

# Christopher A Bradfield

## List of Publications by Year in descending order

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75  
papers

14,070  
citations

53939

47  
h-index

93651

72  
g-index

77  
all docs

77  
docs citations

77  
times ranked

14536  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mop3 Is an Essential Component of the Master Circadian Pacemaker in Mammals. <i>Cell</i> , 2000, 103, 1009-1017.	13.5	1,380
2	An Interaction between Kynurenine and the Aryl Hydrocarbon Receptor Can Generate Regulatory T Cells. <i>Journal of Immunology</i> , 2010, 185, 3190-3198.	0.4	1,248
3	The PAS Superfamily: Sensors of Environmental and Developmental Signals. <i>Annual Review of Pharmacology and Toxicology</i> , 2000, 40, 519-561.	4.2	959
4	AH RECEPTOR SIGNALING PATHWAYS. <i>Annual Review of Cell and Developmental Biology</i> , 1996, 12, 55-89.	4.0	840
5	Abnormal angiogenesis and responses to glucose and oxygen deprivation in mice lacking the protein ARNT. <i>Nature</i> , 1997, 386, 403-407.	13.7	704
6	AHR drives the development of gut ILC22 cells and postnatal lymphoid tissues via pathways dependent on and independent of Notch. <i>Nature Immunology</i> , 2012, 13, 144-151.	7.0	646
7	The Search for Endogenous Activators of the Aryl Hydrocarbon Receptor. <i>Chemical Research in Toxicology</i> , 2008, 21, 102-116.	1.7	621
8	The AH-receptor: genetics, structure and function. <i>Pharmacogenetics and Genomics</i> , 1993, 3, 213-230.	5.7	434
9	Characterization of a Subset of the Basic-Helix-Loop-Helix-PAS Superfamily That Interacts with Components of the Dioxin Signaling Pathway. <i>Journal of Biological Chemistry</i> , 1997, 272, 8581-8593.	1.6	425
10	Obesity in mice with adipocyte-specific deletion of clock component Arntl. <i>Nature Medicine</i> , 2012, 18, 1768-1777.	15.2	370
11	Ligand-dependent Interaction of the Aryl Hydrocarbon Receptor with a Novel Immunophilin Homolog in Vivo. <i>Journal of Biological Chemistry</i> , 1997, 272, 11452-11456.	1.6	357
12	DNA Binding Specificities and Pairing Rules of the Ah Receptor, ARNT, and SIM Proteins. <i>Journal of Biological Chemistry</i> , 1995, 270, 26292-26302.	1.6	337
13	The aryl hydrocarbon receptor: a perspective on potential roles in the immune system. <i>Immunology</i> , 2009, 127, 299-311.	2.0	336
14	Mammalian Per-Arnt-Sim Proteins in Environmental Adaptation. <i>Annual Review of Physiology</i> , 2010, 72, 625-645.	5.6	321
15	Expression of ARNT, ARNT2, HIF1 $\beta$ , HIF2 $\beta$ and Ah receptor mRNAs in the developing mouse. <i>Mechanisms of Development</i> , 1998, 73, 117-123.	1.7	311
16	Pancreatic $\beta$ cell enhancers regulate rhythmic transcription of genes controlling insulin secretion. <i>Science</i> , 2015, 350, aac4250.	6.0	294
17	Dissecting the Functions of the Mammalian Clock Protein BMAL1 by Tissue-Specific Rescue in Mice. <i>Science</i> , 2006, 314, 1304-1308.	6.0	274
18	Identification of toxicologically predictive gene sets using cDNA microarrays. <i>Molecular Pharmacology</i> , 2001, 60, 1189-1194.	1.0	258

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19	Aryl hydrocarbon receptor-dependent liver development and hepatotoxicity are mediated by different cell types. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17858-17863.	3.3	195
20	Resistance to 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxicity and Abnormal Liver Development in Mice Carrying a Mutation in the Nuclear Localization Sequence of the Aryl Hydrocarbon Receptor. <i>Journal of Biological Chemistry</i> , 2003, 278, 17767-17774.	1.6	188
21	Cross-talk between the Aryl Hydrocarbon Receptor and Hypoxia Inducible Factor Signaling Pathways. <i>Journal of Biological Chemistry</i> , 1999, 274, 12115-12123.	1.6	182
22	Characterization of the Ah Receptor-associated Protein, ARA9. <i>Journal of Biological Chemistry</i> , 1998, 273, 33580-33587.	1.6	180
23	Progressive arthropathy in mice with a targeted disruption of the Mop3/Bmal-1 locus. <i>Genesis</i> , 2005, 41, 122-132.	0.8	176
24	Tissue specific expression of the rat Ah-receptor and ARNT mRNAs. <i>Nucleic Acids Research</i> , 1994, 22, 3038-3044.	6.5	162
25	The Aryl Hydrocarbon Receptors and Xenobiotics: Endogenous Function in Genetic Model Systems. <i>Molecular Pharmacology</i> , 2007, 72, 487-498.	1.0	155
26	The Aryl Hydrocarbon Receptor Is Required for Developmental Closure of the Ductus Venosus in the Neonatal Mouse. <i>Molecular Pharmacology</i> , 2005, 67, 714-720.	1.0	149
27	Differential effects of light and feeding on circadian organization of peripheral clocks in a forebrain Bmal1 mutant. <i>ELife</i> , 2014, 3, .	2.8	140
28	Genetic Components of the Circadian Clock Regulate Thrombogenesis In Vivo. <i>Circulation</i> , 2008, 117, 2087-2095.	1.6	130
29	ahr null alleles: distinctive or different?. <i>Biochemical Pharmacology</i> , 1998, 56, 781-787.	2.0	126
30	Abnormal Liver Development and Resistance to 2,3,7,8-Tetrachlorodibenzo-p-Dioxin Toxicity in Mice Carrying a Mutation in the DNA-Binding Domain of the Aryl Hydrocarbon Receptor. <i>Toxicological Sciences</i> , 2008, 106, 83-92.	1.4	123
31	The Aryl hydrocarbon receptor is activated by modified low-density lipoprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1412-1417.	3.3	119
32	Gestational exposure of Ahr and Arnt hypomorphs to dioxin rescues vascular development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16677-16682.	3.3	114
33	Patent Ductus Venosus and Dioxin Resistance in Mice Harboring a Hypomorphic Arnt Allele. <i>Journal of Biological Chemistry</i> , 2004, 279, 16326-16331.	1.6	109
34	Trace derivatives of kynurenine potently activate the aryl hydrocarbon receptor (AHR). <i>Journal of Biological Chemistry</i> , 2018, 293, 1994-2005.	1.6	107
35	ARA9 Modifies Agonist Signaling through an Increase in Cytosolic Aryl Hydrocarbon Receptor. <i>Journal of Biological Chemistry</i> , 2000, 275, 6153-6159.	1.6	106
36	Aspartate Aminotransferase Generates Proagonists of the Aryl Hydrocarbon Receptor. <i>Molecular Pharmacology</i> , 2003, 64, 550-556.	1.0	94

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37	Transcriptional Basis for Rhythmic Control of Hunger and Metabolism within the AgRP Neuron. <i>Cell Metabolism</i> , 2019, 29, 1078-1091.e5.	7.2	91
38	The role of the dioxin-responsive element cluster between the <i>Cyp1a1</i> and <i>Cyp1a2</i> loci in aryl hydrocarbon receptor biology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4923-4928.	3.3	90
39	Loss of BMAL1 in ovarian steroidogenic cells results in implantation failure in female mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14295-14300.	3.3	90
40	Structural hierarchy controlling dimerization and target DNA recognition in the AHR transcriptional complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5431-5436.	3.3	90
41	Hepatocyte circadian clock controls acetaminophen bioactivation through NADPH-cytochrome P450 oxidoreductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18757-18762.	3.3	75
42	The Aryl Hydrocarbon Receptor is a Repressor of Inflammation-associated Colorectal Tumorigenesis in Mouse. <i>Annals of Surgery</i> , 2016, 264, 429-436.	2.1	75
43	The Ah Receptor: Adaptive Metabolism, Ligand Diversity, and the Xenokine Model. <i>Chemical Research in Toxicology</i> , 2020, 33, 860-879.	1.7	68
44	Advances in Toxicogenomics. <i>Chemical Research in Toxicology</i> , 2005, 18, 403-414.	1.7	59
45	Identification of the Ah-Receptor Structural Determinants for Ligand Preferences. <i>Toxicological Sciences</i> , 2012, 129, 86-97.	1.4	59
46	Liver Deformation in Ahr-Null Mice: Evidence for Aberrant Hepatic Perfusion In Early Development. <i>Molecular Pharmacology</i> , 2006, 69, 1534-1541.	1.0	56
47	Aspects of Dioxin Toxicity Are Mediated by Interleukin 1-Like Cytokines. <i>Molecular Pharmacology</i> , 2005, 67, 1393-1398.	1.0	50
48	The Aryl Hydrocarbon Receptor-interacting Protein (AIP) Is Required for Dioxin-induced Hepatotoxicity but Not for the Induction of the <i>Cyp1a1</i> and <i>Cyp1a2</i> Genes. <i>Journal of Biological Chemistry</i> , 2010, 285, 35599-35605.	1.6	44
49	A Hypomorphic Allele of <i>Aryl Hydrocarbon Receptor-Associated Protein-9</i> Produces a Phenocopy of the <i>Ahr</i> -Null Mouse. <i>Molecular Pharmacology</i> , 2008, 74, 1367-1371.	1.0	43
50	Polycyclic aromatic hydrocarbons (PAHs) present in ambient urban dust drive proinflammatory T cell and dendritic cell responses via the aryl hydrocarbon receptor (AHR) in vitro. <i>PLoS ONE</i> , 2018, 13, e0209690.	1.1	40
51	SU5416, a VEGF Receptor Inhibitor and Ligand of the AHR, Represents a New Alternative for Immunomodulation. <i>PLoS ONE</i> , 2012, 7, e44547.	1.1	38
52	Liver Tumor Promotion by 2,3,7,8-Tetrachlorodibenzo-p-dioxin Is Dependent on the Aryl Hydrocarbon Receptor and TNF/IL-1 Receptors. <i>Toxicological Sciences</i> , 2014, 140, 135-143.	1.4	38
53	Structural Identification of Diindole Agonists of the Aryl Hydrocarbon Receptor Derived from Degradation of Indole-3-pyruvic Acid. <i>Chemical Research in Toxicology</i> , 2009, 22, 1905-1912.	1.7	35
54	Hepatic Transcriptional Networks Induced by Exposure to 2,3,7,8-Tetrachlorodibenzo-p-dioxin. <i>Chemical Research in Toxicology</i> , 2007, 20, 1573-1581.	1.7	34

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55	<scp>d</scp>-Amino Acid Oxidase Generates Agonists of the Aryl Hydrocarbon Receptor from <scp>d</scp>-Tryptophan. <i>Chemical Research in Toxicology</i> , 2009, 22, 1897-1904.	1.7	33
56	Aryl Hydrocarbon Receptor Nuclear Translocator in Hepatocytes Is Required for Aryl Hydrocarbon Receptorâ€™Mediated Adaptive and Toxic Responses in Liver. <i>Toxicological Sciences</i> , 2010, 118, 554-563.	1.4	33
57	Conserved genomic structure of the Cyp1a1 and Cyp1a2 loci and their dioxin responsive elements cluster. <i>Biochemical Pharmacology</i> , 2009, 77, 654-659.	2.0	30
58	Differential effects of diesel exhaust particles on T cell differentiation and autoimmune disease. <i>Particle and Fibre Toxicology</i> , 2018, 15, 35.	2.8	30
59	Mapping the 90 kDa heat shock protein binding region of the Ah receptor. <i>IUBMB Life</i> , 1996, 39, 589-593.	1.5	29
60	A Maternal Ahr Null Genotype Sensitizes Embryos to Chemical Teratogenesis. <i>Journal of Biological Chemistry</i> , 2004, 279, 30189-30194.	1.6	27
61	T cells hang in the balance. <i>Nature</i> , 2008, 453, 46-47.	13.7	27
62	Ambient urban dust particulate matter reduces pathologic T cells in the CNS and severity of EAE. <i>Environmental Research</i> , 2019, 168, 178-192.	3.7	20
63	Clustered alignments of gene-expression time series data. <i>Bioinformatics</i> , 2009, 25, i119-i1127.	1.8	17
64	The Aryl Hydrocarbon Receptor Signaling Pathway Is Modified through Interactions with a Kelch Protein. <i>Molecular Pharmacology</i> , 2006, 70, 8-15.	1.0	16
65	The Toll-like receptor agonist imiquimod is metabolized by aryl hydrocarbon receptor-regulated cytochrome P450 enzymes in human keratinocytes and mouse liver. <i>Archives of Toxicology</i> , 2019, 93, 1917-1926.	1.9	16
66	The aryl hydrocarbon receptor as a model PAS sensor. <i>Toxicology Reports</i> , 2022, 9, 1-11.	1.6	13
67	Transcriptional differences between smokers and non-smokers and variance by obesity as a risk factor for human sensitivity to environmental exposures. <i>Environment International</i> , 2018, 113, 249-258.	4.8	8
68	Rodent genetic models of Ah receptor signaling. <i>Drug Metabolism Reviews</i> , 2021, 53, 350-374.	1.5	7
69	Association of a Chromosomal Rearrangement Event with Mouse Posterior Polymorphous Corneal Dystrophy and Alterations in Csrp2bp, Dzank1, and Ovol2 Gene Expression. <i>PLoS ONE</i> , 2016, 11, e0157577.	1.1	6
70	Generation of an Allelic Series at the Ahr Locus Using an Edited Recombinant Approach. <i>Toxicological Sciences</i> , 2021, 180, 239-251.	1.4	6
71	The AH Receptor. , 2003, , 149-182.		3
72	Retinal pathology in the PPCD1 mouse. <i>PLoS ONE</i> , 2017, 12, e0185094.	1.1	2

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73	Alan Poland, MS, MD: 1940â€“2020 Poisons as Probes of Biological Function. Chemical Research in Toxicology, 2021, 34, 1-4.	1.7	2
74	12382 Circadian Disruption in Pancreatic Cancer Carcinogenesis. Journal of Clinical and Translational Science, 2021, 5, 7-8.	0.3	0
75	Enhanced sensitivity of an Ah-receptor system in yeast through condition modification and use of mammalian modifiers. Toxicology Reports, 2022, 9, 513-520.	1.6	0