

# Michael N Routledge

## List of Publications by Year in descending order

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96  
papers

3,602  
citations

147801

31  
h-index

149698

56  
g-index

101  
all docs

101  
docs citations

101  
times ranked

4672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk assessment of aflatoxins in food. <i>EFSA Journal</i> , 2020, 18, e06040.	1.8	172
2	Variation in the measurement of DNA damage by comet assay measured by the ECVAG inter-laboratory validation trial. <i>Mutagenesis</i> , 2010, 25, 113-123.	2.6	155
3	Independent genomewide screens identify the tumor suppressor VTRNA2-1 as a human epiallele responsive to periconceptual environment. <i>Genome Biology</i> , 2015, 16, 118.	9.6	149
4	A Prospective Study of Growth and Biomarkers of Exposure to Aflatoxin and Fumonisin during Early Childhood in Tanzania. <i>Environmental Health Perspectives</i> , 2015, 123, 173-178.	6.0	147
5	Meta-analysis of epigenome-wide association studies in neonates reveals widespread differential DNA methylation associated with birthweight. <i>Nature Communications</i> , 2019, 10, 1893.	12.8	140
6	Aflatoxin Exposure and Associated Human Health Effects, a Review of Epidemiological Studies. <i>Food Safety (Tokyo, Japan)</i> , 2016, 4, 14-27.	1.8	131
7	Mechanism of cellular uptake of genotoxic silica nanoparticles. <i>Particle and Fibre Toxicology</i> , 2012, 9, 29.	6.2	129
8	DNA adducts in different tissues of smokers and non-smokers. <i>International Journal of Cancer</i> , 1990, 45, 673-678.	5.1	112
9	Mutations induced by saturated aqueous nitric oxide in the pSP189 supF gene in human Ad293 and <i>E. coli</i> MBM7070 cells. <i>Carcinogenesis</i> , 1993, 14, 1251-1254.	2.8	107
10	An ECVAG trial on assessment of oxidative damage to DNA measured by the comet assay. <i>Mutagenesis</i> , 2010, 25, 125-132.	2.6	99
11	Dietary exposure to aflatoxin and fumonisin among Tanzanian children as determined using biomarkers of exposure. <i>Molecular Nutrition and Food Research</i> , 2013, 57, 1874-1881.	3.3	94
12	DNA Sequence Changes Induced by Two Nitric Oxide Donor Drugs in the supF Assay. <i>Chemical Research in Toxicology</i> , 1994, 7, 628-632.	3.3	90
13	Epigenetic supersimilarity of monozygotic twin pairs. <i>Genome Biology</i> , 2018, 19, 2.	8.8	89
14	Exposure to aflatoxin B <sub>1</sub> in utero is associated with DNA methylation in white blood cells of infants in The Gambia. <i>International Journal of Epidemiology</i> , 2015, 44, 1238-1248.	1.9	88
15	Aflatoxin Exposure May Contribute to Chronic Hepatomegaly in Kenyan School Children. <i>Environmental Health Perspectives</i> , 2012, 120, 893-896.	6.0	81
16	Inter-laboratory variation in DNA damage using a standard comet assay protocol. <i>Mutagenesis</i> , 2012, 27, 665-672.	2.6	79
17	An ECVAG inter-laboratory validation study of the comet assay: inter-laboratory and intra-laboratory variations of DNA strand breaks and FPG-sensitive sites in human mononuclear cells. <i>Mutagenesis</i> , 2013, 28, 279-286.	2.6	78
18	Methylene blue but not indigo carmine causes DNA damage to colonocytes in vitro and in vivo at concentrations used in clinical chromoendoscopy. <i>Gut</i> , 2007, 56, 155-156.	12.1	75

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19	Systematic Investigation of the Physicochemical Factors That Contribute to the Toxicity of ZnO Nanoparticles. <i>Chemical Research in Toxicology</i> , 2014, 27, 558-567.	3.3	70
20	Cellular prion protein protects against reactive-oxygen-species-induced DNA damage. <i>Free Radical Biology and Medicine</i> , 2007, 43, 959-967.	2.9	52
21	Impaired growth in rural Gambian infants exposed to aflatoxin: a prospective cohort study. <i>BMC Public Health</i> , 2018, 18, 1247.	2.9	51
22	DNA Methylation of GSTP1 as Biomarker in Diagnosis of Prostate Cancer. <i>Urology</i> , 2007, 69, 11-16.	1.0	48
23	Aflatoxin exposure is inversely associated with IGF1 and IGFBP3 levels in vitro and in Kenyan schoolchildren. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 574-581.	3.3	46
24	Reaction with DNA and Mutagenic Specificity of syn-Benzo[g]chrysene 11,12-Dihydrodiol 13,14-Epoxyde. <i>Chemical Research in Toxicology</i> , 1994, 7, 420-427.	3.3	45
25	Recent trends in detecting, controlling, and detoxifying of patulin mycotoxin using biotechnology methods. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2020, 19, 2447-2472.	11.7	45
26	Deoxynivalenol exposure assessment in young children in Tanzania. <i>Molecular Nutrition and Food Research</i> , 2014, 58, 1574-1580.	3.3	42
27	Determination of multi-mycotoxin occurrence in maize based porridges from selected regions of Tanzania by liquid chromatography tandem mass spectrometry (LC-MS/MS), a longitudinal study. <i>Food Control</i> , 2016, 68, 337-343.	5.5	42
28	A pilot study to evaluate aflatoxin exposure in a rural Ugandan population. <i>Tropical Medicine and International Health</i> , 2014, 19, 592-599.	2.3	41
29	A study of trace metal concentration of urban airborne particulate matter and its role in free radical activity as measured by plasmid strand break assay. <i>Atmospheric Environment</i> , 2005, 39, 2377-2384.	4.1	40
30	Risk assessment of deoxynivalenol in high-risk area of China by human biomonitoring using an improved high throughput UPLC-MS/MS method. <i>Scientific Reports</i> , 2018, 8, 3901.	3.3	38
31	Comparison of urinary aflatoxin M1 and aflatoxin albumin adducts as biomarkers for assessing aflatoxin exposure in Tanzanian children. <i>Biomarkers</i> , 2018, 23, 131-136.	1.9	36
32	Seasonal and gestation stage associated differences in aflatoxin exposure in pregnant Gambian women. <i>Tropical Medicine and International Health</i> , 2014, 19, 348-354.	2.3	35
33	Early life exposure to dietary aflatoxins, health impact and control perspectives: A review. <i>Trends in Food Science and Technology</i> , 2021, 112, 212-224.	15.1	34
34	Wild-type and Hupki (Human p53 Knock-in) Murine Embryonic Fibroblasts. <i>Journal of Biological Chemistry</i> , 2010, 285, 11326-11335.	3.4	31
35	Variation of DNA damage levels in peripheral blood mononuclear cells isolated in different laboratories. <i>Mutagenesis</i> , 2014, 29, 241-249.	2.6	30
36	Retinal Pigment Epithelial Cell DNA is Damaged by Exposure to Benzo[ a ]pyrene, a Constituent of Cigarette Smoke. <i>Experimental Eye Research</i> , 2002, 74, 513-522.	2.6	29

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37	Genotoxicity of size-fractionated samples of urban particulate matter. <i>Environmental and Molecular Mutagenesis</i> , 2005, 45, 380-387.	2.2	29
38	The contribution of PM2.5 to cardiovascular disease in China. <i>Environmental Science and Pollution Research</i> , 2020, 27, 37502-37513.	5.3	29
39	Identification of rhein as the metabolite responsible for toxicity of rhubarb anthraquinones. <i>Food Chemistry</i> , 2020, 331, 127363.	8.2	29
40	Mutations induced by reactive nitrogen oxide species in the supF forward mutation assay. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2000, 450, 95-105.	1.0	28
41	Nitrite-induced mutations in a forward mutation assay: Influence of nitrite concentration and pH. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1994, 322, 341-346.	1.2	27
42	Toxicological effects of regulated mycotoxins and persistent organochloride pesticides: In vitro cytotoxic assessment of single and defined mixtures on MA-10 murine Leydig cell line. <i>Toxicology in Vitro</i> , 2018, 48, 93-103.	2.4	27
43	Presence of benzo[a]pyrene diol epoxide adducts in target DNA leads to an increase in UV-induced DNA single strand breaks and supF gene mutations. <i>Carcinogenesis</i> , 2001, 22, 1231-1238.	2.8	26
44	Quantitative correlation of aflatoxin biomarker with dietary intake of aflatoxin in Tanzanian children. <i>Biomarkers</i> , 2014, 19, 430-435.	1.9	26
45	DNA Adducts Formed from 4-Hydroxytamoxifen Are More Mutagenic than Those Formed by $\pm$ -Acetoxytamoxifen in a Shuttle Vector Target Gene Replicated in Human Ad293 Cells. <i>Biochemistry</i> , 2002, 41, 8899-8906.	2.5	25
46	Association of Exposure to Particular Matter and Carotid Intima-Media Thickness: A Systematic Review and Meta-Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 12924-12940.	2.6	25
47	Estimating the health burden of aflatoxin attributable stunting among children in low income countries of Africa. <i>Scientific Reports</i> , 2021, 11, 1619.	3.3	25
48	Mycotoxin exposure and adverse reproductive health outcomes in Africa: a review. <i>World Mycotoxin Journal</i> , 2018, 11, 321-339.	1.4	24
49	Prevalence and Exposure Assessment of Aflatoxins Through Black Tea Consumption in the Multan City of Pakistan and the Impact of Tea Making Process on Aflatoxins. <i>Frontiers in Microbiology</i> , 2020, 11, 446.	3.5	24
50	Estimating the risk of aflatoxin-induced liver cancer in Tanzania based on biomarker data. <i>PLoS ONE</i> , 2021, 16, e0247281.	2.5	24
51	Study of an Educational Hand Sorting Intervention for Reducing Aflatoxin B1 in Groundnuts in Rural Gambia. <i>Journal of Food Protection</i> , 2017, 80, 44-49.	1.7	23
52	<sup>32</sup> P-postlabelling analysis of DNA from human tissues. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1992, 282, 139-145.	1.1	22
53	A pilot survey for Fusarium mycotoxin biomarkers in women from Golestan, northern Iran. <i>World Mycotoxin Journal</i> , 2012, 5, 195-199.	1.4	22
54	$\beta$ -pyrophosphate: A potential biomaterial for dental applications. <i>Materials Science and Engineering C</i> , 2017, 75, 885-894.	7.3	21

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55	Dietary exposure to aflatoxin and micronutrient status among young children from Guinea. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 511-518.	3.3	20
56	Aflatoxin exposure assessed by aflatoxin albumin adduct biomarker in populations from six African countries. <i>World Mycotoxin Journal</i> , 2018, 11, 411-419.	1.4	20
57	Deoxynivalenol and fumonisin exposure in children and adults in a family study in rural Tanzania. <i>World Mycotoxin Journal</i> , 2015, 8, 553-560.	1.4	18
58	Interventions Targeting Child Undernutrition in Developing Countries May Be Undermined by Dietary Exposure to Aflatoxin. <i>Critical Reviews in Food Science and Nutrition</i> , 2017, 57, 00-00.	10.3	18
59	Alteration of fibrin clot properties by ultrafine particulate matter. <i>Thrombosis and Haemostasis</i> , 2010, 103, 103-113.	3.4	17
60	Fibrin clot structure is affected by levels of particulate air pollution exposure in patients with venous thrombosis. <i>Environment International</i> , 2016, 92-93, 70-76.	10.0	17
61	Aflatoxins as a risk factor for liver cirrhosis: a systematic review and meta-analysis. <i>BMC Pharmacology &amp; Toxicology</i> , 2020, 21, 39.	2.4	17
62	Wavelength dependent responses of primary human keratinocytes to combined treatment with benzo[a]pyrene and UV light. <i>Mutagenesis</i> , 2005, 20, 305-310.	2.6	16
63	Fibrin clot structure remains unaffected in young, healthy individuals after transient exposure to diesel exhaust. <i>Particle and Fibre Toxicology</i> , 2010, 7, 17.	6.2	16
64	The effect of individual and mixtures of mycotoxins and persistent organochloride pesticides on oestrogen receptor transcriptional activation using in vitro reporter gene assays. <i>Food and Chemical Toxicology</i> , 2019, 130, 68-78.	3.6	16
65	Mutation Spectra Induced by Î±-Acetoxymoxifenâˆ™DNA Adducts in Human DNA Repair Proficient and Deficient (Xeroderma Pigmentosum Complementation Group A) Cells. <i>Biochemistry</i> , 2005, 44, 8198-8205.	2.5	15
66	Environmentally sensitive hotspots in the methylome of the early human embryo. <i>ELife</i> , 2022, 11, .	6.0	15
67	Molecular explication of grape berry-fungal infections and their potential application in recent postharvest infection control strategies. <i>Trends in Food Science and Technology</i> , 2021, 116, 903-917.	15.1	13
68	SVPD-post-labeling detection of oxidative damage negates the problem of adventitious oxidative effects during 32P-labeling. <i>Carcinogenesis</i> , 1999, 20, 503-507.	2.8	12
69	Immunoaffinity concentration of human lung DNA adducts using an anti-benzo[a]pyrene-diol-epoxide-DNA antibody. Analysis by 32P-postlabelling or ELISA. <i>Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology</i> , 1993, 292, 113-122.	0.4	11
70	Seasonal and geographical differences in aflatoxin exposures in Senegal. <i>World Mycotoxin Journal</i> , 2015, 8, 525-531.	1.4	11
71	Effect of Butylated Hydroxyanisole on the Level of DNA Adduction by Aristolochic Acid in the Rat Forestomach and Liver. <i>Japanese Journal of Cancer Research</i> , 1990, 81, 220-224.	1.7	10
72	In vitro effects of single and binary mixtures of regulated mycotoxins and persistent organochloride pesticides on steroid hormone production in MA-10 Leydig cell line. <i>Toxicology in Vitro</i> , 2019, 60, 272-280.	2.4	9

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73	Assessment of aflatoxins exposure through urinary biomarker approach and the evaluation of the impacts of aflatoxins exposure on the selected health parameters of the children of Multan city of Pakistan. <i>Food Control</i> , 2021, 123, 107863.	5.5	9
74	Preliminary study on the relationship between aflatoxin-bovine serum albumin adducts in blood and aflatoxin M1 levels in milk of dairy cows. <i>Mycotoxin Research</i> , 2020, 36, 207-211.	2.3	8
75	Biomonitoring of Aflatoxin B1 and Deoxynivalenol in a Rural Pakistan Population Using Ultra-Sensitive LC-MS/MS Method. <i>Toxins</i> , 2020, 12, 591.	3.4	8
76	Super-Sensitive LC-MS Analyses of Exposure Biomarkers for Multiple Mycotoxins in a Rural Pakistan Population. <i>Toxins</i> , 2022, 14, 193.	3.4	8
77	Influence of DNA repair gene polymorphisms on the initial repair of MMS-induced DNA damage in human lymphocytes as measured by the alkaline comet assay. <i>Environmental and Molecular Mutagenesis</i> , 2008, 49, 669-675.	2.2	7
78	Comparison of 32P-postlabelling and cytogenetic analysis of human blood treated in vitro with melphalan. <i>Mutagenesis</i> , 1992, 7, 329-333.	2.6	6
79	The Escherichia coli DNA repair protein UvrA can re-associate with the UvrB: aflatoxin B1-DNA complex in vitro. <i>Mutation Research DNA Repair</i> , 1996, 362, 261-268.	3.7	6
80	Binary exposure of A549 cells to benzo[a]pyrene and UVC radiation yields enhanced DNA damage in the comet assay but no enhancement of 8-oxo-deoxyguanosine. <i>Environmental and Molecular Mutagenesis</i> , 2003, 42, 228-230.	2.2	6
81	The mutagenicity of urban particulate matter in an enzyme free system is associated with the generation of reactive oxygen species. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2006, 602, 1-6.	1.0	6
82	Urban Particulate Matter Induces Changes in Gene Expression in Vascular Endothelial Cells that Are Associated with Altered Clot Structure In Vitro. <i>Thrombosis and Haemostasis</i> , 2018, 118, 266-278.	3.4	6
83	Organ Specific Differences in Alteration of Aquaporin Expression in Rats Treated with Sennoside A, Senna Anthraquinones and Rhubarb Anthraquinones. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8026.	4.1	6
84	Comparison of induced and cancer-associated mutational spectra using multivariate data analysis. <i>Carcinogenesis</i> , 2008, 29, 772-778.	2.8	5
85	Aflatoxin Exposure during Early Life Is Associated with Differential DNA Methylation in Two-Year-Old Gambian Children. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8967.	4.1	5
86	Detection of DNA damage by Escherichia coli UvrB-binding competition assay is limited by the stability of the UvrB-DNA complex. <i>Carcinogenesis</i> , 1997, 18, 1407-1413.	2.8	4
87	Effects of the order of exposure to a binary mixture of mutagens on the induced mutation spectra in the supF gene. <i>Mutagenesis</i> , 2004, 19, 137-141.	2.6	4
88	Restrictive Cardiomyopathy Resulting from a Troponin I Type 3 Mutation in a Chinese Family. <i>Chinese Medical Sciences Journal</i> , 2016, 31, 1-7.	0.4	3
89	Impact of dietary aflatoxin on immune development in Gambian infants: a cohort study. <i>BMJ Open</i> , 2021, 11, e048688.	1.9	3
90	Changes to the structure of blood clots formed in the presence of fine particulate matter. <i>Journal of Physics: Conference Series</i> , 2009, 151, 012029.	0.4	1

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91	Dietary Deoxynivalenol Exposure Assessment in University Students from Japan. Food Safety (Tokyo,) Tj ETQq1 1 0,784314 rgBT /Ove	1.8	1
92	The Childhood Acute Illness and Nutrition (CHAIN) network nested case-cohort study protocol: a multi-omics approach to understanding mortality among children in sub-Saharan Africa and South Asia. Gates Open Research, 0, 6, 77.	1.1	1
93	32 P-Postlabelling analysis of ethylene oxide DNA adducts. Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology, 1992, 271, 195.	0.4	0
94	Development of a novel method for the detection of DNA damage using bacterial DNA repair proteins. Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology, 1996, 360, 272.	0.4	0
95	Postlabeling Detection of Oxidative DNA Damage. , 2002, , 294-308.		0
96	An aggregation-induced emission immunoassay for broad detection of polychlorinated biphenyls in chicken and crab. Analytical and Bioanalytical Chemistry, 0, , .	3.7	0