Natalie Z Homer

List of Publications by Year
in descending order

76 papers	1,728 citations	361045 20 h-index	315357 38 g-index
79 all docs	79 docs citations	79 times ranked	2475 citing authors

#	Article	IF	Citations
1	Increased In Vivo Regeneration of Cortisol in Adipose Tissue in Human Obesity and Effects of the 11Â-Hydroxysteroid Dehydrogenase Type 1 Inhibitor Carbenoxolone. Diabetes, 2005, 54, 872-879.	0.3	179
2	Kynurenine-3-monooxygenase inhibition prevents multiple organ failure in rodent models of acute pancreatitis. Nature Medicine, 2016, 22, 202-209.	15.2	124
3	Prolonged exposure to acetaminophen reduces testosterone production by the human fetal testis in a xenograft model. Science Translational Medicine, 2015, 7, 288ra80.	5.8	107
4	Transfer and Metabolism of Cortisol by the Isolated Perfused Human Placenta. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 640-648.	1.8	74
5	Dietary Macronutrient Content Alters Cortisol Metabolism Independently of Body Weight Changes in Obese Men. Journal of Clinical Endocrinology and Metabolism, 2007, 92, 4480-4484.	1.8	71
6	Derivatization of estrogens enhances specificity and sensitivity of analysis of human plasma and serum by liquid chromatography tandem mass spectrometry. Talanta, 2016, 151, 148-156.	2.9	60
7	Acute inhibition of NCC does not activate distal electrogenic Na⁺reabsorption or kaliuresis. American Journal of Physiology - Renal Physiology, 2014, 306, F457-F467.	1.3	56
8	Current strategies for quantification of estrogens in clinical research. Journal of Steroid Biochemistry and Molecular Biology, 2019, 192, 105373.	1.2	55
9	Acute In Vivo Regulation of 11Î²-Hydroxysteroid Dehydrogenase Type 1 Activity by Insulin and Intralipid Infusions in Humans. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 4682-4688.	1.8	52
10	Human Hepatic Hepa<scp>RG</scp> Cells Maintain an Organotypic Phenotype with High Intrinsic <scp>CYP</scp>450 Activity/Metabolism and Significantly Outperform Standard HepG2/C3A Cells for Pharmaceutical and Therapeutic Applications. Basic and Clinical Pharmacology and Toxicology, 2017, 120, 30-37.	1.2	49
11	ABCC1 confers tissue-specific sensitivity to cortisol versus corticosterone: A rationale for safer glucocorticoid replacement therapy. Science Translational Medicine, 2016, 8, 352ra109.	5.8	45
12	Effects of Peroxisome Proliferator-Activated Receptor-Î± and -Î³ Agonists on 11Î²-Hydroxysteroid Dehydrogenase Type 1 in Subcutaneous Adipose Tissue in Men. Journal of Clinical Endocrinology and Metabolism, 2007, 92, 1848-1856.	1.8	40
13	Aromatase Inhibition Reduces Insulin Sensitivity in Healthy Men. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 2040-2046.	1.8	38
14	Derivatization enhances analysis of estrogens and their bioactive metabolites in human plasma by liquid chromatography tandem mass spectrometry. Analytica Chimica Acta, 2019, 1054, 84-94.	2.6	33
15	Androgens modulate glucocorticoid receptor activity in adipose tissue and liver. Journal of Endocrinology, 2019, 240, 51-63.	1.2	30
16	Ibuprofen is deleterious for the development of first trimester human fetal ovary ex vivo. Human Reproduction, 2018, 33, 482-493.	0.4	29
17	Gas chromatography tandem mass spectrometry offers advantages for urinary steroids analysis. Analytical Biochemistry, 2017, 538, 34-37.	1.1	28
18	Increased levels of 3-hydroxykynurenine parallel disease severity in human acute pancreatitis. Scientific Reports, 2016, 6, 33951.	1.6	25

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19	Circulating acetaminophen metabolites are toxicokinetic biomarkers of acute liver injury. Clinical Pharmacology and Therapeutics, 2017, 101, 531-540.	2.3	24
20	Estrogen Signaling and Portopulmonary Hypertension: The Pulmonary Vascular Complications of Liver Disease Study (PVCLD2). Hepatology, 2021, 73, 726-737.	3.6	24
21	Bacterial expression of human kynurenine 3-monooxygenase: Solubility, activity, purification. Protein Expression and Purification, 2014, 95, 96-103.	0.6	23
22	Higher Insulin Resistance and Adiposity in Postmenopausal Women With Breast Cancer Treated With Aromatase Inhibitors. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 3670-3678.	1.8	23
23	The interaction of sodium chlorite with phospholipids and glutathione: a comparison of effects in vitro, in mammalian and in microbial cells. Archives of Biochemistry and Biophysics, 2003, 410, 121-133.	1.4	21
24	Pulsatility of glucocorticoid hormones in pregnancy: Changes with gestation and obesity. Clinical Endocrinology, 2018, 88, 592-600.	1.2	21
25	Positive adaptation of HPA axis function in women during 44 weeks of infantry-based military training. Psychoneuroendocrinology, 2019, 110, 104432.	1.3	21
26	Vitamin D Metabolism and Profiling in Veterinary Species. Metabolites, 2020, 10, 371.	1.3	21
27	Vitamin D status is seasonally stable in northern European dogs. Veterinary Clinical Pathology, 2020, 49, 279-291.	0.3	21
28	Simultaneous quantification of estrogens and glucocorticoids in human adipose tissue by liquid-chromatography-tandem mass spectrometry. Journal of Steroid Biochemistry and Molecular Biology, 2019, 195, 105476.	1.2	19
29	Volatomic analysis identifies compounds that can stratify non-alcoholic fatty liver disease. JHEP Reports, 2020, 2, 100137.	2.6	19
30	Simultaneous pharmacokinetic and pharmacodynamic analysis of 5Î±-reductase inhibitors and androgens by liquid chromatography tandem mass spectrometry. Talanta, 2015, 131, 728-735.	2.9	18
31	11Î²-hydroxysteroid dehydrogenase-1 deficiency alters brain energy metabolism in acute systemic inflammation. Brain, Behavior, and Immunity, 2018, 69, 223-234.	2.0	18
32	Dysregulation of Cortisol Metabolism in Equine Pituitary Pars Intermedia Dysfunction. Endocrinology, 2018, 159, 3791-3800.	1.4	18
33	Glucocorticoids are lower at delivery in maternal, but not cord blood of obese pregnancies. Scientific Reports, 2017, 7, 10263.	1.6	17
34	Carbonyl reductase 1 catalyzes 20Î²-reduction of glucocorticoids, modulating receptor activation and metabolic complications of obesity. Scientific Reports, 2017, 7, 10633.	1.6	15
35	Development and application of a LCâ€“MS/MS assay for simultaneous analysis of 25-hydroxyvitamin-D and 3-epi-25-hydroxyvitamin-D metabolites in canine serum. Journal of Steroid Biochemistry and Molecular Biology, 2020, 199, 105598.	1.2	15
36	Selected Ion Flow Tube-Mass Spectrometry (SIFT-MS) as an Alternative to Gas Chromatography/Mass Spectrometry (GC/MS) for the Analysis of Cyclohexanone and Cyclohexanol in Plasma. ACS Omega, 2021, 6, 32818-32822.	1.6	14

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37	Reproductive and metabolic adaptation to multistressor training in women. American Journal of Physiology - Endocrinology and Metabolism, 2021, 321, E281-E291.	1.8	13
38	Acetaminophen metabolism after liver resection: A prospective caseâ€“control study. Digestive and Liver Disease, 2015, 47, 1039-1046.	0.4	12
39	Metformin Increases Cortisol Regeneration by 11Î²HSD1 in Obese Men With and Without Type 2 Diabetes Mellitus. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3787-3793.	1.8	12
40	Dimethylsulfoxide oxidizes glutathione in vitro and in human erythrocytes: Kinetic analysis by 1H NMR. Cryobiology, 2005, 50, 317-324.	0.3	11
41	Estrogens and Glucocorticoids in Mammary Adipose Tissue: Relationships with Body Mass Index and Breast Cancer Features. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e1504-e1516.	1.8	11
42	Estrogen metabolites in a small cohort of patients with idiopathic pulmonary arterial hypertension. Pulmonary Circulation, 2020, 10, 1-5.	0.8	11
43	Antenatal dexamethasone treatment transiently alters diastolic function in the mouse fetal heart. Journal of Endocrinology, 2019, 241, 279-292.	1.2	11
44	Mass spectrometry: Future opportunities for profiling and imaging steroids and steroid metabolites. Current Opinion in Endocrine and Metabolic Research, 2020, 15, 71-78.	0.6	10
45	Tight junction proteins in the small intestine and prefrontal cortex of female rats exposed to stress of chronic isolation starting early in life. Neurogastroenterology and Motility, 2021, 33, e14084.	1.6	10
46	Vitamin D insufficiency in COVID-19 and influenza A, and critical illness survivors: a cross-sectional study. BMJ Open, 2021, 11, e055435.	0.8	10
47	Saliva cortisol diurnal variation and stress responses in term and preterm infants. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2022, 107, 558-564.	1.4	10
48	A Magnetic Beadâ€“Based Ligand Binding Assay to Facilitate Human Kynurenine 3-Monooxygenase Drug Discovery. Journal of Biomolecular Screening, 2015, 20, 292-298.	2.6	9
49	Co-treatments to Boost IDO Activity and Inhibit Production of Downstream Catabolites Induce Durable Suppression of Experimental Autoimmune Encephalomyelitis. Frontiers in Immunology, 2020, 11, 1256.	2.2	9
50	Dimethyl fumarate reduces hepatocyte senescence following paracetamol exposure. IScience, 2021, 24, 102552.	1.9	9
51	The hepatic compensatory response to elevated systemic sulfide promotes diabetes. Cell Reports, 2021, 37, 109958.	2.9	9
52	Effects of Obesity and Insulin on Tissue-Specific Recycling Between Cortisol and Cortisone in Men. Journal of Clinical Endocrinology and Metabolism, 2021, 106, e1206-e1220.	1.8	8
53	Derivatization with 2-hydrazino-1-methylpyridine enhances sensitivity of analysis of 5Î±-dihydrotestosterone in human plasma by liquid chromatography tandem mass spectrometry. Journal of Chromatography A, 2021, 1640, 461933.	1.8	8
54	Increased Adipose Tissue Indices of Androgen Catabolism and Aromatization in Women With Metabolic Dysfunction. Journal of Clinical Endocrinology and Metabolism, 2022, 107, e3330-e3342.	1.8	8

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55	Preparation of 99â€‰mTc-MAG3: the effect on radiochemical purity of using sodium chloride injection from plastic ampoules that have been exposed to light. Nuclear Medicine Communications, 2008, 29, 649-653.	0.5	7
56	Quantitative analysis of RU38486 (mifepristone) by HPLC triple quadrupole mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 497-501.	1.2	7
57	Detecting drug-target binding in cells using fluorescence-activated cell sorting coupled with mass spectrometry analysis. Methods and Applications in Fluorescence, 2018, 6, 015002.	1.1	7
58	Fertility Preservation in Childhood Cancer: Endocrine Activity in Prepubertal Human Testis Xenografts Exposed to a Pubertal Hormone Environment. Cancers, 2020, 12, 2830.	1.7	7
59	ABCC1 modulates negative feedback control of the hypothalamic-pituitary-adrenal axis in vivo in humans. Metabolism: Clinical and Experimental, 2022, 128, 155118.	1.5	7
60	Measurement of tamsulosin in human serum by liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 930, 121-128.	1.2	6
61	Emotion regulation and cortisol response to the still-face procedure in preterm and full-term infants. Psychoneuroendocrinology, 2022, 141, 105760.	1.3	6
62	Mass spectrometry and its evolving role in assessing tissue specific steroid metabolism. Biochemical Society Transactions, 2016, 44, 645-651.	1.6	5
63	The depth of anaesthesia associated with the administration of isoflurane 2.5% during cardiopulmonary bypass. Perfusion (United Kingdom), 2019, 34, 392-398.	0.5	5
64	Data for analysis of catechol estrogen metabolites in humanÂplasma by liquid chromatography tandem mass spectrometry. Data in Brief, 2019, 23, 103740.	0.5	5
65	Quantitative analysis of 11â€dehydrocorticosterone and corticosterone for preclinical studies by liquid chromatography/triple quadrupole mass spectrometry. Rapid Communications in Mass Spectrometry, 2020, 34, e8610.	0.7	5
66	Paracetamol metabolite concentrations following low risk overdose treated with an abbreviated 12-h versus 20-h acetylcysteine infusion. Clinical Toxicology, 2019, 57, 312-317.	0.8	4
67	An international survey of Training Needs and Career Paths of Core Facility Staff. Journal of Biomolecular Techniques, 2021, 32, 1-9.	0.8	4
68	Carbonyl reductase 1 amplifies glucocorticoid action in adipose tissue and impairs glucose tolerance in lean mice. Molecular Metabolism, 2021, 48, 101225.	3.0	4
69	Non-uniform relationship between salt status and aldosterone activity in patients with chronic kidney disease. Clinical Science, 2018, 132, 285-294.	1.8	3
70	A Comparison of the Arterial Blood Concentration of Isoflurane During Cardiopulmonary Bypass Between 2 Polypropylene Oxygenators. Journal of Cardiothoracic and Vascular Anesthesia, 2020, 34, 1184-1190.	0.6	3
71	Glucocorticoid metabolism in critically ill dogs (Canis lupus familiaris). Domestic Animal Endocrinology, 2020, 72, 106437.	0.8	3
72	Corticotroph isolation from <scp>Pomcâ€‹eGFP</scp> mice reveals sustained transcriptional dysregulation characterising a mouse model of glucocorticoidâ€induced suppression of the <scp>hypothalamusâ€“pituitaryâ€“adrenal</scp> axis. Journal of Neuroendocrinology, 2022, 34, .	1.2	3

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73	Ibuprofen Is Deleterious for the Development of First-Trimester Human Fetal Ovary Ex Vivo. Obstetrical and Gynecological Survey, 2018, 73, 439-440.	0.2	2
74	Synaptic signalling in a network of dopamine neurons: what prevents proper intercellular crosstalk?. FEBS Letters, 2020, 594, 3272-3292.	1.3	2
75	Inhibition of 11Î²-HSD1 Ameliorates Cognition and Molecular Detrimental Changes after Chronic Mild Stress in SAMP8 Mice. Pharmaceuticals, 2021, 14, 1040.	1.7	2
76	Glucocorticoid metabolism and the action of 11 beta-hydroxysteroid dehydrogenase 2 in canine congestive heart failure. Veterinary Journal, 2020, 258, 105456.	0.6	0