Xavier Coumoul

List of Publications by Citations

95 papers	3,084 citations	31 h-index	53 g-index
115 ext. papers	3,684 ext. citations	6.9 avg, IF	5.35 L-index

#	Paper	IF	Citations
95	The aryl hydrocarbon receptor, more than a xenobiotic-interacting protein. *FEBS Letters*, **2007**, 581, 3608-15	3.8	297
94	AhR signaling pathways and regulatory functions. *Biochimie Open*, **2018**, 7, 1-9	0	208
93	RNA interference and inhibition of MEK-ERK signaling prevent abnormal skeletal phenotypes in a mouse model of craniosynostosis. *Nature Genetics*, **2007**, 39, 1145-50	36.3	152
92	Activation of the dioxin/aryl hydrocarbon receptor (AhR) modulates cell plasticity through a JNK-dependent mechanism. *Oncogene*, **2006**, 25, 5570-4	9.2	118
91	PXR-dependent induction of human CYP3A4 gene expression by organochlorine pesticides. *Biochemical Pharmacology*, **2002**, 64, 1513-9	6	96
90	Roles of FGF receptors in mammalian development and congenital diseases. *Birth Defects Research Part C: Embryo Today Reviews*, **2003**, 69, 286-304		89
89	ATM-Chk2-p53 activation prevents tumorigenesis at an expense of organ homeostasis upon Brca1 deficiency. *EMBO Journal*, **2006**, 25, 2167-77	13	87
88	The AhR twist: ligand-dependent AhR signaling and pharmaco-toxicological implications. *Drug Discovery Today*, **2013**, 18, 479-86	8.8	86
87	The aryl hydrocarbon receptor system. *Drug Metabolism and Drug Interactions*, **2012**, 27, 3-8		83
86	Butyrate elicits a metabolic switch in human colon cancer cells by targeting the pyruvate dehydrogenase complex. *International Journal of Cancer*, **2011**, 128, 2591-601	7.5	82
85	Aryl hydrocarbon receptor-dependent induction of liver fibrosis by dioxin. *Toxicological Sciences*, **2014**, 137, 114-24	4.4	79
84	BRCA1 affects global DNA methylation through regulation of DNMT1. *Cell Research*, **2010**, 20, 1201-15	24.7	79
83	Conditional knockdown of Fgfr2 in mice using Cre-LoxP induced RNA interference. *Nucleic Acids Research*, **2005**, 33, e102	20.1	74
82	Chronic Exposure to Low Doses of Dioxin Promotes Liver Fibrosis Development in the C57BL/6J Diet-Induced Obesity Mouse Model. *Environmental Health Perspectives*, **2017**, 125, 428-436	8.4	71
81	Nedd9/Hef1/Cas-L mediates the effects of environmental pollutants on cell migration and plasticity. *Oncogene*, **2009**, 28, 3642-51	9.2	65
80	The aryl hydrocarbon receptor regulates focal adhesion sites through a non-genomic FAK/Src pathway. *Oncogene*, **2013**, 32, 1811-20	9.2	62
79	Differential regulation of cytochrome P450 1A1 and 1B1 by a combination of dioxin and pesticides in the breast tumor cell line MCF-7. *Cancer Research*, **2001**, 61, 3942-8	10.1	61

78	Resveratrol reverses the Warburg effect by targeting the pyruvate dehydrogenase complex in colon cancer cells. *Scientific Reports*, **2017**, 7, 6945	4.9	58
77	Understanding SOS (Son of Sevenless). *Biochemical Pharmacology*, **2011**, 82, 1049-56	6	50
76	Inducible suppression of Fgfr2 and Survivin in ES cells using a combination of the RNA interference (RNAi) and the Cre-LoxP system. *Nucleic Acids Research*, **2004**, 32, e85	20.1	50
75	Low-dose exposure to bisphenols A, F and S of human primary adipocyte impacts coding and non-coding RNA profiles. *PLoS ONE*, **2017**, 12, e0179583	3.7	50
74	The Aryl Hydrocarbon Receptor and the Nervous System. *International Journal of Molecular Sciences* , **2018**, 19,	6.3	49
73	Absence of the full-length breast cancer-associated gene-1 leads to increased expression of insulin-like growth factor signaling axis members. *Cancer Research*, **2006**, 66, 7151-7	10.1	43
72	Absence of full-length Brca1 sensitizes mice to oxidative stress and carcinogen-induced tumorigenesis in the esophagus and forestomach. *Carcinogenesis*, **2007**, 28, 1401-7	4.6	43
71	Effect of quercetin on paraoxonase 1 activity--studies in cultured cells, mice and humans. *Journal of Physiology and Pharmacology*, **2010**, 61, 99-105	2.1	43
70	Design, synthesis, and evaluation of novel imidazo[1,2-a][1,3,5]triazines and their derivatives as focal adhesion kinase inhibitors with antitumor activity. *Journal of Medicinal Chemistry*, **2015**, 58, 237-51	8.3	39
69	Linking Bisphenol S to Adverse Outcome Pathways Using a Combined Text Mining and Systems Biology Approach. *Environmental Health Perspectives*, **2019**, 127, 47005	8.4	38
68	AhR-deficiency as a cause of demyelinating disease and inflammation. *Scientific Reports*, **2017**, 7, 9794	4.9	38
67	Associations between persistent organic pollutants and risk of breast cancer metastasis. *Environment International*, **2019**, 132, 105028	12.9	35
66	Aryl hydrocarbon receptor-dependent upregulation of Cyp1b1 by TCDD and diesel exhaust particles in rat brain microvessels. *Fluids and Barriers of the CNS*, **2011**, 8, 23	7	35
65	NOD mice contain an elevated frequency of iNKT17 cells that exacerbate diabetes. *European Journal of Immunology*, **2011**, 41, 3574-85	6.1	32
64	Oculomotor deficits in aryl hydrocarbon receptor null mouse. *PLoS ONE*, **2013**, 8, e53520	3.7	31
63	Associations of plasma concentrations of dichlorodiphenyldichloroethylene and polychlorinated biphenyls with prostate cancer: a case-control study in Guadeloupe (French West Indies). *Environmental Health Perspectives*, **2015**, 123, 317-23	8.4	29
62	Applying a Virtual Reality Platform in Environmental Chemistry Education To Conduct a Field Trip to an Overseas Site. *Journal of Chemical Education*, **2019**, 96, 382-386	2.4	28
61	Environmental chemicals, breast cancer progression and drug resistance. *Environmental Health*, **2020**, 19, 117	6	28

60	Induction of the Ras activator Son of Sevenless 1 by environmental pollutants mediates their effects on cellular proliferation. *Biochemical Pharmacology*, **2011**, 81, 304-13	6	26
59	RNAi in mice: a promising approach to decipher gene functions in vivo. *Biochimie*, **2006**, 88, 637-43	4.6	26
58	Properties of overlapping EREs: synergistic activation of transcription and cooperative binding of ER. *Biochemistry*, **1998**, 37, 6023-32	3.2	26
57	Integration of the human exposome with the human genome to advance medicine. *Biochimie*, **2018**, 152, 155-158	4.6	25
56	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. *Toxicological Sciences*, **2010**, 115, 501-12	4.4	25
55	Deciphering Adverse Outcome Pathway Network Linked to Bisphenol F Using Text Mining and Systems Toxicology Approaches. *Toxicological Sciences*, **2020**, 173, 32-40	4.4	24
54	Dimethyl-Benz(a)anthracene: A mammary carcinogen and a neuroendocrine disruptor. *Biochimie Open*, **2016**, 3, 49-55	0	21
53	Structure-Based Design, Synthesis, and Characterization of the First Irreversible Inhibitor of Focal Adhesion Kinase. *ACS Chemical Biology*, **2018**, 13, 2067-2073	4.9	17
52	Persistent induction of cytochrome P4501A1 in human hepatoma cells by 3-methylcholanthrene: evidence for sustained transcriptional activation of the CYP1A1 promoter. *Journal of Pharmacology and Experimental Therapeutics*, **2010**, 333, 99-109	4.7	17
51	Involvement of Aryl hydrocarbon receptor in myelination and in human nerve sheath tumorigenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E1319-E1328	11.5	16
50	RNAi-based conditional gene knockdown in mice using a U6 promoter driven vector. *International Journal of Biological Sciences*, **2007**, 3, 91-9	11.2	16
49	Expression, Localization, and Activity of the Aryl Hydrocarbon Receptor in the Human Placenta. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	16
48	Identification of a new stilbene-derived inducer of paraoxonase 1 and ligand of the Aryl hydrocarbon Receptor. *Biochemical Pharmacology*, **2012**, 83, 627-32	6	14
47	Exposure to metal oxide nanoparticles administered at occupationally relevant doses induces pulmonary effects in mice. *Nanotoxicology*, **2016**, 10, 1535-1544	5.3	14
46	Integrative Strategy of Testing Systems for Identification of Endocrine Disruptors Inducing Metabolic Disorders-An Introduction to the OBERON Project. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	13
45	Citrulline reduces glyceroneogenesis and induces fatty acid release in visceral adipose tissue from overweight rats. *Molecular Nutrition and Food Research*, **2014**, 58, 2320-30	5.9	13
44	Cell migration and metastasis markers as targets of environmental pollutants and the Aryl hydrocarbon receptor. *Cell Adhesion and Migration*, **2010**, 4, 72-6	3.2	13
43	Associations between exposure to organochlorine chemicals and endometriosis in experimental studies: A systematic review protocol. *Environment International*, **2019**, 124, 400-407	12.9	12

42	Design, Synthesis, and Biological Evaluation of Covalent Inhibitors of Focal Adhesion Kinase (FAK) against Human Malignant Glioblastoma. *Journal of Medicinal Chemistry*, **2020**, 63, 12707-12724	8.3	12
41	AOP4EUpest: mapping of pesticides in adverse outcome pathways using a text mining tool. *Bioinformatics*, **2020**, 36, 4379-4381	7.2	11
40	Nuclear factor I/CCAAT box transcription factor trans-activating domain is a negative sensor of cellular stress. *Molecular Pharmacology*, **2000**, 58, 1239-46	4.3	11
39	Release and toxicity of adipose tissue-stored TCDD: Direct evidence from a xenografted fat model. *Environment International*, **2018**, 121, 1113-1120	12.9	11
38	Regulation of Aquaporin 3 Expression by the AhR Pathway Is Critical to Cell Migration. *Toxicological Sciences*, **2016**, 149, 158-66	4.4	10
37	Activation of the aryl hydrocarbon receptor by carcinogenic aromatic amines and modulatory effects of their N-acetylated metabolites. *Archives of Toxicology*, **2015**, 89, 2403-12	5.8	10
36	Characterization of GMO or glyphosate effects on the composition of maize grain and maize-based diet for rat feeding. *Metabolomics*, **2018**, 14, 36	4.7	8
35	A dual mixture of persistent organic pollutants modifies carbohydrate metabolism in the human hepatic cell line HepaRG. *Environmental Research*, **2019**, 178, 108628	7.9	8
34	Exposure to food additive mixtures in 106,000 French adults from the NutriNet-Sant cohort. *Scientific Reports*, **2021**, 11, 19680	4.9	8
33	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. *Toxicological Sciences*, **2019**, 168, 315-338	4.4	7
32	Uptake of Cerium Dioxide Nanoparticles and Impact on Viability, Differentiation and Functions of Primary Trophoblast Cells from Human Placenta. *Nanomaterials*, **2020**, 10,	5.4	6
31	Aryl hydrocarbon receptor and liver fibrosis. *Current Opinion in Toxicology*, **2018**, 8, 8-13	4.4	6
30	IGF signaling pathway as a selective target of familial breast cancer therapy. *Current Molecular Medicine*, **2008**, 8, 727-40	2.5	6
29	Mitochondrial Dysfunction as a Hallmark of Environmental Injury.. *Cells*, **2021**, 11,	7.9	6
28	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. *PLoS ONE*, **2015**, 10, e0142590	3.7	6
27	Identification of non-validated endocrine disrupting chemical characterization methods by screening of the literature using artificial intelligence and by database exploration. *Environment International*, **2021**, 154, 106574	12.9	6
26	Obesity II: Establishing Causal Links Between Chemical Exposures and Obesity.. *Biochemical Pharmacology*, **2022**, 115015	6	6
25	Endocrine disrupting chemicals and COVID-19 relationships: a computational systems biology approach **2020**,		5

24	Aryl Hydrocarbon Receptor and Its Diverse Ligands and Functions: An Exposome Receptor. *Annual Review of Pharmacology and Toxicology*, **2021**,	17.9	5
23	Aryl hydrocarbon receptor upregulates IL-1β expression in hCMEC/D3 human cerebral microvascular endothelial cells after TCDD exposure. *Toxicology in Vitro*, **2017**, 41, 200-204	3.6	4
22	First evidence of aryl hydrocarbon receptor as a druggable target in hypertension induced by chronic intermittent hypoxia. *Pharmacological Research*, **2020**, 159, 104869	10.2	4
21	Age-dependent vulnerability of the ovary to AhR-mediated TCDD action before puberty: Evidence from mouse models. *Chemosphere*, **2020**, 258, 127361	8.4	3
20	Aggressiveness and Metastatic Potential of Breast Cancer Cells Co-Cultured with Preadipocytes and Exposed to an Environmental Pollutant Dioxin: An and Zebrafish Study. *Environmental Health Perspectives*, **2021**, 129, 37002	8.4	3
19	Rat feeding trials: A comprehensive assessment of contaminants in both genetically modified maize and resulting pellets. *Food and Chemical Toxicology*, **2018**, 121, 573-582	4.7	3
18	Associations between Exposure to Organochlorine Chemicals and Endometriosis: A Systematic Review of Experimental Studies and Integration of Epidemiological Evidence. *Environmental Health Perspectives*, **2021**, 129, 76003	8.4	2
17	Human Placental NADPH Oxidase Mediates sFlt-1 and PlGF Secretion in Early Pregnancy: Exploration of the TGF-β1/p38 MAPK Pathways. *Antioxidants*, **2021**, 10,	7.1	2
16	The exposome and toxicology: a win-win collaboration. *Toxicological Sciences*, **2021**,	4.4	2
15	Adverse outcome pathway from activation of the AhR to breast cancer-related death. *Environment International*, **2022**, 165, 107323	12.9	2
14	Contaminants alimentaires et le risque de cancer. *Cahiers De Nutrition Et De Dietetique*, **2016**, 51, 104-110	0.2	1
13	Alimentation, pesticides et pathologies neurologiques. *Cahiers De Nutrition Et De Dietetique*, **2014**, 49, 74-80	0.2	1
12	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	0.2	1
11	Génotoxicité des métabolites des œstrogènes et cancers. *Medecine/Sciences*, **2002**, 18, 86-90		1
10	Impact des pesticides sur la santé humaine. *Pratiques En Nutrition*, **2018**, 14, 18-24	0	1
9	Les xénobiotiques, quel impact sur les maladies métaboliques ?. *Cahiers De Nutrition Et De Dietetique*, **2019**, 54, 286-293	0.2	1
8	Aryl Hydrocarbon Receptor and Cysteine Redox Dynamics Underlie (Mal)adaptive Mechanisms to Chronic Intermittent Hypoxia in Kidney Cortex. *Antioxidants*, **2021**, 10,	7.1	1
7	Lack of Skeletal Muscle Serotonin Impairs Physical Performance. *International Journal of Tryptophan Research*, **2021**, 14, 11786469211003109	5.6	1

6	Aryl Hydrocarbon Receptor-Dependent and -Independent Pathways Mediate Curcumin Anti-Aging Effects.. *Antioxidants*, **2022**, 11,	7.1	1
5	A forum where french-speaking faculty can exchange research on teaching. *Biochemistry and Molecular Biology Education*, **2019**, 47, 599-606	1.3	0
4	TCDD aggravates the formation of the atherosclerotic plaque in ApoE KO mice with a sexual dimorphic pattern.. *Biochimie*, **2022**, 195, 54-54	4.6	0
3	Identification of Modulators of the C.´elegans Aryl Hydrocarbon Receptor and Characterization of Transcriptomic and Metabolic AhR-1 Profiles. *Antioxidants*, **2022**, 11, 1030	7.1	0
2	Toxicologie et alimentation : nouveaux concepts. *Cahiers De Nutrition Et De Dietetique*, **2015**, 50, 6S36-6S41	0.1	
1	ARYL HYDROCARBON RECEPTOR ANTAGONISTS - A NEW ENTRY IN ANTIHYPERTENSIVE ARMAMENTARIUM OF OBSTRUCTIVE SLEEP APNEA?. *Journal of Hypertension*, **2021**, 39, e255-e256	1.9	