

Xavier Coumoul

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

4,377
citations

94433

37
h-index

118850

62
g-index

115
all docs

115
docs citations

115
times ranked

6263
citing authors

#	ARTICLE	IF	CITATIONS
1	AhR signaling pathways and regulatory functions. <i>Biochimie Open</i> , 2018, 7, 1-9.	3.2	367
2	The aryl hydrocarbon receptor, more than a xenobiotic-interacting protein. <i>FEBS Letters</i> , 2007, 581, 3608-3615.	2.8	347
3	RNA interference and inhibition of MEK-ERK signaling prevent abnormal skeletal phenotypes in a mouse model of craniosynostosis. <i>Nature Genetics</i> , 2007, 39, 1145-1150.	21.4	179
4	Activation of the dioxin/aryl hydrocarbon receptor (AhR) modulates cell plasticity through a JNK-dependent mechanism. <i>Oncogene</i> , 2006, 25, 5570-5574.	5.9	134
5	The AhR twist: ligand-dependent AhR signaling and pharmaco-toxicological implications. <i>Drug Discovery Today</i> , 2013, 18, 479-486.	6.4	115
6	Roles of FGF receptors in mammalian development and congenital diseases. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2003, 69, 286-304.	3.6	107
7	PXR-dependent induction of human CYP3A4 gene expression by organochlorine pesticides. <i>Biochemical Pharmacology</i> , 2002, 64, 1513-1519.	4.4	106
8	Butyrate elicits a metabolic switch in human colon cancer cells by targeting the pyruvate dehydrogenase complex. <i>International Journal of Cancer</i> , 2011, 128, 2591-2601.	5.1	105
9	ATM/Chk2/p53 activation prevents tumorigenesis at an expense of organ homeostasis upon Brca1 deficiency. <i>EMBO Journal</i> , 2006, 25, 2167-2177.	7.8	103
10	The aryl hydrocarbon receptor system. <i>Drug Metabolism and Drug Interactions</i> , 2012, 27, 3-8.	0.3	101
11	Aryl Hydrocarbon Receptor-Dependent Induction of Liver Fibrosis by Dioxin. <i>Toxicological Sciences</i> , 2014, 137, 114-124.	3.1	99
12	Chronic Exposure to Low Doses of Dioxin Promotes Liver Fibrosis Development in the C57BL/6J Diet-Induced Obesity Mouse Model. <i>Environmental Health Perspectives</i> , 2017, 125, 428-436.	6.0	98
13	The Aryl Hydrocarbon Receptor and the Nervous System. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2504.	4.1	97
14	BRCA1 affects global DNA methylation through regulation of DNMT1. <i>Cell Research</i> , 2010, 20, 1201-1215.	12.0	92
15	Environmental chemicals, breast cancer progression and drug resistance. <i>Environmental Health</i> , 2020, 19, 117.	4.0	91
16	Resveratrol reverses the Warburg effect by targeting the pyruvate dehydrogenase complex in colon cancer cells. <i>Scientific Reports</i> , 2017, 7, 6945.	3.3	85
17	The aryl hydrocarbon receptor regulates focal adhesion sites through a non-genomic FAK/Src pathway. <i>Oncogene</i> , 2013, 32, 1811-1820.	5.9	84
18	Conditional knockdown of Fgfr2 in mice using Cre-LoxP induced RNA interference. <i>Nucleic Acids Research</i> , 2005, 33, e102-e102.	14.5	80

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19	Nedd9/Hef1/Cas-L mediates the effects of environmental pollutants on cell migration and plasticity. <i>Oncogene</i> , 2009, 28, 3642-3651.	5.9	70
20	Linking Bisphenol S to Adverse Outcome Pathways Using a Combined Text Mining and Systems Biology Approach. <i>Environmental Health Perspectives</i> , 2019, 127, 47005.	6.0	69
21	Differential regulation of cytochrome P450 1A1 and 1B1 by a combination of dioxin and pesticides in the breast tumor cell line MCF-7. <i>Cancer Research</i> , 2001, 61, 3942-8.	0.9	69
22	Understanding SOS (Son of Sevenless). <i>Biochemical Pharmacology</i> , 2011, 82, 1049-1056.	4.4	64
23	Low-dose exposure to bisphenols A, F and S of human primary adipocyte impacts coding and non-coding RNA profiles. <i>PLoS ONE</i> , 2017, 12, e0179583.	2.5	64
24	Obesity II: Establishing causal links between chemical exposures and obesity. <i>Biochemical Pharmacology</i> , 2022, 199, 115015.	4.4	62
25	Inducible suppression of Fgfr2 and Survivin in ES cells using a combination of the RNA interference (RNAi) and the Cre-LoxP system. <i>Nucleic Acids Research</i> , 2004, 32, e85-e85.	14.5	58
26	Associations between persistent organic pollutants and risk of breast cancer metastasis. <i>Environment International</i> , 2019, 132, 105028.	10.0	58
27	Applying a Virtual Reality Platform in Environmental Chemistry Education To Conduct a Field Trip to an Overseas Site. <i>Journal of Chemical Education</i> , 2019, 96, 382-386.	2.3	53
28	AhR-deficiency as a cause of demyelinating disease and inflammation. <i>Scientific Reports</i> , 2017, 7, 9794.	3.3	49
29	Deciphering Adverse Outcome Pathway Network Linked to Bisphenol F Using Text Mining and Systems Toxicology Approaches. <i>Toxicological Sciences</i> , 2020, 173, 32-40.	3.1	48
30	Absence of the Full-Length Breast Cancer-Associated Gene-1 Leads to Increased Expression of Insulin-Like Growth Factor Signaling Axis Members. <i>Cancer Research</i> , 2006, 66, 7151-7157.	0.9	46
31	Absence of full-length Brca1 sensitizes mice to oxidative stress and carcinogen-induced tumorigenesis in the esophagus and forestomach. <i>Carcinogenesis</i> , 2007, 28, 1401-1407.	2.8	46
32	Design, Synthesis, and Evaluation of Novel Imidazo[1,2- <i>a</i>][1,3,5]triazines and Their Derivatives as Focal Adhesion Kinase Inhibitors with Antitumor Activity. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 237-251.	6.4	46
33	Aryl hydrocarbon receptor-dependent upregulation of Cyp1b1 by TCDD and diesel exhaust particles in rat brain microvessels. <i>Fluids and Barriers of the CNS</i> , 2011, 8, 23.	5.0	43
34	Associations of Plasma Concentrations of Dichlorodiphenyldichloroethylene and Polychlorinated Biphenyls with Prostate Cancer: A Case-Control Study in Guadeloupe (French West Indies). <i>Environmental Health Perspectives</i> , 2015, 123, 317-323.	6.0	43
35	Effect of quercetin on paraoxonase 1 activity—studies in cultured cells, mice and humans. <i>Journal of Physiology and Pharmacology</i> , 2010, 61, 99-105.	1.1	43
36	NOD mice contain an elevated frequency of iNKT17 cells that exacerbate diabetes. <i>European Journal of Immunology</i> , 2011, 41, 3574-3585.	2.9	39

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37	Integrative Strategy of Testing Systems for Identification of Endocrine Disruptors Inducing Metabolic Disorders: An Introduction to the OBERON Project. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2988.	4.1	38
38	Aryl Hydrocarbon Receptor and Its Diverse Ligands and Functions: An Exposome Receptor. <i>Annual Review of Pharmacology and Toxicology</i> , 2022, 62, 383-404.	9.4	37
39	Oculomotor Deficits in Aryl Hydrocarbon Receptor Null Mouse. <i>PLoS ONE</i> , 2013, 8, e53520.	2.5	37
40	Exposure to food additive mixtures in 106,000 French adults from the NutriNet-Santé cohort. <i>Scientific Reports</i> , 2021, 11, 19680.	3.3	37
41	Integration of the human exposome with the human genome to advance medicine. <i>Biochimie</i> , 2018, 152, 155-158.	2.6	36
42	Dimethyl-Benz(a)anthracene: A mammary carcinogen and a neuroendocrine disruptor. <i>Biochimie Open</i> , 2016, 3, 49-55.	3.2	33
43	2,3,7,8-Tetrachlorodibenzo-p-Dioxin Counteracts the p53 Response to a Genotoxicant by Upregulating Expression of the Metastasis Marker AGR2 in the Hepatocarcinoma Cell Line HepG2. <i>Toxicological Sciences</i> , 2010, 115, 501-512.	3.1	31
44	Induction of the Ras activator Son of Sevenless 1 by environmental pollutants mediates their effects on cellular proliferation. <i>Biochemical Pharmacology</i> , 2011, 81, 304-313.	4.4	30
45	Mitochondrial Dysfunction as a Hallmark of Environmental Injury. <i>Cells</i> , 2022, 11, 110.	4.1	28
46	Properties of Overlapping EREs: Synergistic Activation of Transcription and Cooperative Binding of ER. <i>Biochemistry</i> , 1998, 37, 6023-6032.	2.5	27
47	RNAi in mice: a promising approach to decipher gene functions in vivo. <i>Biochimie</i> , 2006, 88, 637-643.	2.6	27
48	Involvement of Aryl hydrocarbon receptor in myelination and in human nerve sheath tumorigenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1319-E1328.	7.1	27
49	Expression, Localization, and Activity of the Aryl Hydrocarbon Receptor in the Human Placenta. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3762.	4.1	24
50	Structure-Based Design, Synthesis, and Characterization of the First Irreversible Inhibitor of Focal Adhesion Kinase. <i>ACS Chemical Biology</i> , 2018, 13, 2067-2073.	3.4	24
51	Design, Synthesis, and Biological Evaluation of Covalent Inhibitors of Focal Adhesion Kinase (FAK) against Human Malignant Glioblastoma. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 12707-12724.	6.4	24
52	Adverse outcome pathway from activation of the AhR to breast cancer-related death. <i>Environment International</i> , 2022, 165, 107323.	10.0	24
53	Exposure to metal oxide nanoparticles administered at occupationally relevant doses induces pulmonary effects in mice. <i>Nanotoxicology</i> , 2016, 10, 1535-1544.	3.0	21
54	Persistent Induction of Cytochrome P4501A1 in Human Hepatoma Cells by 3-Methylcholanthrene: Evidence for Sustained Transcriptional Activation of the CYP1A1 Promoter. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 333, 99-109.	2.5	20

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55	AOP4EUpest: mapping of pesticides in adverse outcome pathways using a text mining tool. <i>Bioinformatics</i> , 2020, 36, 4379-4381.	4.1	20
56	The Exposome and Toxicology: A Winâ€“Win Collaboration. <i>Toxicological Sciences</i> , 2022, 186, 1-11.	3.1	20
57	Cytochromes P450 of <i>Caenorhabditis elegans</i> : Implication in Biological Functions and Metabolism of Xenobiotics. <i>Biomolecules</i> , 2022, 12, 342.	4.0	19
58	Release and toxicity of adipose tissue-stored TCDD: Direct evidence from a xenografted fat model. <i>Environment International</i> , 2018, 121, 1113-1120.	10.0	18
59	RNAi-based conditional gene knockdown in mice using a U6 promoter driven vector. <i>International Journal of Biological Sciences</i> , 2007, 3, 91-99.	6.4	18
60	Associations between exposure to organochlorine chemicals and endometriosis in experimental studies: A systematic review protocol. <i>Environment International</i> , 2019, 124, 400-407.	10.0	17
61	Citrulline reduces glyceroneogenesis and induces fatty acid release in visceral adipose tissue from overweight rats. <i>Molecular Nutrition and Food Research</i> , 2014, 58, 2320-2330.	3.3	16
62	Aggressiveness and Metastatic Potential of Breast Cancer Cells Co-Cultured with Preadipocytes and Exposed to an Environmental Pollutant Dioxin: An <i>in Vitro</i> and <i>in Vivo</i> Zebrafish Study. <i>Environmental Health Perspectives</i> , 2021, 129, 37002.	6.0	16
63	Identification of non-validated endocrine disrupting chemical characterization methods by screening of the literature using artificial intelligence and by database exploration. <i>Environment International</i> , 2021, 154, 106574.	10.0	16
64	Identification of a new stilbene-derived inducer of paraoxonase 1 and ligand of the Aryl hydrocarbon Receptor. <i>Biochemical Pharmacology</i> , 2012, 83, 627-632.	4.4	15
65	First evidence of aryl hydrocarbon receptor as a druggable target in hypertension induced by chronic intermittent hypoxia. <i>Pharmacological Research</i> , 2020, 159, 104869.	7.1	14
66	Cell migration and metastasis markers as targets of environmental pollutants and the Aryl hydrocarbon receptor. <i>Cell Adhesion and Migration</i> , 2010, 4, 72-76.	2.7	13
67	Activation of the aryl hydrocarbon receptor by carcinogenic aromatic amines and modulatory effects of their N-acetylated metabolites. <i>Archives of Toxicology</i> , 2015, 89, 2403-2412.	4.2	13
68	Regulation of Aquaporin 3 Expression by the AhR Pathway Is Critical to Cell Migration. <i>Toxicological Sciences</i> , 2016, 149, 158-166.	3.1	13
69	A dual mixture of persistent organic pollutants modifies carbohydrate metabolism in the human hepatic cell line HepaRG. <i>Environmental Research</i> , 2019, 178, 108628.	7.5	12
70	The GMO90+ Project: Absence of Evidence for Biologically Meaningful Effects of Genetically Modified Maize-based Diets on Wistar Rats After 6-Months Feeding Comparative Trial. <i>Toxicological Sciences</i> , 2019, 168, 315-338.	3.1	12
71	Uptake of Cerium Dioxide Nanoparticles and Impact on Viability, Differentiation and Functions of Primary Trophoblast Cells from Human Placenta. <i>Nanomaterials</i> , 2020, 10, 1309.	4.1	12
72	Nuclear Factor I/CCAAT Box Transcription Factor trans-Activating Domain Is a Negative Sensor of Cellular Stress. <i>Molecular Pharmacology</i> , 2000, 58, 1239-1246.	2.3	11

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73	Associations between Exposure to Organochlorine Chemicals and Endometriosis: A Systematic Review of Experimental Studies and Integration of Epidemiological Evidence. <i>Environmental Health Perspectives</i> , 2021, 129, 76003.	6.0	11
74	Determination of Heavy Metal Concentrations in Normal and Pathological Human Endometrial Biopsies and In Vitro Regulation of Gene Expression by Metals in the Ishikawa and Hec-1b Endometrial Cell Line. <i>PLoS ONE</i> , 2015, 10, e0142590.	2.5	11
75	Hexokinase 2 is a transcriptional target and a positive modulator of AHR signalling. <i>Nucleic Acids Research</i> , 2022, 50, 5545-5564.	14.5	10
76	Characterization of GMO or glyphosate effects on the composition of maize grain and maize-based diet for rat feeding. <i>Metabolomics</i> , 2018, 14, 36.	3.0	9
77	Aryl Hydrocarbon Receptor and Cysteine Redox Dynamics Underlie (Mal)adaptive Mechanisms to Chronic Intermittent Hypoxia in Kidney Cortex. <i>Antioxidants</i> , 2021, 10, 1484.	5.1	9
78	IGF Signaling Pathway as a Selective Target of Familial Breast Cancer Therapy. <i>Current Molecular Medicine</i> , 2008, 8, 727-740.	1.3	7
79	Aryl hydrocarbon receptor and liver fibrosis. <i>Current Opinion in Toxicology</i> , 2018, 8, 8-13.	5.0	7
80	Microplastic freshwater contamination: an issue advanced by science with public engagement. <i>Environmental Science and Pollution Research</i> , 2019, 26, 16904-16905.	5.3	7
81	Human Placental NADPH Oxidase Mediates sFlt-1 and PlGF Secretion in Early Pregnancy: Exploration of the TGF- β 1/p38 MAPK Pathways. <i>Antioxidants</i> , 2021, 10, 281.	5.1	7
82	GÃ©notoxicitÃ© des mÃ©tabolites des Å“strogÃ©nes et cancers. <i>Medecine/Sciences</i> , 2002, 18, 86-90.	0.2	5
83	Aryl hydrocarbon receptor upregulates IL-1 β expression in hCMEC/D3 human cerebral microvascular endothelial cells after TCDD exposure. <i>Toxicology in Vitro</i> , 2017, 41, 200-204.	2.4	5
84	Age-dependent vulnerability of the ovary to AhR-mediated TCDD action before puberty: Evidence from mouse models. <i>Chemosphere</i> , 2020, 258, 127361.	8.2	5
85	Identification of Modulators of the C.Åelegans Aryl Hydrocarbon Receptor and Characterization of Transcriptomic and Metabolic AhR-1 Profiles. <i>Antioxidants</i> , 2022, 11, 1030.	5.1	5
86	Rat feeding trials: A comprehensive assessment of contaminants in both genetically modified maize and resulting pellets. <i>Food and Chemical Toxicology</i> , 2018, 121, 573-582.	3.6	4
87	Les xÃ©biotiques, quel impact sur les maladies mÃ©taboliquesÃ©?. <i>Cahiers De Nutrition Et De Dietetique</i> , 2019, 54, 286-293.	0.3	3
88	Toxicological effects of 2,3,7,8 tetrachlorodibenzo-p-dioxin on the skeletal muscle of mice during the perinatal period: a metabolomics study. <i>Environmental Sciences Europe</i> , 2022, 34, .	5.5	3
89	Lack of Skeletal Muscle Serotonin Impairs Physical Performance. <i>International Journal of Tryptophan Research</i> , 2021, 14, 117864692110031.	2.3	2
90	Aryl Hydrocarbon Receptor-Dependent and -Independent Pathways Mediate Curcumin Anti-Aging Effects. <i>Antioxidants</i> , 2022, 11, 613.	5.1	2

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91	Le récepteur de la dioxine: rôle endogène et médiateur de la toxicité de la dioxine. Cahiers De Nutrition Et De Dietetique, 2011, 46, 67-74.	0.3	1
92	Alimentation, pesticides et pathologies neurologiques. Cahiers De Nutrition Et De Dietetique, 2014, 49, 74-80.	0.3	1
93	Contaminants alimentaires et le risque de cancer. Cahiers De Nutrition Et De Dietetique, 2016, 51, 104-110.	0.3	1
94	A forum where french-speaking faculty can exchange research on teaching. Biochemistry and Molecular Biology Education, 2019, 47, 599-606.	1.2	1
95	TCDD aggravates the formation of the atherosclerotic plaque in ApoE KO mice with a sexual dimorphic pattern. Biochimie, 2022, 195, 54-58.	2.6	1
96	2,3,7,8-Tetrachloro-dibenzo-p-dioxin counteracts the p53 response to a genotoxicant by up-regulating expression of the metastasis marker AGR2 in the hepatocarcinoma cell line HepG2. Toxicology Letters, 2010, 196, S215.	0.8	0
97	Editorial. Biochimie Open, 2015, 1, 60.	3.2	0
98	The AhR: A regulator of liver fibrosis?. Toxicology Letters, 2016, 258, S50.	0.8	0
99	Large scale studies of the influence of GMO-based corn diet after 6 months of consumption in Wistar rats. Toxicology Letters, 2017, 280, S106.	0.8	0
100	ARYL HYDROCARBON RECEPTOR ANTAGONISTS - A NEW ENTRY IN ANTIHYPERTENSIVE ARMAMENTARIUM OF OBSTRUCTIVE SLEEP APNEA?. Journal of Hypertension, 2021, 39, e255-e256.	0.5	0