

# AgustÃ-n Lahoz

## List of Publications by Year in descending order

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84  
papers

3,697  
citations

126907

33  
h-index

138484

58  
g-index

86  
all docs

86  
docs citations

86  
times ranked

5799  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell Lines: A Tool for In Vitro Drug Metabolism Studies. <i>Current Drug Metabolism</i> , 2008, 9, 1-11.	1.2	259
2	Stable Expression, Activity, and Inducibility of Cytochromes P450 in Differentiated HepaRG Cells. <i>Drug Metabolism and Disposition</i> , 2010, 38, 516-525.	3.3	222
3	Targeted profiling of circulating and hepatic bile acids in human, mouse, and rat using a UPLC-MRM-MS-validated method. <i>Journal of Lipid Research</i> , 2012, 53, 2231-2241.	4.2	220
4	Unprecedented Blue Intrinsic Photoluminescence from Hyperbranched and Linear Polyethylenimines: Polymer Architectures and pH-Effects. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1404-1409.	3.9	172
5	Mammalian cell metabolomics: Experimental design and sample preparation. <i>Electrophoresis</i> , 2013, 34, 2762-2775.	2.4	163
6	A score model for the continuous grading of early allograft dysfunction severity. <i>Liver Transplantation</i> , 2015, 21, 38-46.	2.4	139
7	Potential Impact of Steatosis on Cytochrome P450 Enzymes of Human Hepatocytes Isolated from Fatty Liver Grafts. <i>Drug Metabolism and Disposition</i> , 2006, 34, 1556-1562.	3.3	125
8	A Comprehensive Untargeted Metabonomic Analysis of Human Steatotic Liver Tissue by RP and HILIC Chromatography Coupled to Mass Spectrometry Reveals Important Metabolic Alterations. <i>Journal of Proteome Research</i> , 2011, 10, 4825-4834.	3.7	114
9	Development of a Multiparametric Cell-based Protocol to Screen and Classify the Hepatotoxicity Potential of Drugs. <i>Toxicological Sciences</i> , 2012, 127, 187-198.	3.1	105
10	A small molecule G6PD inhibitor reveals immune dependence on pentose phosphate pathway. <i>Nature Chemical Biology</i> , 2020, 16, 731-739.	8.0	101
11	In Vitro Evaluation of Potential Hepatotoxicity Induced by Drugs. <i>Current Pharmaceutical Design</i> , 2010, 16, 1963-1977.	1.9	98
12	<i>Polypodium leucotomos</i> extract: Antioxidant activity and disposition. <i>Toxicology in Vitro</i> , 2006, 20, 464-471.	2.4	73
13	Prediagnostic Plasma Bile Acid Levels and Colon Cancer Risk: A Prospective Study. <i>Journal of the National Cancer Institute</i> , 2020, 112, 516-524.	6.3	69
14	A metabolomics cell-based approach for anticipating and investigating drug-induced liver injury. <i>Scientific Reports</i> , 2016, 6, 27239.	3.3	67
15	Human Embryonic Stem Cell Derived Hepatocyte-Like Cells as a Tool for In Vitro Hazard Assessment of Chemical Carcinogenicity. <i>Toxicological Sciences</i> , 2011, 124, 278-290.	3.1	66
16	Metabolomics discloses donor liver biomarkers associated with early allograft dysfunction. <i>Journal of Hepatology</i> , 2014, 61, 564-574.	3.7	63
17	Assessing the Metabolic Competence of Sandwich-Cultured Mouse Primary Hepatocytes. <i>Drug Metabolism and Disposition</i> , 2009, 37, 1305-1311.	3.3	62
18	Validated assay for studying activity profiles of human liver UGTs after drug exposure: inhibition and induction studies. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 2251-2263.	3.7	57

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19	Functional Assessment of the Quality of Human Hepatocyte Preparations for Cell Transplantation. <i>Cell Transplantation</i> , 2008, 17, 1211-1219.	2.5	54
20	Chemometric approaches to improve PLSDA model outcome for predicting human non-alcoholic fatty liver disease using UPLC-MS as a metabolic profiling tool. <i>Metabolomics</i> , 2012, 8, 86-98.	3.0	54
21	K-Ras and B-Raf oncogenes inhibit colon epithelial polarity establishment through up-regulation of c-myc. <i>Journal of Cell Biology</i> , 2012, 198, 185-194.	5.2	51
22	Cryopreservation of rat, dog and human hepatocytes: influence of preculture and cryoprotectants on recovery, cytochrome P450 activities and induction upon thawing. <i>Xenobiotica</i> , 2006, 36, 457-472.	1.1	49
23	Interactions of Polyphenols with the P450 System: Possible Implications on Human Therapeutics. <i>Mini-Reviews in Medicinal Chemistry</i> , 2008, 8, 97-106.	2.4	49
24	Photoreaction between 2-Benzoylthiophene and Phenol or Indole. <i>Journal of Organic Chemistry</i> , 2003, 68, 5104-5113.	3.2	46
25	CXCR7 Reactivates ERK Signaling to Promote Resistance to EGFR Kinase Inhibitors in NSCLC. <i>Cancer Research</i> , 2019, 79, 4439-4452.	0.9	44
26	Sequential Hepatogenic Transdifferentiation of Adipose Tissue-Derived Stem Cells: Relevance of Different Extracellular Signaling Molecules, Transcription Factors Involved, and Expression of New Key Marker Genes. <i>Cell Transplantation</i> , 2009, 18, 1319-1340.	2.5	41
27	Reviewing the metabolome coverage provided by LC-MS: Focus on sample preparation and chromatography-A tutorial. <i>Analytica Chimica Acta</i> , 2021, 1147, 38-55.	5.4	40
28	Branched-chain Amino Acids and Arginine Supplementation Attenuates Skeletal Muscle Proteolysis Induced by Moderate Exercise in Young Individuals. <i>International Journal of Sports Medicine</i> , 2007, 28, 531-538.	1.7	39
29	Strategies to In Vitro Assessment of Major Human CYP Enzyme Activities by Using Liquid Chromatography Tandem Mass Spectrometry. <i>Current Drug Metabolism</i> , 2008, 9, 12-19.	1.2	39
30	A simple transcriptomic signature able to predict drug-induced hepatic steatosis. <i>Archives of Toxicology</i> , 2014, 88, 967-982.	4.2	39
31	Enantioselective Discrimination in the Intramolecular Quenching of an Excited Aromatic Ketone by a Ground-State Phenol. <i>Journal of the American Chemical Society</i> , 1999, 121, 11569-11570.	13.7	38
32	Determination of major human cytochrome P450s activities in 96-well plates using liquid chromatography tandem mass spectrometry. <i>Toxicology in Vitro</i> , 2007, 21, 1247-1252.	2.4	37
33	Metabolomic Changes in the Rat Retina After Optic Nerve Crush. , 2013, 54, 4249.		37
34	Methods for analysis of specific DNA methylation status. <i>Methods</i> , 2021, 187, 3-12.	3.8	36
35	Functional Characterization of Hepatocytes for Cell Transplantation: Customized Cell Preparation for Each Receptor. <i>Cell Transplantation</i> , 2010, 19, 21-28.	2.5	35
36	LipidMS: An R Package for Lipid Annotation in Untargeted Liquid Chromatography-Data Independent Acquisition-Mass Spectrometry Lipidomics. <i>Analytical Chemistry</i> , 2019, 91, 836-845.	6.5	33

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37	In Vitro ADME Medium/High-Throughput Screening in Drug Preclinical Development. <i>Mini-Reviews in Medicinal Chemistry</i> , 2006, 6, 1053-1062.	2.4	32
38	LC-MS untargeted metabolomic analysis of drug-induced hepatotoxicity in HepG2 cells. <i>Electrophoresis</i> , 2015, 36, 2294-2302.	2.4	32
39	Extending metabolome coverage for untargeted metabolite profiling of adherent cultured hepatic cells. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1217-1230.	3.7	32
40	Evaluation of Drug-Metabolizing and Functional Competence of Human Hepatocytes Incubated under Hypothermia in Different Media for Clinical Infusion. <i>Cell Transplantation</i> , 2008, 17, 887-897.	2.5	31
41	Xenobiotic metabolism in differentiated human bronchial epithelial cells. <i>Archives of Toxicology</i> , 2017, 91, 2093-2105.	4.2	31
42	TRAIL-producing NK cells contribute to liver injury and related fibrogenesis in the context of GNMT deficiency. <i>Laboratory Investigation</i> , 2015, 95, 223-236.	3.7	29
43	Stereodifferentiation in the Decay of Triplets and Biradicals Involved in Intramolecular Hydrogen Transfer from Phenols or Indoles to $\text{I}^{\bullet}$ Aromatic Ketones. <i>Journal of Organic Chemistry</i> , 2004, 69, 374-381.	3.2	28
44	CCAAT/Enhancer-binding Protein 1 (C/EBP1) and Hepatocyte Nuclear Factor 4 (HNF4) Synergistically Cooperate with Constitutive Androstane Receptor to Transactivate the Human Cytochrome P450 2B6 (CYP2B6) Gene. <i>Journal of Biological Chemistry</i> , 2010, 285, 28457-28471.	3.4	28
45	Metabolite Formation Kinetics and Intrinsic Clearance of Phenacetin, Tolbutamide, Alprazolam, and Midazolam in Adenoviral Cytochrome P450-Transfected HepG2 Cells and Comparison with Hepatocytes and In Vivo. <i>Drug Metabolism and Disposition</i> , 2010, 38, 1449-1455.	3.3	27
46	Modulation of P450 enzymes by Cuban natural products rich in polyphenolic compounds in rat hepatocytes. <i>Chemico-Biological Interactions</i> , 2008, 172, 1-10.	4.0	26
47	A new <i>in vitro</i> approach for the simultaneous determination of phase I and phase II enzymatic activities of human hepatocyte preparations. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 240-244.	1.5	24
48	Assessment of Cytochrome P450 Induction in Human Hepatocytes Using the Cocktail Strategy Plus Liquid Chromatography Tandem Mass Spectrometry. <i>Drug Metabolism Letters</i> , 2008, 2, 205-209.	0.8	24
49	Regio- and stereo-selectivity in the intramolecular quenching of the excited benzoylthiophene chromophore by tryptophan. <i>Chemical Communications</i> , 2000, , 2257-2258.	4.1	22
50	Geometrical Effects on the Intramolecular Quenching of $\text{I}^{\bullet}$ Aromatic Ketones by Phenols and Indoles. <i>Journal of Organic Chemistry</i> , 2004, 69, 8618-8625.	3.2	22
51	Photobinding of Tiaprofenic Acid and Suprofen to Proteins and Cells: A Combined Study Using Radiolabeling, Antibodies and Laser Flash Photolysis of Model Bichromophores. <i>Photochemistry and Photobiology</i> , 1998, 68, 660-665.	2.5	21
52	Antibodies Directed to Drug Epitopes to Investigate the Structure of Drug-Protein Photoadducts. Recognition of a Common Photobound Substructure in Tiaprofenic Acid/Ketoprofen Cross-Photoreactivity. <i>Chemical Research in Toxicology</i> , 2001, 14, 1486-1491.	3.3	21
53	Calorie restriction improves metabolic state independently of gut microbiome composition: a randomized dietary intervention trial. <i>Genome Medicine</i> , 2022, 14, 30.	8.2	21
54	In vitro/in vivo screening of oxidative homeostasis and damage to DNA, protein, and lipids using UPLC/MS-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 5465-5476.	3.7	20

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55	Identification of Apoptotic Drugs: Multiparametric Evaluation in Cultured Hepatocytes. <i>Current Medicinal Chemistry</i> , 2008, 15, 2071-2085.	2.4	19
56	Interindividual variation in response to xenobiotic exposure established in precision-cut human liver slices. <i>Toxicology</i> , 2014, 323, 61-69.	4.2	19
57	Metabolomic Analysis of the Effect of Postnatal Hypoxia on the Retina in a Newly Born Piglet Model. <i>PLoS ONE</i> , 2013, 8, e66540.	2.5	19
58	A lipidomic cell-based assay for studying drug-induced phospholipidosis and steatosis. <i>Electrophoresis</i> , 2017, 38, 2331-2340.	2.4	18
59	Prediagnostic alterations in circulating bile acid profiles in the development of hepatocellular carcinoma. <i>International Journal of Cancer</i> , 2022, 150, 1255-1268.	5.1	18
60	Tumor Microenvironment-Derived Metabolites: A Guide to Find New Metabolic Therapeutic Targets and Biomarkers. <i>Cancers</i> , 2021, 13, 3230.	3.7	17
61	Exploring Mass Spectrometry Suitability to Examine Human Liver Graft Metabonomic Profiles. <i>Transplantation Proceedings</i> , 2010, 42, 2953-2958.	0.6	16
62	An in vitro tool to assess cytochrome P450 drug biotransformation-dependent cytotoxicity in engineered HepG2 cells generated by using adenoviral vectors. <i>Toxicology in Vitro</i> , 2013, 27, 1410-1415.	2.4	16
63	cGMP-Phosphodiesterase Inhibition Prevents Hypoxia-Induced Cell Death Activation in Porcine Retinal Explants. <i>PLoS ONE</i> , 2016, 11, e0166717.	2.5	16
64	Structure and Photochemical Behavior of the Cyclodextrin Inclusion Complexes of the Benzoylthiophene-Derived Drugs Tiaprofenic Acid (=5-Benzoyl- $\pm$ -methylthiophene-2-acetic Acid) and Suprofen (=1- $\pm$ -Methyl-4-(2-thienylcarbonyl)benzeneacetic Acid). <i>Helvetica Chimica Acta</i> , 2001, 84, 2452.	1.6	14
65	Identification of a novel synthetic lethal vulnerability in non-small cell lung cancer by co-targeting TMPRSS4 and DDR1. <i>Scientific Reports</i> , 2019, 9, 15400.	3.3	13
66	Endothelin-1-Mediated Drug Resistance in EGFR-Mutant Non-Small Cell Lung Carcinoma. <i>Cancer Research</i> , 2020, 80, 4224-4232.	0.9	12
67	Novel antihypertensive hexa- and heptapeptides with ACE-inhibiting properties: From the in vitro ACE assay to the spontaneously hypertensive rat. <i>Peptides</i> , 2011, 32, 1431-1438.	2.4	11
68	Isolation of Cross-Coupling Products in Model Studies on the Photochemical Modification of Proteins by Tiaprofenic Acid. <i>European Journal of Organic Chemistry</i> , 1999, 1999, 497-502.	2.4	9
69	Evaluation of Cytochrome P450 Activities in Human Hepatocytes In Vitro. <i>Methods in Molecular Biology</i> , 2012, 806, 87-97.	0.9	9
70	Sparse N-way partial least squares with R package sNPLS. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 179, 54-63.	3.5	9
71	Ultra-Performance Liquid Chromatography-Mass Spectrometry Targeted Profiling of Bile Acids: Application to Serum, Liver Tissue, and Cultured Cells of Different Species. <i>Methods in Molecular Biology</i> , 2014, 1198, 233-247.	0.9	8
72	Glutamine/glutamate metabolism rewiring in reprogrammed human hepatocyte-like cells. <i>Scientific Reports</i> , 2019, 9, 17978.	3.3	8

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73	Sparse N-way partial least squares by L1-penalization. Chemometrics and Intelligent Laboratory Systems, 2019, 185, 85-91.	3.5	7
74	c-MYC Triggers Lipid Remodelling During Early Somatic Cell Reprogramming to Pluripotency. Stem Cell Reviews and Reports, 2021, 17, 2245-2261.	3.8	6
75	A Combination of Transcriptomics and Metabolomics Uncovers Enhanced Bile Acid Biosynthesis in HepG2 Cells Expressing CCAAT/Enhancer-Binding Protein 2 (C/EBP2), Hepatocyte Nuclear Factor 4 (HNF4), and Constitutive Androstane Receptor (CAR). Journal of Proteome Research, 2013, 12, 2732-2741.	3.7	5
76	Early radiological response as predictor of overall survival in non-small cell lung cancer (NSCLC) patients with epidermal growth factor receptor mutations. Journal of Thoracic Disease, 2018, 10, 1386-1393.	1.4	4
77	The Potential Role of Efficacy and Safety Evaluation of N-Acetylcysteine Administration During Liver Procurement. The NAC-400 Single Center Randomized Controlled Trial. Transplantation, 2021, 105, 2245-2254.	1.0	4
78	Mild Muscle Mitochondrial Fusion Distress Extends Drosophila Lifespan through an Early and Systemic Metabolome Reorganization. International Journal of Molecular Sciences, 2021, 22, 12133.	4.1	4
79	Interindividual variation in response to xenobiotic exposure established in precision-cut human liver slices. Toxicology Letters, 2013, 221, S152.	0.8	3
80	RpeakChrom: Novel R package for the automated characterization and optimization of column efficiency in high-performance liquid chromatography analysis. Electrophoresis, 2017, 38, 2985-2995.	2.4	3
81	Liver Transplantation Biomarkers in the Metabolomics Era. Biomarkers in Disease, 2017, , 99-128.	0.1	2
82	Reply. Liver Transplantation, 2016, 22, 861-861.	2.4	0
83	Liver Transplantation Biomarkers in the Metabolomics Era. Biomarkers in Disease, 2016, , 1-29.	0.1	0
84	Abstract LB-099: Metabolic vulnerabilities of mesenchymal-like EGFR-mutant NSCLC cells with acquired resistance to tyrosine kinase inhibitors. , 2018, , .		0