	Moon J. M. et al.	2010	Predicting acute complicated glyphosate intoxication in the emergency department.	Clinical toxicology (2010), Vol. 48, No. 7, pp. 718
KCA 5.9	Pan LiPing et al.	2016	Analysis of liver index of workers exposed to glyphosate	Journal of Environmental & Occupational Medicine (2016), Vol. 33, No. 4, pp. 380
KCA 5.9	Park J-S. et al.	2013	Incidence, etiology, and outcomes of rhabdomyolysis in a single terfiary referral center	Journal of Korean Medical Science (2013), Vol. 28, No. 8, pp. 1194
KCA 5.9	Roberts D. M. et al.	2010	A prospective observational study of the clinical toxicology of glyphosate-containing herbicides in adults with acute self-poisoning.	Clinical toxicology (2010), Vol. 48, No. 2, pp. 129
KCA 5.9	Sato C. et al.	2011	Aseptic meningitis in association with glyphosate-surfactant herbicide poisoning.	Clinical toxicology (2011), Vol. 49, No. 2, pp. 118
KCA 5.9	Seok S-J. et al.	2011	Surfactant volume is an essential element in human toxicity in acute glyphosate herbicide intoxication.	Clinical toxicology (2011), Vol. 49, No. 10, pp. 892
KCA 5.9	Shaw G. M. et al.	2014	Early pregnancy agricultural pesticide exposures and risk of gastroschisis among offspring in the San Joaquin Valley of California	Birth Defects Research, Part A: Clinical and Molecular Teratology (2014), Vol. 100, No. 9, pp. 686
KCA 5.9	Shaw W.	2017	Elevated Urinary Glyphosate and Clostridia Metabolites With Altered Dopamine Metabolism in Triplets With Autistic Spectrum Disorder or Suspected Seizure Disorder: A Case Study.	Integrative medicine (2017), Vol. 16, No. 1, pp. 50
KCA 5.9.1	Aris A.	2012	Response to comments from Monsanto scientists on our study showing detection of glyphosate and Cry1Ab in blood of women with and without pregnancy	Reproductive Toxicology (2012), Vol. 33, No. 1, pp. 122
KCA 5.9.1	Dang Q. et al.	2011	Control Effect of Occupational Hazards in Construction Project of Glyphosate Production	Chinese Journal of Public Health Engineering (2011), Vol. 10, no. 2, pp. 111
KCA 5.9.1	Goldstein D. A. et al.	2012	Comment: Aris and Leblanc "Maternal and fetal exposure to pesticides associated to genetically modified foods in Eastern Townships of Quebec, Canada".	Reproductive Toxicology (2012), Vol. 33, No. 1, pp. 120
KCA 5.9.1	Jomichen J. et al.	2017	Australian work exposures studies: occupational exposure to pesticides.	Occupational and environmental medicine (2017), Vol. 74, No. 1, pp. 46

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KCA 5.9.1	Knudsen L. E. et al.	2017	Biomonitoring of Danish school children and mothers including biomarkers of PBDE and glyphosate.	Reviews on environmental health (2017), Vol. 32, No. 3, pp. 279
KCA 5.9.1	Mesnage R. et al.	2012	Glyphosate exposure in a farmer's family.	Journal of Environmental Protection (2012), Vol. 3, No. 9, pp. 1001
KCA 5.9.1	Mills P. J. et al.	2017	Excretion of the Herbicide Glyphosate in Older Adults Between 1993 and 2016.	Journal of the American Medical Association (2017), Vol. 318, No. 16, pp. 1610
KCA 5.9.1	Mills P. J. et al.	2018	Excretion of the herbicide glyphosate in older adults between 1993 and 2016 (vol 318, pg 1610, 2017)	Journal of the American Medical Association (2018), Vol. 319, No. 13, pp. 1386
KCA 5.9.1	Mueller U. et al.	2012	Comment on "Maternal and fetal exposure to pesticides associated to genetically modified foods in Eastern Townships of Quebec, Canada".	Reproductive Toxicology (2012), Vol. 33, No. 3, pp. 401
KCA 5.9.1	Zhang F. et al.	2019	Study on the effect of occupational exposure to glyphosate on blood routine.	Chinese journal of industrial hygiene and occupational diseases (2019), Vol. 37, No. 2, pp. 126
KCA 5.9.2	Bus J. S.	2015	Analysis of Moms Across America report suggesting bioaccumulation of glyphosate in U.S. mother's breast milk: Implausibility based on inconsistency with available body of glyphosate animal toxicokinetic, human biomonitoring, and physico-chemical data.	Regulatory toxicology and pharmacology (2015), Vol. 73, No. 3, pp. 758
KCA 5.9.2	Campuzano C. et al.	2017	Efectos de la intoxicacion por glifosato en la poblacion agricola: revision de tema	Revista CES Salud Publica (2017), Vol. 8, No. 1, pp. 121
KCA 5.9.2	Cho Y. S. et al.	2018	The qSOFA Score: A Simple and Accurate Predictor of Outcome in Patients with Glyphosate Herbicide Poisoning.	Basic & clinical pharmacology & toxicology (2018), Vol. 123, No. 5, pp. 615
KCA 5.9.2	Elsner P. et al.	2018	Occupational koebnerization of psoriasis caused by glyphosate.	Journal der Deutschen Dermatologischen Gesellschaft = Journal of the German Society of Dermatology (2018), Vol. 16, No. 1, pp. 70
KCA 5.9.2	Eriguchi M. et al.	2019	Parkinsonism Relating to Intoxication with Glyphosate.	Internal medicine (2019), Vol. 58, No. 13, pp. 1935
KCA 5.9.2	Frappart M. et al.	2011	A fatal acute poisoning with glyphosate: importance of gastrointestinal toxicity. Original title: Une intoxication aigue fatale au glyphosate : importance de la toxicite digestive.	Annales francaises d'anesthesie et de reanimation (2011), Vol. 30, No. 11, pp. 852
KCA 5.9.2	Goldstein D. A. et al.	2018	Reversible Parkinsonism following glyphosate exposure.	Parkinsonism and Related Disorders (2018), Vol. 56, pp. 107

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KCA 5.9.2	Jayasumana C. et al.	2014	Glyphosate, hard water and nephrotoxic metals: are they the culprits behind the epidemic of chronic kidney disease of unknown etiology in Sri Lanka?.	International journal of environmental research and public health (2014), Vol. 11, No. 2, pp. 2125
KCA 5.9.2	Jayasumana C. et al.	2015	Simultaneous exposure to multiple heavy metals and glyphosate may contribute to Sri Lankan agricultural nephropathy.	BMC nephrology (2015), Vol. 16, pp. 103
KCA 5.9.2	Karberg K. et al.	2018	Glyphosate levels in older adults.	JAMA - Journal of the American Medical Association (2018), Vol. 319, No. 13, pp. 1384
KCA 5.9.2	Khot R. et al.	2018	Glyphosate poisoning with acute fulminant hepatic failure.	Asia Pacific Journal of Medical Toxicology (2018), Vol. 7, No. 3, pp. 86
KCA 5.9.2	Langrand J. et al.	2019	Increased severity associated with tallowamine in acute glyphosate poisoning.	Clinical toxicology (2020), Vol. 58, pp. 201
KCA 5.9.2	Lee M-J. et al.	2019	Hemodynamic changes after infusion of intravenous lipid emulsion to treat refractory hypotension caused by glyphosate-surfactant herbicide poisoning A case report.	Medicine (2019), Vol. 98, No. 3, pp. Article No.: e14156
KCA 5.9.2	Mariager T. P. et al.	2013	Severe adverse effects related to dermal exposure to a glyphosate-surfactant herbicide.	Clinical toxicology (2013), Vol. 51, No. 2, pp. 111
KCA 5.9.2	Mills P. J. et al.	2018	Erratum: Excretion of the herbicide glyphosate in older adults between 1993 and 2016.	Journal of the American Medical Association (2018), Vol. 319, No. 13, pp. 1386
KCA 5.9.2	Mills P. J. et al.	2020	Glyphosate Excretion is Associated With Steatohepatitis and Advanced Liver Fibrosis in Patients With Fatty Liver Disease.	Clinical gastroenterology and hepatology (2020), Vol. 8, pp. 741
KCA 5.9.2	Mills P. J. et al.	2018	Undisclosed conflicts of interest	Journal of the American Medical Association (2018), Vol. 319, No. 13, pp. 1386
KCA 5.9.2	Moon J. M. et al.	2018	Cardiovascular Effects and Fatality May Differ According to the Formulation of Glyphosate Salt Herbicide.	Cardiovascular toxicology (2018), Vol. 18, No. 1, pp. 99
KCA 5.9.2	Niemann L. et al.	2015	A critical review of glyphosate findings in human urine samples and comparison with the exposure of operators and consumers.	Journal fuer Verbraucherschutz und Lebensmittelsicherheit/Journal of Consumer Protection and Food Safety (2015), Vol. 10, No. 1, pp. 3
KCA 5.9.2	Palli E. et al.	2011	Rapture of the large intestine caused by severe oral glyphosate-surfactant intoxication.	The American journal of emergency medicine (2011), Vol. 29, No. 4, pp. 459
KCA 5.9.2	Rendon-von Osten J. et al.	2017	Glyphosate Residues in Groundwater, Drinking Water and Urine of Subsistence Farmers from Intensive Agriculture Localities: A Survey in Hopelchen, Campeche, Mexico.	International journal of environmental research and public health (2017), Vol. 14, No. 6, pp. E595

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KCA 5.9.2	Shrestha S. et al.	2018	Incident thyroid disease in female spouses of private pesticide applicators.	Environment International (2018), Vol. 118, pp. 282
KCA 5.9.2	Solomon K. R.	2016	Glyphosate in the general population and in applicators: a critical review of studies on exposures.	Critical reviews in toxicology (2016), Vol. 46, No. sup1, pp. 21
KCA 5.9.2	Zhang F. et al.	2018	Relationships between internal and external exposure indicators of glyphosate in occupational workers.	Journal of Environmental & Occupational Medicine (2018), Vol. 35, No. 11, pp. 990
KCA 5.9.2	Zheng Q. et al.	2018	Reversible Parkinsonism induced by acute exposure glyphosate.	Parkinsonism & related disorders (2018), Vol. 50, pp. 121
KCA 5.9.2	Zheng Q. et al.	2018	Reply for the comment on "Reversible Parkinsonism induced by acute exposure glyphosate".	Parkinsonism and Related Disorders (2018), Vol. 56, pp. 108
KCA 5.9.4	Acquavella J. et al.	2016	Glyphosate epidemiology expert panel review: a weight of evidence systematic review of the relationship between glyphosate exposure and non-Hodgkin's lymphoma or multiple myeloma.	Critical reviews in toxicology (2016), Vol. 46, No. sup1, pp. 28
KCA 5.9.4	Avgerinou C. et al.	2017	Occupational, dietary, and other risk factors for myelodysplastic syndromes in Western Greece.	Hematology (2017), Vol. 22, No. 7, pp. 419
KCA 5.9.4	Avila-Vazquez M. et al.	2015	Cancer and detrimental reproductive effects in an Argentine agricultural community environmentally exposed to glyphosate. Original Title: Cancer y trastornos reproductivos en una poblacion agricola argentina expuesta a glifosato.	Journal of Biological Physics and Chemistry (2015), Vol. 15, No. 3, pp. 97
KCA 5.9.4	Beard J. D. et al.	2014	Pesticide exposure and depression among male private pesticide applicators in the agricultural health study.	Environmental Health Perspectives (2014), Vol. 122, No. 9, pp. 984
KCA 5.9.4	Beard J. D. et al.	2013	Pesticide exposure and self-reported incident depression among wives in the Agricultural Health Study	Environmental Research (2013), Vol. 126, pp. 31
KCA 5.9.4	Caballero M. et al.	2018	Estimated Residential Exposure to Agricultural Chemicals and Premature Mortality by Parkinson's Disease in Washington State.	International journal of environmental research and public health (2018), Vol. 15, No. 12, pp. 1
KCA 5.9.4	Cai W. et al.	2020	Correlation between CYP1A1 polymorphisms and susceptibility to glyphosate-induced reduction of serum cholinesterase: A case-control study of a Chinese population.	Pesticide biochemistry and physiology (2020), Vol. 162, pp. 23
KCA 5.9.4	Chang E. T. et al.	2016	Systematic review and meta-analysis of glyphosate exposure and risk of lymphohematopoietic cancers.	Journal of environmental science and health. Part. B, Pesticides, food contaminants, and agricultural wastes (2016), Vol. 51, No. 6, pp. 402

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KCA 5.9.4	Conti C. L. et al.	2018	Pesticide exposure, tobacco use, poor self-perceived health and presence of chronic disease are determinants of depressive symptoms among coffee growers from Southeast Brazil	Psychiatry Research (2018), Vol. 260, pp. 187
KCA 5.9.4	Cremonese C. et al.	2017	Occupational exposure to pesticides, reproductive hormone levels and sperm quality in young Brazilian men	Reproductive Toxicology (2017), Vol. 67, pp. 174
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KCA 5.9.5	Wu I-L. et al.	2015	Glyphosate intoxication resulting in ventricular dysrhythmias and cardiogenic shock.	Clinical Toxicology (2015), Vol. 53, No. 4, pp. 329
KCA 5.9.5	Wu M-H. et al.	2015	Successful treatment with hemodialysis for acute renal failure after glyphosate poisoning: A case report.	Clinical Toxicology (2015), Vol. 53, No. 4, pp. 330
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