

Jan Vondracek

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

3,289
citations

33
h-index

52
g-index

112
ext. papers

3,648
ext. citations

4.8
avg, IF

4.67
L-index

#	Paper	IF	Citations
110	Obesity II: Establishing Causal Links Between Chemical Exposures and Obesity.. <i>Biochemical Pharmacology</i> , 2022 , 115015	6	6
109	Role of miR-653 and miR-29c in downregulation of CYP1A2 expression in hepatocellular carcinoma. <i>Pharmacological Reports</i> , 2021 , 1	3.9	
108	In vitro profiling of toxic effects of environmental polycyclic aromatic hydrocarbons on nuclear receptor signaling, disruption of endogenous metabolism and induction of cellular stress. <i>Science of the Total Environment</i> , 2021 , 151967	10.2	3
107	The Role of Metabolism in Toxicity of Polycyclic Aromatic Hydrocarbons and their Non-genotoxic Modes of Action. <i>Current Drug Metabolism</i> , 2021 , 22, 584-595	3.5	1
106	Complex Alterations of Fatty Acid Metabolism and Phospholipidome Uncovered in Isolated Colon Cancer Epithelial Cells. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	8
105	A prolonged exposure of human lung carcinoma epithelial cells to benzo[a]pyrene induces p21-dependent epithelial-to-mesenchymal transition (EMT)-like phenotype. <i>Chemosphere</i> , 2021 , 263, 128126	8.4	0
104	Changes in Sphingolipid Profile of Benzo[a]pyrene-Transformed Human Bronchial Epithelial Cells Are Reflected in the Altered Composition of Sphingolipids in Their Exosomes. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
103	Deregulation of signaling pathways controlling cell survival and proliferation in cancer cells alters induction of cytochrome P450 family 1 enzymes. <i>Toxicology</i> , 2021 , 461, 152897	4.4	1
102	Hepatocellular carcinoma: Gene expression profiling and regulation of xenobiotic-metabolizing cytochromes P450. <i>Biochemical Pharmacology</i> , 2020 , 177, 113912	6	14
101	Gut Microbial Catabolites of Tryptophan Are Ligands and Agonists of the Aryl Hydrocarbon Receptor: A Detailed Characterization. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	25
100	Phospholipid profiling enables to discriminate tumor- and non-tumor-derived human colon epithelial cells: Phospholipidome similarities and differences in colon cancer cell lines and in patient-derived cell samples. <i>PLoS ONE</i> , 2020 , 15, e0228010	3.7	7
99	Specific alterations of sphingolipid metabolism identified in EpCAM-positive cells isolated from human colon tumors. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020 , 1865, 158742	5.42	3
98	Environmental six-ring polycyclic aromatic hydrocarbons are potent inducers of the AhR-dependent signaling in human cells. <i>Environmental Pollution</i> , 2020 , 266, 115125	9.3	5
97	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Disrupts Control of Cell Proliferation and Apoptosis in a Human Model of Adult Liver Progenitors. <i>Toxicological Sciences</i> , 2019 , 172, 368-384	4.4	3
96	Modulation of endocrine nuclear receptor activities by polyaromatic compounds present in fractionated extracts of diesel exhaust particles. <i>Science of the Total Environment</i> , 2019 , 677, 626-636	10.2	10
95	Colon Cancer and Perturbations of the Sphingolipid Metabolism. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	14
94	In vitro and in vivo genotoxicity of oxygenated polycyclic aromatic hydrocarbons. <i>Environmental Pollution</i> , 2019 , 246, 678-687	9.3	34

93	n-3 Polyunsaturated fatty acids alter benzo[a]pyrene metabolism and genotoxicity in human colon epithelial cell models. <i>Food and Chemical Toxicology</i> , 2019 , 124, 374-384	4.7	8
92	Butyrate interacts with benzo[a]pyrene to alter expression and activities of xenobiotic metabolizing enzymes involved in metabolism of carcinogens within colon epithelial cell models. <i>Toxicology</i> , 2019 , 412, 1-11	4.4	4
91	Butyrate and docosahexaenoic acid interact in alterations of specific lipid classes in differentiating colon cancer cells. <i>Journal of Cellular Biochemistry</i> , 2018 , 119, 4664-4679	4.7	10
90	Adaptive changes in global gene expression profile of lung carcinoma A549 cells acutely exposed to distinct types of AhR ligands. <i>Toxicology Letters</i> , 2018 , 292, 162-174	4.4	16
89	In vitro profiling of toxic effects of prominent environmental lower-chlorinated PCB congeners linked with endocrine disruption and tumor promotion. <i>Environmental Pollution</i> , 2018 , 237, 473-486	9.3	47
88	Relative effective potencies of dioxin-like compounds in rodent and human lung cell models. <i>Toxicology</i> , 2018 , 404-405, 33-41	4.4	12
87	Atropisomers of 2,2,3,3,6,6-hexachlorobiphenyl (PCB 136) exhibit stereoselective effects on activation of nuclear receptors in vitro. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 16411-16419	5.1	9
86	Polycyclic aromatic hydrocarbons and disruption of steroid signaling. <i>Current Opinion in Toxicology</i> , 2018 , 11-12, 27-34	4.4	10
85	Aryl Hydrocarbon Receptor-Dependent Metabolism Plays a Significant Role in Estrogen-Like Effects of Polycyclic Aromatic Hydrocarbons on Cell Proliferation. <i>Toxicological Sciences</i> , 2018 , 165, 447-461	4.4	21
84	Dietary fatty acids specifically modulate phospholipid pattern in colon cells with distinct differentiation capacities. <i>European Journal of Nutrition</i> , 2017 , 56, 1493-1508	5.2	7
83	Butyrate alters expression of cytochrome P450 1A1 and metabolism of benzo[a]pyrene via its histone deacetylase activity in colon epithelial cell models. <i>Archives of Toxicology</i> , 2017 , 91, 2135-2150	5.8	20
82	Activation of autophagy and PPAR α protect colon cancer cells against apoptosis induced by interactive effects of butyrate and DHA in a cell type-dependent manner: The role of cell differentiation. <i>Journal of Nutritional Biochemistry</i> , 2017 , 39, 145-155	6.3	32
81	Assessment of the aryl hydrocarbon receptor-mediated activities of polycyclic aromatic hydrocarbons in a human cell-based reporter gene assay. <i>Environmental Pollution</i> , 2017 , 220, 307-316	9.3	37
80	Pure non-dioxin-like PCB congeners suppress induction of AhR-dependent endpoints in rat liver cells. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 2099-107	5.1	10
79	Environmental Ligands of the Aryl Hydrocarbon Receptor and Their Effects in Models of Adult Liver Progenitor Cells. <i>Stem Cells International</i> , 2016 , 2016, 4326194	5	13
78	Assessing the carcinogenic potential of low-dose exposures to chemical mixtures in the environment: the challenge ahead. <i>Carcinogenesis</i> , 2015 , 36 Suppl 1, S254-96	4.6	176
77	Mechanisms of environmental chemicals that enable the cancer hallmark of evasion of growth suppression. <i>Carcinogenesis</i> , 2015 , 36 Suppl 1, S2-18	4.6	44
76	The aryl hydrocarbon receptor-dependent disruption of contact inhibition in rat liver WB-F344 epithelial cells is linked with induction of survivin, but not with inhibition of apoptosis. <i>Toxicology</i> , 2015 , 333, 37-44	4.4	4

75	Inhibition of Eatenin signalling promotes DNA damage elicited by benzo[a]pyrene in a model of human colon cancer cells via CYP1 deregulation. <i>Mutagenesis</i> , 2015 , 30, 565-76	2.8	12
74	Interactive effects of inflammatory cytokine and abundant low-molecular-weight PAHs on inhibition of gap junctional intercellular communication, disruption of cell proliferation control, and the AhR-dependent transcription. <i>Toxicology Letters</i> , 2015 , 232, 113-21	4.4	17
73	The aryl hydrocarbon receptor-mediated and genotoxic effects of fractionated extract of standard reference diesel exhaust particle material in pulmonary, liver and prostate cells. <i>Toxicology in Vitro</i> , 2015 , 29, 438-48	3.6	23
72	Consensus toxicity factors for polychlorinated dibenzo-p-dioxins, dibenzofurans, and biphenyls combining in silico models and extensive in vitro screening of AhR-mediated effects in human and rodent cells. <i>Chemical Research in Toxicology</i> , 2015 , 28, 641-50	4	31
71	Analysis of gene expression changes in A549 cells induced by organic compounds from respirable air particles. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2014 , 770, 94-103	3.3	30
70	Upregulation of CYP1B1 expression by inflammatory cytokines is mediated by the p38 MAP kinase signal transduction pathway. <i>Carcinogenesis</i> , 2014 , 35, 2534-43	4.6	25
69	In vitro and in silico derived relative effect potencies of ah-receptor-mediated effects by PCDD/Fs and PCBs in rat, mouse, and guinea pig CALUX cell lines. <i>Chemical Research in Toxicology</i> , 2014 , 27, 1120-32	4.3	11
68	Aryl hydrocarbon receptor-mediated disruption of contact inhibition is associated with connexin43 downregulation and inhibition of gap junctional intercellular communication. <i>Archives of Toxicology</i> , 2013 , 87, 491-503	5.8	24
67	AhR-mediated changes in global gene expression in rat liver progenitor cells. <i>Archives of Toxicology</i> , 2013 , 87, 681-98	5.8	27
66	Inflammatory mediators accelerate metabolism of benzo[a]pyrene in rat alveolar type II cells: the role of enhanced cytochrome P450 1B1 expression. <i>Toxicology</i> , 2013 , 314, 30-8	4.4	19
65	Aryl hydrocarbon receptor negatively regulates expression of the plakoglobin gene (jup). <i>Toxicological Sciences</i> , 2013 , 134, 258-70	4.4	13
64	Environmental Estrogens 2012 , 671-684		
63	Genotoxicity of 7H-dibenzo[c,g]carbazole and its methyl derivatives in human keratinocytes. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2012 , 743, 91-8	3	3
62	TGF- β signaling plays a dominant role in the crosstalk between TGF- β and the aryl hydrocarbon receptor ligand in prostate epithelial cells. <i>Cellular Signalling</i> , 2012 , 24, 1665-76	4.9	16
61	Benzo[a]pyrene and tumor necrosis factor- α coordinately increase genotoxic damage and the production of proinflammatory mediators in alveolar epithelial type II cells. <i>Toxicology Letters</i> , 2011 , 206, 121-9	4.4	43
60	Gene expression changes in human prostate carcinoma cells exposed to genotoxic and nongenotoxic aryl hydrocarbon receptor ligands. <i>Toxicology Letters</i> , 2011 , 206, 178-88	4.4	35
59	In vitro toxicity profiling of ultrapure non-dioxin-like polychlorinated biphenyl congeners and their relative toxic contribution to PCB mixtures in humans. <i>Toxicological Sciences</i> , 2011 , 121, 88-100	4.4	112
58	Interactions of the aryl hydrocarbon receptor with inflammatory mediators: beyond CYP1A regulation. <i>Current Drug Metabolism</i> , 2011 , 12, 89-103	3.5	51

57	Activation of the aryl hydrocarbon receptor is the major toxic mode of action of an organic extract of a reference urban dust particulate matter mixture: the role of polycyclic aromatic hydrocarbons. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2011 , 714, 53-62	3.3	69
56	Genotoxicity of 7H-dibenzo[c,g]carbazole and its tissue-specific derivatives in human hepatoma HepG2 cells is related to CYP1A1/1A2 expression. <i>Environmental and Molecular Mutagenesis</i> , 2011 , 52, 636-45	3.2	5
55	Polar compounds dominate in vitro effects of sediment extracts. <i>Environmental Science & Technology</i> , 2011 , 45, 2384-90	10.3	77
54	Toxic effects of methylated benzo[a]pyrenes in rat liver stem-like cells. <i>Chemical Research in Toxicology</i> , 2011 , 24, 866-76	4	12
53	Differential effects of indirubin and 2,3,7,8-tetrachlorodibenzo-p-dioxin on the aryl hydrocarbon receptor (AhR) signalling in liver progenitor cells. <i>Toxicology</i> , 2011 , 279, 146-54	4.4	22
52	The interplay of the aryl hydrocarbon receptor and β catenin alters both AhR-dependent transcription and Wnt/ β catenin signaling in liver progenitors. <i>Toxicological Sciences</i> , 2011 , 122, 349-60	4.4	63
51	Genotoxic polycyclic aromatic hydrocarbons fail to induce the p53-dependent DNA damage response, apoptosis or cell-cycle arrest in human prostate carcinoma LNCaP cells. <i>Toxicology Letters</i> , 2010 , 197, 227-35	4.4	21
50	SUV39h- and A-type lamin-dependent telomere nuclear rearrangement. <i>Journal of Cellular Biochemistry</i> , 2010 , 109, 915-26	4.7	17
49	The 2,2',4,4',5,5'-hexachlorobiphenyl-enhanced degradation of connexin 43 involves both proteasomal and lysosomal activities. <i>Toxicological Sciences</i> , 2009 , 107, 9-18	4.4	19
48	Differences in DNA damage and repair produced by systemic, hepatocarcinogenic and sarcomagenic dibenzocarbazole derivatives in a model of rat liver progenitor cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2009 , 665, 51-60	3.3	12
47	The role of aryl hydrocarbon receptor in regulation of enzymes involved in metabolic activation of polycyclic aromatic hydrocarbons in a model of rat liver progenitor cells. <i>Chemico-Biological Interactions</i> , 2009 , 180, 226-37	5	32
46	2,2',4,4',5,5'-hexachlorobiphenyl (PCB 153) induces degradation of adherens junction proteins and inhibits beta-catenin-dependent transcription in liver epithelial cells. <i>Toxicology</i> , 2009 , 260, 104-11	4.4	11
45	Role of aryl hydrocarbon receptor in modulation of the expression of the hypoxia marker carbonic anhydrase IX. <i>Biochemical Journal</i> , 2009 , 419, 419-25	3.8	13
44	TCDD deregulates contact inhibition in rat liver oval cells via Ah receptor, JunD and cyclin A. <i>Oncogene</i> , 2008 , 27, 2198-207	9.2	69
43	Tumor promoting properties of a cigarette smoke prevalent polycyclic aromatic hydrocarbon as indicated by the inhibition of gap junctional intercellular communication via phosphatidylcholine-specific phospholipase C. <i>Cancer Science</i> , 2008 , 99, 696-705	6.9	47
42	Lineage specific composition of cyclin D-CDK4/CDK6-p27 complexes reveals distinct functions of CDK4, CDK6 and individual D-type cyclins in differentiating cells of embryonic origin. <i>Cell Proliferation</i> , 2008 , 41, 875-893	7.9	25
41	Reduction of doxorubicin and oracin and induction of carbonyl reductase in human breast carcinoma MCF-7 cells. <i>Chemico-Biological Interactions</i> , 2008 , 176, 9-18	5	30
40	DNA adducts formation and induction of apoptosis in rat liver epithelial stem-like cells exposed to carcinogenic polycyclic aromatic hydrocarbons. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008 , 638, 122-32	3.3	47

39	Tumor necrosis factor-alpha potentiates genotoxic effects of benzo[a]pyrene in rat liver epithelial cells through upregulation of cytochrome P450 1B1 expression. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008 , 640, 162-9	3.3	42
38	Regulation of cytochrome P450 1B1 in rat liver progenitor cells. <i>Toxicology Letters</i> , 2008 , 180, S43	4.4	
37	Estrogenic activity of environmental polycyclic aromatic hydrocarbons in uterus of immature Wistar rats. <i>Toxicology Letters</i> , 2008 , 180, 212-21	4.4	66
36	Toxic effects of methylated benz[a]anthracenes in liver cells. <i>Chemical Research in Toxicology</i> , 2008 , 21, 503-12	4	29
35	Novel Anticancer Platinum(IV) Complexes with Adamantylamine: Their Efficiency and Innovative Chemotherapy Strategies Modifying Lipid Metabolism. <i>Metal-Based Drugs</i> , 2008 , 2008, 417897		12
34	Non-dioxin-like polychlorinated biphenyls induce a release of arachidonic acid in liver epithelial cells: a partial role of cytosolic phospholipase A(2) and extracellular signal-regulated kinases 1/2 signalling. <i>Toxicology</i> , 2008 , 247, 55-60	4.4	10
33	Effects of methylated chrysenes on AhR-dependent and -independent toxic events in rat liver epithelial cells. <i>Toxicology</i> , 2008 , 247, 93-101	4.4	30
32	beta-Naphthoflavone and 3Methoxy-4Nitroflavone exert ambiguous effects on Ah receptor-dependent cell proliferation and gene expression in rat liver stem-like cells. <i>Biochemical Pharmacology</i> , 2007 , 73, 1622-34	6	23
31	The aryl hydrocarbon receptor-dependent deregulation of cell cycle control induced by polycyclic aromatic hydrocarbons in rat liver epithelial cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2007 , 615, 87-97	3.3	60
30	Concentrations of methylated naphthalenes, anthracenes, and phenanthrenes occurring in Czech river sediments and their effects on toxic events associated with carcinogenesis in rat liver cell lines. <i>Environmental Toxicology and Chemistry</i> , 2007 , 26, 2308-16	3.8	38
29	Different cell cycle modulation following treatment of human ovarian carcinoma cells with a new platinum(IV) complex vs cisplatin. <i>Investigational New Drugs</i> , 2007 , 25, 435-43	4.3	20
28	Dibenzanthracenes and benzochrysenes elicit both genotoxic and nongenotoxic events in rat liver stem-like cells. <i>Toxicology</i> , 2007 , 232, 147-59	4.4	20
27	Tumor necrosis factor-alpha modulates effects of aryl hydrocarbon receptor ligands on cell proliferation and expression of cytochrome P450 enzymes in rat liver "stem-like" cells. <i>Toxicological Sciences</i> , 2007 , 99, 79-89	4.4	37
26	Activation of ERK1/2 and p38 kinases by polycyclic aromatic hydrocarbons in rat liver epithelial cells is associated with induction of apoptosis. <i>Toxicology and Applied Pharmacology</i> , 2006 , 211, 198-208	4.6	23
25	7H-Dibenzo[c,g]carbazole and 5,9-dimethyldibenzo[c,g]carbazole exert multiple toxic events contributing to tumor promotion in rat liver epithelial stem-like cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2006 , 596, 43-56	3.3	33
24	MK-886 enhances tumour necrosis factor-alpha-induced differentiation and apoptosis. <i>Cancer Letters</i> , 2006 , 237, 263-71	9.9	10
23	Dimethyl sulfoxide potentiates death receptor-mediated apoptosis in the human myeloid leukemia U937 cell line through enhancement of mitochondrial membrane depolarization. <i>Leukemia Research</i> , 2006 , 30, 81-9	2.7	15
22	Transforming growth factor-beta1 inhibits all-trans retinoic acid-induced apoptosis. <i>Leukemia Research</i> , 2006 , 30, 607-23	2.7	14

21	Aryl hydrocarbon receptor-activating polychlorinated biphenyls and their hydroxylated metabolites induce cell proliferation in contact-inhibited rat liver epithelial cells. <i>Toxicological Sciences</i> , 2005 , 83, 53-63	4.4	40
20	Deregulation of cell proliferation by polycyclic aromatic hydrocarbons in human breast carcinoma MCF-7 cells reflects both genotoxic and nongenotoxic events. <i>Toxicological Sciences</i> , 2005 , 83, 246-56	4.4	86
19	Chemoprotective and toxic potentials of synthetic and natural chalcones and dihydrochalcones in vitro. <i>Toxicology</i> , 2005 , 208, 81-93	4.4	41
18	Effects of silymarin flavonolignans and synthetic silybin derivatives on estrogen and aryl hydrocarbon receptor activation. <i>Toxicology</i> , 2005 , 215, 80-9	4.4	66
17	Impact of polychlorinated biphenyls contamination on estrogenic activity in human male serum. <i>Environmental Health Perspectives</i> , 2005 , 113, 1277-84	8.4	108
16	Polycyclic aromatic hydrocarbons modulate cell proliferation in rat hepatic epithelial stem-like WB-F344 cells. <i>Toxicology and Applied Pharmacology</i> , 2004 , 196, 136-48	4.6	64
15	Induction of aryl hydrocarbon receptor-mediated and estrogen receptor-mediated activities, and modulation of cell proliferation by dinaphthofurans. <i>Environmental Toxicology and Chemistry</i> , 2004 , 23, 2214-20	3.8	21
14	Toxicity of hydroxylated and quinoid PCB metabolites: inhibition of gap junctional intercellular communication and activation of aryl hydrocarbon and estrogen receptors in hepatic and mammary cells. <i>Chemical Research in Toxicology</i> , 2004 , 17, 340-7	4	79
13	Inhibition of gap junctional intercellular communication by noncoplanar polychlorinated biphenyls: inhibitory potencies and screening for potential mode(s) of action. <i>Toxicological Sciences</i> , 2003 , 76, 102-114	4.4	66
12	Perioperative and postoperative course of cytokines and the metabolic activity of neutrophils in human cardiac operations and heart transplantation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2002 , 124, 1122-9	1.5	14
11	Modulation of estrogen receptor-dependent reporter construct activation and G0/G1-S-phase transition by polycyclic aromatic hydrocarbons in human breast carcinoma MCF-7 cells. <i>Toxicological Sciences</i> , 2002 , 70, 193-201	4.4	47
10	Inhibition of gap-junctional intercellular communication by environmentally occurring polycyclic aromatic hydrocarbons. <i>Toxicological Sciences</i> , 2002 , 65, 43-51	4.4	79
9	Monitoring river sediments contaminated predominantly with polyaromatic hydrocarbons by chemical and in vitro bioassay techniques. <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 1499-1506	3.8	66
8	Inhibitors of arachidonic acid metabolism potentiate tumour necrosis factor-alpha-induced apoptosis in HL-60 cells. <i>European Journal of Pharmacology</i> , 2001 , 424, 1-11	5.3	8
7	Peri- and post-operative course of cytokines and the metabolic activity of neutrophils in human liver transplantation. <i>Cytokine</i> , 2001 , 16, 97-101	4	12
6	Aryl hydrocarbon receptor-mediated activity of mutagenic polycyclic aromatic hydrocarbons determined using in vitro reporter gene assay. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2001 , 497, 49-62	3	247
5	. <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 2736	3.8	10
4	. <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 1499	3.8	3

3	Multiple oxidative stress parameters are modulated in vitro by oxygenated polycyclic aromatic hydrocarbons identified in river sediments. <i>Advances in Experimental Medicine and Biology</i> , 2001 , 500, 225-8	3.6	3
2	Total antioxidant capacity of serum increased in early but not late period after intestinal ischemia in rats. <i>Free Radical Biology and Medicine</i> , 1998 , 25, 9-18	7.8	42
1	Leukocyte mobilization, chemiluminescence response, and antioxidative capacity of the blood in intestinal ischemia and reperfusion. <i>Free Radical Research</i> , 1997 , 27, 359-67	4	7