Manuel C Peitsch

List of Publications by Year
in descending order

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317 papers	30,785 citations	23879 60 h-index	5481 169 g-index
337 all docs	337 docs citations	337 times ranked	38270 citing authors

#	Article	IF	Citations
1	SWISS-MODEL and the Swiss-Pdb Viewer: An environment for comparative protein modeling. Electrophoresis, 1997, 18, 2714-2723.	1.3	10,267
2	SWISS-MODEL: an automated protein homology-modeling server. Nucleic Acids Research, 2003, 31, 3381-3385.	6.5	4,722
3	Automated comparative protein structure modeling with SWISSâ€MODEL and Swissâ€PdbViewer: A historical perspective. Electrophoresis, 2009, 30, S162-73.	1.3	1,574
4	ProMod and Swiss-Model: Internet-based tools for automated comparative protein modelling. Biochemical Society Transactions, 1996, 24, 274-279.	1.6	947
5	Clinical spectrum of X-linked hyper-IgM syndrome. Journal of Pediatrics, 1997, 131, 47-54.	0.9	604
6	The tobacco genome sequence and its comparison with those of tomato and potato. Nature Communications, 2014, 5, 3833.	5.8	503
7	Protein modelling for all. Trends in Biochemical Sciences, 1999, 24, 364-367.	3.7	452
8	Systems Toxicology: From Basic Research to Risk Assessment. Chemical Research in Toxicology, 2014, 27, 314-329.	1.7	287
9	A genome-based approach for the identification of essential bacterial genes. Nature Biotechnology, 1998, 16, 851-856.	9.4	259
10	Cloning of the TMPRSS2 Gene, Which Encodes a Novel Serine Protease with Transmembrane, LDLRA, and SRCR Domains and Maps to 21q22.3. Genomics, 1997, 44, 309-320.	1.3	217
11	Evaluation of the Tobacco Heating System 2.2. Part 1: Description of the system and the scientific assessment program. Regulatory Toxicology and Pharmacology, 2016, 81, S17-S26.	1.3	204
12	Reference genomes and transcriptomes of Nicotiana sylvestris and Nicotiana tomentosiformis. Genome Biology, 2013, 14, R60.	3.8	192
13	Characterization of Fas (Apo-1, CD95)-Fas Ligand Interaction. Journal of Biological Chemistry, 1997, 272, 18827-18833.	1.6	175
14	Clusterin (complement lysis inhibitor) forms a high density lipoprotein complex with apolipoprotein A-I in human plasma. Journal of Biological Chemistry, 1991, 266, 11030-6.	1.6	171
15	A 3-D model for the CD40 ligand predicts that it is a compact trimer similar to the tumor necrosis factors. International Immunology, 1993, 5, 233-238.	1.8	169
16	The apoptosis endonucleases: cleaning up after cell death?. Trends in Cell Biology, 1994, 4, 37-41.	3.6	161
17	Selectivity and antagonism of chemokine receptors. Journal of Leukocyte Biology, 1996, 59, 53-60.	1.5	156
18	Characterization of the endogenous deoxyribonuclease involved in nuclear DNA degradation during apoptosis (programmed cell death). EMBO Journal, 1993, 12, 371-7.	3.5	148

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19	New Insulin-Like Proteins with Atypical Disulfide Bond Pattern Characterized in Caenorhabditis elegans by Comparative Sequence Analysis and Homologyâ€‰Modeling. Genome Research, 1998, 8, 348-353.	2.4	138
20	The Apoeâ^'/â^' mouse model: a suitable model to study cardiovascular and respiratory diseases in the context of cigarette smoke exposure and harm reduction. Journal of Translational Medicine, 2016, 14, 146.	1.8	137
21	Human bronchial epithelial cells exposed in vitro to cigarette smoke at the air-liquid interface resemble bronchial epithelium from human smokers. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 304, L489-L503.	1.3	133
22	A lung/liver-on-a-chip platform for acute and chronic toxicity studies. Lab on A Chip, 2018, 18, 3814-3829.	3.1	132
23	Probing the Structure and Function of the Tachykinin Neurokinin-2 Receptor through Biosynthetic Incorporation of Fluorescent Amino Acids at Specific Sites. Journal of Biological Chemistry, 1996, 271, 19991-19998.	1.6	124
24	Perforin and Granzymes: Crucial Effector Molecules in Cytolytic T Lymphocyte and Natural Killer Cell-Mediated Cytotoxicity. Current Topics in Microbiology and Immunology, 1995, 198, 1-24.	0.7	124
25	The Swiss-3DImage collection and PDB-Browser on the World-Wide Web. Trends in Biochemical Sciences, 1995, 20, 82-84.	3.7	123
26	DNA fragmentation during apoptosis is caused by frequent single-strand cuts. Nucleic Acids Research, 1993, 21, 4206-4209.	6.5	121
27	Identification of mutations in cystatin B, the gene responsible for the Unverricht-Lundborg type of progressive myoclonus epilepsy (EPM1). American Journal of Human Genetics, 1997, 60, 342-51.	2.6	117
28	Protein structure computing in the genomic era. Research in Microbiology, 2000, 151, 107-112.	1.0	111
29	Phosphorylcholine acts as a Ca2+-dependent receptor molecule for lymphocyte perforin. Nature, 1989, 337, 272-274.	13.7	110
30	Strengths and limitations of microarray-based phenotype prediction: lessons learned from the IMPROVER Diagnostic Signature Challenge. Bioinformatics, 2013, 29, 2892-2899.	1.8	108
31	Annotated Draft Genomic Sequence from aStreptococcus pneumoniaeType 19F Clinical Isolate. Microbial Drug Resistance, 2001, 7, 99-125.	0.9	98
32	The application of systems biology to drug discovery. Current Opinion in Chemical Biology, 2006, 10, 294-302.	2.8	98
33	Quantification of biological network perturbations for mechanistic insight and diagnostics using two-layer causal models. BMC Bioinformatics, 2014, 15, 238.	1.2	97
34	A network-based approach to quantifying the impact of biologically active substances. Drug Discovery Today, 2012, 17, 413-418.	3.2	95
35	Toxicity of the main electronic cigarette components, propylene glycol, glycerin, and nicotine, in Sprague-Dawley rats in a 90-day OECD inhalation study complemented by molecular endpoints. Food and Chemical Toxicology, 2017, 109, 315-332.	1.8	94
36	Systems Toxicology: Real World Applications and Opportunities. Chemical Research in Toxicology, 2017, 30, 870-882.	1.7	93

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37	Assessment of network perturbation amplitudes by applying high-throughput data to causal biological networks. BMC Systems Biology, 2012, 6, 54.	3.0	92
38	Causal biological network database: a comprehensive platform of causal biological network models focused on the pulmonary and vascular systems. Database: the Journal of Biological Databases and Curation, 2015, 2015, bav030.	1.4	89
39	A New Function for an Old Enzyme: The Role of DNase I in Apoptosis. Current Topics in Microbiology and Immunology, 1995, 198, 161-174.	0.7	89
40	CD40Lbase: a database of CD40L gene mutations causing X-linked hyper-IgM syndrome. Trends in Immunology, 1996, 17, 511-516.	7.5	88
41	A 7-month cigarette smoke inhalation study in C57BL/6 mice demonstrates reduced lung inflammation and emphysema following smoking cessation or aerosol exposure from a prototypic modified risk tobacco product. Food and Chemical Toxicology, 2015, 80, 328-345.	1.8	88
42	Verification of systems biology research in the age of collaborative competition. Nature Biotechnology, 2011, 29, 811-815.	9.4	83
43	An 8-Month Systems Toxicology Inhalation/Cessation Study in Apoe^{â^'/â^'}Mice to Investigate Cardiovascular and Respiratory Exposure Effects of a Candidate Modified Risk Tobacco Product, THS 2.2, Compared With Conventional Cigarettes. Toxicological Sciences, 2016, 149, 411-432.	1.4	81
44	WASPbase: a database of WAS- and XLT-causing mutations. Trends in Immunology, 1996, 17, 496-502.	7.5	78
45	A computable cellular stress network model for non-diseased pulmonary and cardiovascular tissue. BMC Systems Biology, 2011, 5, 168.	3.0	76
46	Acidic residues in extracellular loops of the human Y1 neuropeptide Y receptor are essential for ligand binding. Journal of Biological Chemistry, 1994, 269, 2863-9.	1.6	76
47	Localization and molecular modelling of the membrane-inserted domain of the ninth component of human complement and perforin. Molecular Immunology, 1990, 27, 589-602.	1.0	75
48	The chemokine information source: identification and characterization of novel chemokines using the WorldWideWeb and Expressed Sequence Tag Databases. Journal of Leukocyte Biology, 1997, 61, 545-550.	1.5	75
49	CD40lbase: a database of CD40L gene mutations causing X-linked hyper-IgM syndrome. Trends in Immunology, 1996, 17, 511-6.	7.5	75
50	Text mining for biology - the way forward: opinions from leading scientists. Genome Biology, 2008, 9, S7.	13.9	74
51	Alterations in the sputum proteome and transcriptome in smokers and early-stage COPD subjects. Journal of Proteomics, 2015, 128, 306-320.	1.2	72
52	Comparative molecular modelling of the Fas-ligand and other members of the TNF family. Molecular Immunology, 1995, 32, 761-772.	1.0	71
53	Evaluation of the Tobacco Heating System 2.2. Part 4: 90-day OECD 413 rat inhalation study with systems toxicology endpoints demonstrates reduced exposure effects compared with cigarette smoke. Regulatory Toxicology and Pharmacology, 2016, 81, S59-S81.	1.3	70
54	A framework for in vitro systems toxicology assessment of e-liquids. Toxicology Mechanisms and Methods, 2016, 26, 392-416.	1.3	67

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55	Characterization of the VitrocellÂ® 24/48 in vitroaerosol exposure system using mainstream cigarette smoke. Chemistry Central Journal, 2014, 8, 62.	2.6	66
56	A 28-day rat inhalation study with an integrated molecular toxicology endpoint demonstrates reduced exposure effects for a prototypic modified risk tobacco product compared with conventional cigarettes. Food and Chemical Toxicology, 2014, 68, 204-217.	1.8	66
57	Characterization of the non-functional Fas ligand of gld mice. International Immunology, 1995, 7, 1381-1386.	1.8	64
58	Construction of a computable cell proliferation network focused on non-diseased lung cells. BMC Systems Biology, 2011, 5, 105.	3.0	64
59	The SIB Swiss Institute of Bioinformaticsâ€™ resources: focus on curated databases. Nucleic Acids Research, 2016, 44, D27-D37.	6.5	64
60	Effects of Switching to a Heat-Not-Burn Tobacco Product on Biologically Relevant Biomarkers to Assess a Candidate Modified Risk Tobacco Product: A Randomized Trial. Cancer Epidemiology Biomarkers and Prevention, 2019, 28, 1934-1943.	1.1	64
61	Genomic impact of cigarette smoke, with application to three smoking-related diseases. Critical Reviews in Toxicology, 2012, 42, 877-889.	1.9	63
62	Case study: the role of mechanistic network models in systems toxicology. Drug Discovery Today, 2014, 19, 183-192.	3.2	63
63	Interrogating the microbiome: experimental and computational considerations in support of study reproducibility. Drug Discovery Today, 2018, 23, 1644-1657.	3.2	63
64	Distribution of deoxyribonuclease I in rat tissues and its correlation to cellular turnover and apoptosis (programmed cell death). European Journal of Cell Biology, 1994, 64, 200-10.	1.6	62
65	Quantitative assessment of biological impact using transcriptomic data and mechanistic network models. Toxicology and Applied Pharmacology, 2013, 272, 863-878.	1.3	61
66	Mitochondria as a possible target for nicotine action. Journal of Bioenergetics and Biomembranes, 2019, 51, 259-276.	1.0	61
67	Assembly of macromolecular pores by immune defense systems. Current Opinion in Cell Biology, 1991, 3, 710-716.	2.6	60
68	In Vitro Systems Toxicology Assessment of a Candidate Modified Risk Tobacco Product Shows Reduced Toxicity Compared to That of a Conventional Cigarette. Chemical Research in Toxicology, 2016, 29, 3-18.	1.7	60
69	Large-scale protein modelling and integration with the SWISS-PROT and SWISS-2DPAGE databases: The example ofEscherichia coli. Electrophoresis, 1997, 18, 498-501.	1.3	59
70	Identification of Key Charged Residues of Human Interleukin-5 in Receptor Binding and Cellular Activation. Journal of Biological Chemistry, 1995, 270, 15762-15769.	1.6	58
71	Characterisation of Macrophage Inflammatory Protein-5/Human CC Cytokine-2, A Member of the Macrophage-Inflammatory-Protein Family of Chemokines. FEBS Journal, 1997, 248, 507-515.	0.2	58
72	Construction of a Computable Network Model for DNA Damage, Autophagy, Cell Death, and Senescence. Bioinformatics and Biology Insights, 2013, 7, BBI.S11154.	1.0	58

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73	Understanding the limits of animal models as predictors of human biology: lessons learned from the sbv IMPROVER Species Translation Challenge. Bioinformatics, 2015, 31, 471-483.	1.8	57
74	The first lipocalin with enzymatic activity. Trends in Biochemical Sciences, 1991, 16, 363.	3.7	56
75	A Modular Cell-Type Focused Inflammatory Process Network Model for Non-Diseased Pulmonary Tissue. Bioinformatics and Biology Insights, 2013, 7, BBI.S11509.	1.0	55
76	Overexpression of deoxyribonuclease I (DNase I) transfected into COS-cells: its distribution during apoptotic cell death. European Journal of Cell Biology, 1993, 62, 397-405.	1.6	55
77	Amino acid sequence of the Î± subunit and computer modelling of the Î± and Î² subunits of echicetin from the venom of Echis carinatus (saw-scaled viper). Biochemical Journal, 1997, 323, 533-537.	1.7	53
78	Evaluation of the Tobacco Heating System 2.2. Part 6: 90-day OECD 413 rat inhalation study with systems toxicology endpoints demonstrates reduced exposure effects of a mentholated version compared with mentholated and non-mentholated cigarette smoke. Regulatory Toxicology and Pharmacology, 2016, 81, S93-S122.	1.3	52
79	Interaction of peptides derived from the Fas ligand with the Fyn-SH3 domain. FEBS Letters, 1995, 373, 265-268.	1.3	51
80	Systems Approaches Evaluating the Perturbation of Xenobiotic Metabolism in Response to Cigarette Smoke Exposure in Nasal and Bronchial Tissues. BioMed Research International, 2013, 2013, 1-14.	0.9	51
81	Proteomics for systems toxicology. Computational and Structural Biotechnology Journal, 2014, 11, 73-90.	1.9	51
82	Impact Assessment of Cigarette Smoke Exposure on Organotypic Bronchial Epithelial Tissue Cultures: A Comparison of Mono-Culture and Coculture Model Containing Fibroblasts. Toxicological Sciences, 2015, 147, 207-221.	1.4	51
83	Mutational analysis of polymeric immunoglobulin receptor/ligand interactions. Evidence for the involvement of multiple complementarity determining region (CDR)-like loops in receptor domain I. Journal of Biological Chemistry, 1994, 269, 31620-5.	1.6	51
84	Structural analysis of TCR-ligand interactions studied on H-2Kd-restricted cloned CTL specific for a photoreactive peptide derivative. Immunity, 1995, 3, 51-63.	6.6	50
85	Role of a hydrophobic pocket of the human Y1 neuropeptide Y receptor in ligand binding. Molecular and Cellular Endocrinology, 1995, 112, 215-222.	1.6	50
86	Modulation of atherogenic lipidome by cigarette smoke in apolipoprotein E-deficient mice. Atherosclerosis, 2012, 225, 328-334.	0.4	50
87	In vitrosystems toxicology approach to investigate the effects of repeated cigarette smoke exposure on human buccal and gingival organotypic epithelial tissue cultures. Toxicology Mechanisms and Methods, 2014, 24, 470-487.	1.3	50
88	A Pathogen-specific Epitope Inserted into Recombinant Secretory Immunoglobulin A Is Immunogenic by the Oral Route. Journal of Biological Chemistry, 1996, 271, 33670-33677.	1.6	49
89	Automated protein modelling - the proteome in 3D. Pharmacogenomics, 2000, 1, 257-266.	0.6	49
90	Industrial methodology for process verification in research (IMPROVER): toward systems biology verification. Bioinformatics, 2012, 28, 1193-1201.	1.8	49

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91	Systems Toxicology Assessment of the Biological Impact of a Candidate Modified Risk Tobacco Product on Human Organotypic Oral Epithelial Cultures. Chemical Research in Toxicology, 2016, 29, 1252-1269.	1.7	49
92	Effects of Cigarette Smoke, Cessation, and Switching to Two Heat-Not-Burn Tobacco Products on Lung Lipid Metabolism inC57BL/6andApoe^{â^'/â^'}Miceâ€"An Integrative Systems Toxicology Analysis. Toxicological Sciences, 2016, 149, 441-457.	1.4	49
93	A systems toxicology approach for comparative assessment: Biological impact of an aerosol from a candidate modified-risk tobacco product and cigarette smoke on human organotypic bronchial epithelial cultures. Toxicology in Vitro, 2017, 39, 29-51.	1.1	49
94	Propidium iodide staining correlates with the extent of DNA degradation in isolated nuclei. Biochemical and Biophysical Research Communications, 1992, 183, 532-537.	1.0	47
95	Cigarette smoke induces molecular responses in respiratory tissues of ApoEâ^'/â^' mice that are progressively deactivated upon cessation. Toxicology, 2013, 314, 112-124.	2.0	47
96	Cigarette-smoke-induced atherogenic lipid profiles in plasma and vascular tissue of apolipoprotein E-deficient mice are attenuated by smoking cessation. Atherosclerosis, 2013, 229, 86-93.	0.4	47
97	The species translation challengeâ€"A systems biology perspective on human and rat bronchial epithelial cells. Scientific Data, 2014, 1, 140009.	2.4	46
98	Is apolipoprotein D a mammalian bilin-binding protein?. The New Biologist, 1990, 2, 197-206.	2.8	46
99	Comparative systems toxicology analysis of cigarette smoke and aerosol from a candidate modified risk tobacco product in organotypic human gingival epithelial cultures: A 3-day repeated exposure study. Food and Chemical Toxicology, 2017, 101, 15-35.	1.8	44
100	3-D nasal cultures: Systems toxicological assessment of a candidate modified-risk tobacco product. ALTEX: Alternatives To Animal Experimentation, 2017, 34, 23-48.	0.9	44
101	Antibody-independent activation of the complement system by mitochondria is mediated by cardiolipin. Biochemical Journal, 1988, 249, 495-500.	1.7	42
102	Evaluation of the Tobacco Heating System 2.2. Part 7: Systems toxicological assessment of a mentholated version revealed reduced cellular and molecular exposure effects compared with mentholated and non-mentholated cigarette smoke. Regulatory Toxicology and Pharmacology, 2016, 81, S123-S138.	1.3	42
103	Hydrophobic C-terminal amino acids in the .beta.-subunit are involved in assembly with the .alpha.-subunit of sodium-potassium-ATPase. Biochemistry, 1993, 32, 14117-14124.	1.2	41
104	The Response of Human Nasal and Bronchial Organotypic Tissue Cultures to Repeated Whole Cigarette Smoke Exposure. International Journal of Toxicology, 2014, 33, 506-517.	0.6	41
105	Î±1 but Not Î±2 or Î±3 Isoforms of Na,K-ATPase Are Efficiently Phosphorylated in a Novel Protein Kinase C Motifâ€. Biochemistry, 1996, 35, 14098-14108.	1.2	40
106	About the use of protein models. Bioinformatics, 2002, 18, 934-938.	1.8	40
107	A six-month systems toxicology inhalation/cessation study in ApoEâ^'/â^' mice to investigate cardiovascular and respiratory exposure effects of modified risk tobacco products, CHTP 1.2 and THS 2.2, compared with conventional cigarettes. Food and Chemical Toxicology, 2019, 126, 113-141.	1.8	40
108	Genomic Organization and Expression of Mouse Deoxyribonuclease I. Biochemical and Biophysical Research Communications, 1995, 207, 62-68.	1.0	39

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109	Assessment of mitochondrial function following short- and long-term exposure of human bronchial epithelial cells to total particulate matter from a candidate modified-risk tobacco product and reference cigarettes. Food and Chemical Toxicology, 2018, 115, 1-12.	1.8	38
110	Effects of different discoloration challenges and whitening treatments on dental hard tissues and composite resin restorations. Journal of Dentistry, 2019, 89, 103182.	1.7	38
111	A 6-month systems toxicology inhalation study in ApoE^{â^'/â^'} mice demonstrates reduced cardiovascular effects of E-vapor aerosols compared with cigarette smoke. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H604-H631.	1.5	38
112	Aerosol from a candidate modified risk tobacco product has reduced effects on chemotaxis and transendothelial migration compared to combustion of conventional cigarettes. Food and Chemical Toxicology, 2015, 86, 81-87.	1.8	37
113	Toxicity of aerosols of nicotine and pyruvic acid (separate and combined) in Sprague€"Dawley rats in a 28-day OECD 412 inhalation study and assessment of systems toxicology. Inhalation Toxicology, 2015, 27, 405-431.	0.8	37
114	Evaluation of the Tobacco Heating System 2.2 (THS2.2). Part 5: microRNA expression from a 90-day rat inhalation study indicates that exposure to THS2.2 aerosol causes reduced effects on lung tissue compared with cigarette smoke. Regulatory Toxicology and Pharmacology, 2016, 81, S82-S92.	1.3	37
115	Systems toxicology-based assessment of the candidate modified risk tobacco product THS2.2 for the adhesion of monocytic cells to human coronary arterial endothelial cells. Toxicology, 2016, 339, 73-86.	2.0	36
116	Functional characterisation of serum DNase I in MRL-lprlpr mice. Biochemical and Biophysical Research Communications, 1992, 186, 739-745.	1.0	35
117	Biological impact of cigarette smoke compared to an aerosol produced from a prototypic modified risk tobacco product on normal human bronchial epithelial cells. Toxicology in Vitro, 2015, 29, 2102-2115.	1.1	35
118	Proteomics and Lipidomics in Inflammatory Bowel Disease Research: From Mechanistic Insights to Biomarker Identification. International Journal of Molecular Sciences, 2018, 19, 2775.	1.8	35
119	WASPbase: a database of WAS- and XLT-causing mutations. Trends in Immunology, 1996, 17, 496-502.	7.5	35
120	Sequence similarity of phospholipase A2 activating protein and the G protein Î²-subunits: a new concept of effector protein activation in signal transduction?. Trends in Biochemical Sciences, 1993, 18, 292-293.	3.7	34
121	Whole genome profiling physical map and ancestral annotation of tobacco <scp>H</scp>icks <scp>B</scp>roadleaf. Plant Journal, 2013, 75, 880-889.	2.8	34
122	Alterations in Serum Polyunsaturated Fatty Acids and Eicosanoids in Patients with Mild to Moderate Chronic Obstructive Pulmonary Disease (COPD). International Journal of Molecular Sciences, 2016, 17, 1583.	1.8	34
123	Evaluation of the tobacco heating system 2.2. Part 9: Application of systems pharmacology to identify exposure response markers in peripheral blood of smokers switching to THS2.2. Regulatory Toxicology and Pharmacology, 2016, 81, S151-S157.	1.3	34
124	Structural and functional characterization of complement c8Î³, a member of the lipocalin protein family. Molecular Immunology, 1991, 28, 123-131.	1.0	33
125	Systems Biology Approach for Evaluating the Biological Impact of Environmental Toxicants in Vitro. Chemical Research in Toxicology, 2014, 27, 367-376.	1.7	33
126	Construction of biological networks from unstructured information based on a semi-automated curation workflow. Database: the Journal of Biological Databases and Curation, 2015, 2015, bav057.	1.4	33

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127	[5] Granzyme B. Methods in Enzymology, 1994, 244, 80-87.	0.4	30
128	Identification of gene expression signature for cigarette smoke exposure responseâ€"from man to mouse. Human and Experimental Toxicology, 2015, 34, 1200-1211.	1.1	30
129	A lower impact of an acute exposure to electronic cigarette aerosols than to cigarette smoke in human organotypic buccal and small airway cultures was demonstrated using systems toxicology assessment. Internal and Emergency Medicine, 2019, 14, 863-883.	1.0	30
130	Impact Assessment of Repeated Exposure of Organotypic 3D Bronchial and Nasal Tissue Culture Models to Whole Cigarette Smoke. Journal of Visualized Experiments, 2015, , .	0.2	29
131	Enhancement of COPD biological networks using a web-based collaboration interface. F1000Research, 2015, 4, 32.	0.8	29
132	Mapping regions of GÎ±qinteracting with PLCÎ²1 using multiple overlapping synthetic peptides. FEBS Letters, 1995, 364, 45-50.	1.3	28
133	Multicomponent aerosol particle deposition in a realistic cast of the human upper respiratory tract. Inhalation Toxicology, 2017, 29, 113-125.	0.8	28
134	A 90-day OECD TG 413 rat inhalation study with systems toxicology endpoints demonstrates reduced exposure effects of the aerosol from the carbon heated tobacco product version 1.2 (CHTP1.2) compared with cigarette smoke. I. Inhalation exposure, clinical pathology and histopathology. Food and Chemical Toxicology, 2018, 116, 388-413.	1.8	28
135	Biological changes in C57BL/6 mice following 3Âweeks of inhalation exposure to cigarette smoke or e-vapor aerosols. Inhalation Toxicology, 2018, 30, 553-567.	0.8	28
136	Antiparasitic properties of leaf extracts derived from selected Nicotiana species and Nicotiana tabacum varieties. Food and Chemical Toxicology, 2019, 132, 110660.	1.8	27
137	Inflammatory Bowel Diseaseâ€"Associated Changes in the Gut: Focus on Kazan Patients. Inflammatory Bowel Diseases, 2021, 27, 418-433.	0.9	27
138	A vascular biology network model focused on inflammatory processes to investigate atherogenesis and plaque instability. Journal of Translational Medicine, 2014, 12, 185.	1.8	26
139	Systems Biology Reveals Cigarette Smoke-Induced Concentration-Dependent Direct and Indirect Mechanisms That Promote Monocyteâ€"Endothelial Cell Adhesion. Toxicological Sciences, 2015, 147, 370-385.	1.4	26
140	Assessment of the impact of aerosol from a potential modified risk tobacco product compared with cigarette smoke on human organotypic oral epithelial cultures under different exposure regimens. Food and Chemical Toxicology, 2018, 115, 148-169.	1.8	26
141	Application of a multi-layer systems toxicology framework for in vitro assessment of the biological effects of Classic Tobacco e-liquid and its corresponding aerosol using an e-cigarette device with MESHâ„¢ technology. Archives of Toxicology, 2019, 93, 3229-3247.	1.9	26
142	The Molecular Basis of the Chemokine/Chemokine Receptor Interactionâ€"Scope for Design of Chemokine Antagonists. Methods, 1996, 10, 126-134.	1.9	25
143	On Crowd-verification of Biological Networks. Bioinformatics and Biology Insights, 2013, 7, BBI.S12932.	1.0	25
144	Comprehensive systems biology analysis of a 7-month cigarette smoke inhalation study in C57BL/6 mice. Scientific Data, 2016, 3, 150077.	2.4	25

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145	Comparative biological impacts of an aerosol from carbon-heated tobacco and smoke from cigarettes on human respiratory epithelial cultures: A systems toxicology assessment. Food and Chemical Toxicology, 2018, 115, 109-126.	1.8	25
146	Bridging inhaled aerosol dosimetry to physiologically based pharmacokinetic modeling for toxicological assessment: nicotine delivery systems and beyond. Critical Reviews in Toxicology, 2019, 49, 725-741.	1.9	25
147	Multi-omics systems toxicology study of mouse lung assessing the effects of aerosols from two heat-not-burn tobacco products and cigarette smoke. Computational and Structural Biotechnology Journal, 2020, 18, 1056-1073.	1.9	25
148	Mechanism of an indirect effect of aqueous cigarette smoke extract on the adhesion of monocytic cells to endothelial cells in an in vitro assay revealed by transcriptomics analysis. Toxicology in Vitro, 2014, 28, 896-908.	1.1	24
149	Training and evaluation corpora for the extraction of causal relationships encoded in biological expression language (BEL). Database: the Journal of Biological Databases and Curation, 2016, 2016, baw113.	1.4	24
150	Systems toxicology meta-analysis of in vitro assessment studies: biological impact of a candidate modified-risk tobacco product aerosol compared with cigarette smoke on human organotypic cultures of the aerodigestive tract. Toxicology Research, 2017, 6, 631-653.	0.9	24
151	An electrophysiological characterization of naturally occurring tobacco alkaloids and their action on human Î±4Î²2 and Î±7 nicotinic acetylcholine receptors. Phytochemistry, 2020, 170, 112187.	1.4	24
152	The biological effects of long-term exposure of human bronchial epithelial cells to total particulate matter from a candidate modified-risk tobacco product. Toxicology in Vitro, 2018, 50, 95-108.	1.1	23
153	The impact of genome evolution on the allotetraploid Nicotiana rustica â€“ an intriguing story of enhanced alkaloid production. BMC Genomics, 2018, 19, 855.	1.2	23
154	Structure and bioactivity of recombinant human CTAP-III and NAP-2. The Protein Journal, 1997, 16, 37-49.	1.1	22
155	Building an R&D chemical registration system. Journal of Cheminformatics, 2012, 4, 11.	2.8	22
156	Effects of cigarette smoke, cessation and switching to a candidate modified risk tobacco product on the liver in Apoe^{â^'/â^'} mice â€“ a systems toxicology analysis. Inhalation Toxicology, 2016, 28, 226-240.	0.8	22
157	Enhancement of COPD biological networks using a web-based collaboration interface. F1000Research, 2015, 4, 32.	0.8	22
158	Comparative effects of a candidate modified-risk tobacco product Aerosol and cigarette smoke on human organotypic small airway cultures: a systems toxicology approach. Toxicology Research, 2017, 6, 930-946.	0.9	21
159	Organs-on-a-chip. Toxicology Research and Application, 2017, 1, 239784731772635.	0.7	21
160	In Vitro Systems Toxicology Assessment of Nonflavored e-Cigarette Liquids in Primary Lung Epithelial Cells. Applied in Vitro Toxicology, 2017, 3, 41-55.	0.6	20
161	The reduction of DSS-induced colitis severity in mice exposed to cigarette smoke is linked to immune modulation and microbial shifts. Scientific Reports, 2020, 10, 3829.	1.6	20
162	Genome Size and Numbers of Biological Functions. Lecture Notes in Computer Science, 2005, , 44-49.	1.0	19

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