

# Mohammad Athar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/397161/publications.pdf>

Version: 2024-02-01

121  
papers

6,798  
citations

136740

32  
h-index

76769

74  
g-index

126  
all docs

126  
docs citations

126  
times ranked

6049  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic understanding of the toxic effects of arsenic and warfare arsenicals on human health and environment. <i>Cell Biology and Toxicology</i> , 2023, 39, 85-110.	2.4	29
2	Epigenetic regulation in the pathogenesis of non-melanoma skin cancer. <i>Seminars in Cancer Biology</i> , 2022, 83, 36-56.	4.3	24
3	UALCAN: An update to the integrated cancer data analysis platform. <i>Neoplasia</i> , 2022, 25, 18-27.	2.3	666
4	Advances in molecular pathogenesis of hidradenitis suppurativa: Dysregulated keratins and ECM signaling. <i>Seminars in Cell and Developmental Biology</i> , 2022, 128, 120-129.	2.3	5
5	Design and optimization of 18-gene Ion AmpliSeq panel of Next-generation sequencing for gene mutation analysis causing pain insensitivity. , 2022, 8, .		0
6	Identification of Novel and Known LDLR Variants Triggering Severe Familial Hypercholesterolemia in Saudi Families. <i>Current Vascular Pharmacology</i> , 2022, 20, 361-369.	0.8	1
7	Ex Vivo Culture Models of Hidradenitis Suppurativa for Defining Molecular Pathogenesis and Treatment Efficacy of Novel Drugs. <i>Inflammation</i> , 2022, 45, 1388-1401.	1.7	2
8	Fibrinogen mediates cadmium-induced macrophage activation and serves as a predictor of cadmium exposure in chronic obstructive pulmonary disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 322, L593-L606.	1.3	6
9	Development of BRD4 inhibitors as anti-inflammatory agents and antidotes for arsenicals. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 64, 128696.	1.0	3
10	Combined inhibition of BET bromodomain and mTORC1/2 provides therapeutic advantage for rhabdomyosarcoma by switching cell death mechanism. <i>Molecular Carcinogenesis</i> , 2022, 61, 737-751.	1.3	6
11	Cover Image, Volume 61, Issue 8. <i>Molecular Carcinogenesis</i> , 2022, 61, .	1.3	0
12	CYP11A1-derived vitamin D hydroxyderivatives as candidates for therapy of basal and squamous cell carcinomas. <i>International Journal of Oncology</i> , 2022, 61, .	1.4	16
13	Moving immune therapy forward targeting tme. <i>Physiological Reviews</i> , 2021, 101, 417-425.	13.1	62
14	5â€²-Capâ€²-Dependent Translation as a Potent Therapeutic Target for Lethal Human Squamous Cell Carcinoma. <i>Journal of Investigative Dermatology</i> , 2021, 141, 742-753.e10.	0.3	7
15	Prevalence of the Factor V Leiden Mutation Arg534Gln in Western Region of Saudi Arabia: Functional Alteration and Association Study With Different Populations. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2021, 27, 107602962097853.	0.7	4
16	Inference of Gene Regulatory Network from Single-Cell Transcriptomic Data Using pySCENIC. <i>Methods in Molecular Biology</i> , 2021, 2328, 171-182.	0.4	25
17	Citrullinated vimentin mediates development and progression of lung fibrosis. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	60
18	Transcriptional circuitry atlas of genetic diverse unstimulated murine and human macrophages define disparity in population-wide innate immunity. <i>Scientific Reports</i> , 2021, 11, 7373.	1.6	7

#	ARTICLE	IF	CITATIONS
19	Extracellular Vesicle Mediated Tumor-Stromal Crosstalk Within an Engineered Lung Cancer Model. <i>Frontiers in Oncology</i> , 2021, 11, 654922.	1.3	8
20	Tribbles Homolog 3 Mediates the Development and Progression of Diabetic Retinopathy. <i>Diabetes</i> , 2021, 70, 1738-1753.	0.3	11
21	NETosis in the pathogenesis of acute lung injury following cutaneous chemical burns. <i>JCI Insight</i> , 2021, 6, .	2.3	24
22	Genetic Association of rs10757278 on Chromosome 9p21 and Coronary Artery Disease in a Saudi Population. <i>International Journal of General Medicine</i> , 2021, Volume 14, 1699-1707.	0.8	1
23	Compound A Increases Cell Infiltration in Target Organs of Acute Graft-versus-Host Disease (aGVHD) in a Mouse Model. <i>Molecules</i> , 2021, 26, 4237.	1.7	0
24	Tribbles homolog 3-mediated targeting the AKT/mTOR axis in mice with retinal degeneration. <i>Cell Death and Disease</i> , 2021, 12, 664.	2.7	14
25	Targeted next-generation sequencing reveals novel and known variants of thrombophilia associated genes in Saudi patients with venous thromboembolism. <i>Clinica Chimica Acta</i> , 2021, 519, 247-254.	0.5	2
26	Comparative transcriptome analyses reveal genes associated with SARS-CoV-2 infection of human lung epithelial cells. <i>Scientific Reports</i> , 2021, 11, 16212.	1.6	15
27	Hedgehog/GLI1 Transcriptionally Regulates FANCD2 in Ovarian Tumor Cells: Its Inhibition Induces HR-Deficiency and Synergistic Lethality with PARP Inhibition.. <i>Neoplasia</i> , 2021, 23, 1002-1015.	2.3	6
28	Dietary table grape protects against ultraviolet photodamage in humans: 2. molecular biomarker studies. <i>Journal of the American Academy of Dermatology</i> , 2021, 85, 1032-1034.	0.6	2
29	Dietary table grape protects against ultraviolet photodamage in humans: 1. clinical evaluation. <i>Journal of the American Academy of Dermatology</i> , 2021, 85, 1030-1032.	0.6	4
30	Global, regional, and national burden of stroke and its risk factors, 1990â€“2019: a systematic analysis for the Global Burden of Disease Study 2019. <i>Lancet Neurology</i> , The, 2021, 20, 795-820.	4.9	2,308
31	Regulatory T Cells Play an Important Role in the Prevention of Murine Melanocytic Nevi and Melanomas. <i>Cancer Prevention Research</i> , 2021, 14, 165-174.	0.7	1
32	Indoleamine 2, 3-Dioxygenase Promotes Aryl Hydrocarbon Receptor-Dependent Differentiation Of Regulatory B Cells in Lung Cancer. <i>Frontiers in Immunology</i> , 2021, 12, 747780.	2.2	8
33	A Novel Tree Shrew Model of Diabetic Retinopathy. <i>Frontiers in Endocrinology</i> , 2021, 12, 799711.	1.5	7
34	Dynamic Regulation of the Nexus Between Stress Granules, Roquin, and Regnase-1 Underlies the Molecular Pathogenesis of Warfare Vesicants. <i>Frontiers in Immunology</i> , 2021, 12, 809365.	2.2	5
35	Autocrine/paracrine actions of growth hormone in human melanoma cell lines. <i>Biochemistry and Biophysics Reports</i> , 2020, 21, 100716.	0.7	4
36	Future appeal of comparative studies on putative binding sites of HIV-1 virus-encoded proteolytic enzyme inhibitor of different Food and Drug Administration-approved compounds. <i>HIV and AIDS Review</i> , 2020, 19, 78-86.	0.1	0

#	ARTICLE	IF	CITATIONS
37	COVID-19 and Vitamin D: A lesson from the skin. <i>Experimental Dermatology</i> , 2020, 29, 885-890.	1.4	53
38	Photocarcinogenesis. <i>Current Dermatology Reports</i> , 2020, 9, 189-199.	1.1	10
39	Integrative Network Biology Framework Elucidates Molecular Mechanisms of SARS-CoV-2 Pathogenesis. <i>IScience</i> , 2020, 23, 101526.	1.9	52
40	Protective role of HO-1 against acute kidney injury caused by cutaneous exposure to arsenicals. <i>Annals of the New York Academy of Sciences</i> , 2020, 1480, 155-169.	1.8	8
41	EZH2-Targeted Therapies in Cancer: Hype or a Reality. <i>Cancer Research</i> , 2020, 80, 5449-5458.	0.4	139
42	Noncalcemic Vitamin D Hydroxyderivatives Inhibit Human Oral Squamous Cell Carcinoma and Down-regulate Hedgehog and WNT/ $\beta$ -Catenin Pathways. <i>Anticancer Research</i> , 2020, 40, 2467-2474.	0.5	12
43	Topical delivery of nordihydroguarectic acid for attenuating cutaneous damage caused by arsenicals. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 58, 101773.	1.4	0
44	Photoprotective Properties of Vitamin D and Lumisterol Hydroxyderivatives. <i>Cell Biochemistry and Biophysics</i> , 2020, 78, 165-180.	0.9	113
45	Cutaneous lewisite exposure causes acute lung injury. <i>Annals of the New York Academy of Sciences</i> , 2020, 1479, 210-222.	1.8	20
46	The Role of Classical and Novel Forms of Vitamin D in the Pathogenesis and Progression of Nonmelanoma Skin Cancers. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1268, 257-283.	0.8	38
47	Integrative Network Biology Framework Elucidates Molecular Mechanisms of SARS-CoV-2 Pathogenesis. <i>SSRN Electronic Journal</i> , 2020, , 3581857.	0.4	4
48	EGFRvIII expression and isocitrate dehydrogenase mutations in patients with glioma. <i>Oncology Letters</i> , 2020, 20, 1-1.	0.8	3
49	Xanthomas Can Be Misdiagnosed and Mistreated in Homozygous Familial Hypercholesterolemia Patients: A Call for Increased Awareness Among Dermatologists and Health Care Practitioners. <i>Global Heart</i> , 2020, 15, 19.	0.9	10
50	CD5 on dendritic cells regulates CD4+ and CD8+ T cell activation and induction of immune responses. <i>PLoS ONE</i> , 2019, 14, e0222301.	1.1	12
51	Patched1 haploinsufficiency severely impacts intermediary metabolism in the skin of Ptch1+/ $\Delta^u$ /ODC transgenic mice. <i>Scientific Reports</i> , 2019, 9, 13072.	1.6	2
52	Vimentin intermediate filament assembly regulates fibroblast invasion in fibrogenic lung injury. <i>JCI Insight</i> , 2019, 4, .	2.3	69
53	Molecular Dynamics Simulation Reveals Exposed Residues in the Ligand-Binding Domain of the Low-Density Lipoprotein Receptor that Interacts with Vesicular Stomatitis Virus-G Envelope. <i>Viruses</i> , 2019, 11, 1063.	1.5	4
54	Combined mTORC1/mTORC2 inhibition blocks growth and induces catastrophic macropinocytosis in cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24583-24592.	3.3	34

#	ARTICLE	IF	CITATIONS
55	Association of functional variants and protein-to-protein physical interactions of human MutY homolog linked with familial adenomatous polyposis and colorectal cancer syndrome. <i>Non-coding RNA Research</i> , 2019, 4, 155-173.	2.4	1
56	Modifying inter-cistronic sequence significantly enhances IRES dependent second gene expression in bicistronic vector: Construction of optimised cassette for gene therapy of familial hypercholesterolemia. <i>Non-coding RNA Research</i> , 2019, 4, 1-14.	2.4	16
57	Mutation profiling of anaplastic ependymoma grade III by Ion Proton next generation DNA sequencing. <i>F1000Research</i> , 2019, 8, 613.	0.8	5
58	Global gene expression of histologically normal primary skin cells from BCNS subjects reveals single-hit effects that are influenced by rapamycin. <i>Oncotarget</i> , 2019, 10, 1360-1387.	0.8	6
59	Next generation DNA sequencing of atypical choroid plexus papilloma of brain: Identification of novel mutations in a female patient by Ion Proton. <i>Oncology Letters</i> , 2019, 18, 5063-5076.	0.8	12
60	Whole Exome Sequencing Reveals Multiple Mutations in Uncommon Genes of Familial Hypercholesterolaemia. <i>Journal of Cardiovascular Disease Research (discontinued)</i> , 2019, 10, 09-15.	0.1	3
61	Identification of six novel factor viii gene variants using next generation sequencing and molecular dynamics simulation. <i>Acta Biochimica Polonica</i> , 2019, 66, 23-31.	0.3	1
62	Mutation profiling of anaplastic ependymoma grade III by Ion Proton next generation DNA sequencing. <i>F1000Research</i> , 2019, 8, 613.	0.8	7
63	SOX9 Transcriptionally Regulates mTOR-Induced Proliferation of Basal Cell Carcinomas. <i>Journal of Investigative Dermatology</i> , 2018, 138, 1716-1725.	0.3	26
64	Distal airway microbiome is associated with immunoregulatory myeloid cell responses in lung transplant recipients. <i>Journal of Heart and Lung Transplantation</i> , 2018, 37, 206-216.	0.3	16
65	In Silico Approach to Investigate the Structural and Functional Attributes of Familial Hypercholesterolemia Variants Reported in the Saudi Population. <i>Journal of Computational Biology</i> , 2018, 25, 170-181.	0.8	4
66	Novel combined variants of LDLR and LDLRAP1 genes causing severe familial hypercholesterolemia. <i>Atherosclerosis</i> , 2018, 277, 425-433.	0.4	15
67	Cutaneous exposure to lewisite causes acute kidney injury by invoking DNA damage and autophagic response. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 314, F1166-F1176.	1.3	30
68	Low-dose cadmium exposure induces peribronchiolar fibrosis through site-specific phosphorylation of vimentin. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 313, L80-L91.	1.3	28
69	Basal cell carcinoma pathogenesis and therapy involving hedgehog signaling and beyond. <i>Molecular Carcinogenesis</i> , 2017, 56, 2543-2557.	1.3	74
70	Naproxen Inhibits UVB-Induced Basal Cell and Squamous Cell Carcinoma Development in Ptch1 <sup>+/+</sup> /SKH-1 Hairless Mice. <i>Photochemistry and Photobiology</i> , 2017, 93, 1016-1024.	1.3	15
71	Compound heterozygous LDLR variant in severely affected familial hypercholesterolemia patient.. <i>Acta Biochimica Polonica</i> , 2017, 64, 75-79.	0.3	10
72	The Spectrum of Familial Hypercholesterolemia (FH) in Saudi Arabia: Prime Time for Patient FH Registry. <i>Open Cardiovascular Medicine Journal</i> , 2017, 11, 66-75.	0.6	15

#	ARTICLE	IF	CITATIONS
73	Functional alterations due to amino acid changes and evolutionary comparative analysis of ARPKD and ADPKD genes. <i>Genomics Data</i> , 2016, 10, 127-134.	1.3	9
74	ATF4 regulates arsenic trioxide-mediated NADPH oxidase, ER-mitochondrial crosstalk and apoptosis. <i>Archives of Biochemistry and Biophysics</i> , 2016, 609, 39-50.	1.4	26
75	Activating transcription factor 4 underlies the pathogenesis of arsenic trioxide-mediated impairment of macrophage innate immune functions. <i>Toxicology and Applied Pharmacology</i> , 2016, 308, 46-58.	1.3	10
76	Molecular Mechanism Underlying Pathogenesis of Lewisite-Induced Cutaneous Blistering and Inflammation. <i>American Journal of Pathology</i> , 2016, 186, 2637-2649.	1.9	32
77	Biological and environmental hazards associated with exposure to chemical warfare agents: arsenicals. <i>Annals of the New York Academy of Sciences</i> , 2016, 1378, 143-157.	1.8	35
78	Next-generation sequencing for molecular diagnosis of autosomal recessive polycystic kidney disease. <i>Gene</i> , 2016, 591, 214-226.	1.0	15
79	Defining cutaneous molecular pathobiology of arsenicals using phenylarsine oxide as a prototype. <i>Scientific Reports</i> , 2016, 6, 34865.	1.6	21
80	Ionizing Radiation Exposure and Basal Cell Carcinoma Pathogenesis. <i>Radiation Research</i> , 2016, 185, 217-228.	0.7	50
81	Identification of a recurrent frameshift mutation at the LDLR exon 14 (c.2027delG, p.(G676Afs*33)) causing familial hypercholesterolemia in Saudi Arab homozygous children. <i>Genomics</i> , 2016, 107, 24-32.	1.3	17
82	Fisetin, a dietary flavonoid, augments the anti-invasive and anti-metastatic potential of sorafenib in melanoma. <i>Oncotarget</i> , 2016, 7, 1227-1241.	0.8	63
83	Introduction. <i>Photochemistry and Photobiology</i> , 2015, 91, 139-139.	1.3	0
84	Aberrant GLI1 Activation in DNA Damage Response, Carcinogenesis and Chemoresistance. <i>Cancers</i> , 2015, 7, 2330-2351.	1.7	64
85	Fisetin, a phytochemical, potentiates sorafenib-induced apoptosis and abrogates tumor growth in athymic nude mice implanted with BRAF-mutated melanoma cells. <i>Oncotarget</i> , 2015, 6, 28296-28311.	0.8	75
86	Next generation sequencing to identify novel genetic variants causative of autosomal dominant familial hypercholesterolemia associated with increased risk of coronary heart disease. <i>Gene</i> , 2015, 565, 76-84.	1.0	31
87	Shh and p50/Bcl3 signaling crosstalk drives pathogenesis of BCCs in gorlin syndrome. <i>Oncotarget</i> , 2015, 6, 36789-36814.	0.8	25
88	Evidence of Trem2 Variant Associated with Triple Risk of Alzheimer's Disease. <i>PLoS ONE</i> , 2014, 9, e92648.	1.1	42
89	Fisetin Inhibits Human Melanoma Cell Invasion through Promotion of Mesenchymal to Epithelial Transition and by Targeting MAPK and NF- $\kappa$ B Signaling Pathways. <i>PLoS ONE</i> , 2014, 9, e86338.	1.1	84
90	Sonic Hedgehog Signaling in Basal Cell Nevus Syndrome. <i>Cancer Research</i> , 2014, 74, 4967-4975.	0.4	118

#	ARTICLE	IF	CITATIONS
91	Cytokines and Chemokines: Disease Models, Mechanisms, and Therapies. Mediators of Inflammation, 2014, 2014, 1-5.	1.4	5
92	Erb-041, an Estrogen Receptor- $\beta$ Agonist, Inhibits Skin Photocarcinogenesis in SKH-1 Hairless Mice by Downregulating the WNT Signaling Pathway. Cancer Prevention Research, 2014, 7, 186-198.	0.7	36
93	DNA mismatch repair MSH2 gene-based SNP associated with different populations. Molecular Genetics and Genomics, 2014, 289, 469-487.	1.0	1
94	Keratin-6 driven ODC expression to hair follicle keratinocytes enhances stemness and tumorigenesis by negatively regulating Notch. Biochemical and Biophysical Research Communications, 2014, 451, 394-401.	1.0	8
95	Cyclooxygenases: Mediators of UV-Induced Skin Cancer and Potential Targets for Prevention. Journal of Investigative Dermatology, 2014, 134, 2497-2502.	0.3	62
96	The mechanistic basis of arsenicosis: Pathogenesis of skin cancer. Cancer Letters, 2014, 354, 211-219.	3.2	101
97	Hair Follicle Disruption Facilitates Pathogenesis to UVB-Induced Cutaneous Inflammation and Basal Cell Carcinoma Development in Ptch+/ $\Delta^3$ Mice. American Journal of Pathology, 2014, 184, 1529-1540.	1.9	7
98	Identification of a novel nonsense variant c.1332dup, p.(D445*) in the LDLR gene that causes familial hypercholesterolemia. Human Genome Variation, 2014, 1, 14021.	0.4	20
99	Inhibition of p38 MAPK Signaling Augments Skin Tumorigenesis via NOX2 Driven ROS Generation. PLoS ONE, 2014, 9, e97245.	1.1	25
100	GLI inhibitor GANT-61 diminishes embryonal and alveolar rhabdomyosarcoma growth by inhibiting Shh/AKT-mTOR axis. Oncotarget, 2014, 5, 12151-12165.	0.8	79
101	Unfolded protein response (UPR) signaling regulates arsenic trioxide-mediated macrophage innate immune function disruption. Toxicology and Applied Pharmacology, 2013, 272, 879-887.	1.3	55
102	Rapamycin targeting mTOR and hedgehog signaling pathways blocks human rhabdomyosarcoma growth in xenograft murine model. Biochemical and Biophysical Research Communications, 2013, 435, 557-561.	1.0	27
103	Milestones in Photocarcinogenesis. Journal of Investigative Dermatology, 2013, 133, E13-E17.	0.3	25
104	Combined inhibition of p38 and Akt signaling pathways abrogates cyclosporine A-mediated pathogenesis of aggressive skin SCCs. Biochemical and Biophysical Research Communications, 2012, 425, 177-181.	1.0	10
105	Pathogenesis of nonmelanoma skin cancers in organ transplant recipients. Archives of Biochemistry and Biophysics, 2011, 508, 159-163.	1.4	56
106	Pharmacological Activation of p53 in Cancer Cells. Current Pharmaceutical Design, 2011, 17, 631-639.	0.9	33
107	Hoechst 33342 induced reactive oxygen species and impaired expression of cytochrome c oxidase subunit 1 leading to cell death in irradiated human cancer cells. Molecular and Cellular Biochemistry, 2011, 352, 281-292.	1.4	7
108	Cyclosporine a mediates pathogenesis of aggressive cutaneous squamous cell carcinoma by augmenting epithelial $\rightarrow$ mesenchymal transition: Role of TGF $\beta$ signaling pathway. Molecular Carcinogenesis, 2011, 50, 516-527.	1.3	46

#	ARTICLE	IF	CITATIONS
109	Unfolded Protein Response Signaling and MAP Kinase Pathways Underlie Pathogenesis of Arsenic-Induced Cutaneous Inflammation. <i>Cancer Prevention Research</i> , 2011, 4, 2101-2109.	0.7	50
110	Rapamycin and mTORC1 Inhibition in the Mouse: Skin Cancer Prevention. <i>Cancer Prevention Research</i> , 2011, 4, 957-961.	0.7	26
111	Hoechst 33342 induces radiosensitization in malignant glioma cells via increase in mitochondrial reactive oxygen species. <i>Free Radical Research</i> , 2010, 44, 936-949.	1.5	11
112	Resveratrol: A review of preclinical studies for human cancer prevention. <i>Toxicology and Applied Pharmacology</i> , 2007, 224, 274-283.	1.3	624
113	Hedgehog signalling in skin development and cancer. <i>Experimental Dermatology</i> , 2006, 15, 667-677.	1.4	169
114	Inhibition of Smoothed Signaling Prevents Ultraviolet B-Induced Basal Cell Carcinomas through Regulation of Fas Expression and Apoptosis. <i>Cancer Research</i> , 2004, 64, 7545-7552.	0.4	170
115	Photoprotective effects of sulindac against ultraviolet B-induced phototoxicity in the skin of SKH-1 hairless mice. <i>Toxicology and Applied Pharmacology</i> , 2004, 195, 370-378.	1.3	28
116	Ornithine decarboxylase is a target for chemoprevention of basal and squamous cell carcinomas in Ptch1+/Δ mice. <i>Journal of Clinical Investigation</i> , 2004, 113, 867-875.	3.9	63
117	Ornithine decarboxylase is a target for chemoprevention of basal and squamous cell carcinomas in Ptch1+/Δ mice. <i>Journal of Clinical Investigation</i> , 2004, 113, 867-875.	3.9	35
118	Stage-specific Alterations of Cyclin Expression During UVB-induced Murine Skin Tumor Development. <i>Photochemistry and Photobiology</i> , 2002, 75, 58-67.	1.3	1
119	Cyclooxygenase-2 Expression in Murine and Human Nonmelanoma Skin Cancers: Implications for Therapeutic Approaches. <i>Photochemistry and Photobiology</i> , 2002, 76, 73-80.	1.3	16
120	Photoprotective Effect of Black Tea Extracts Against UVB-induced Phototoxicity in Skin. <i>Photochemistry and Photobiology</i> , 1999, 70, 637-644.	1.3	53
121	Photoprotective Effect of Black Tea Extracts Against UVB-induced Phototoxicity in Skin. <i>Photochemistry and Photobiology</i> , 1999, 70, 637.	1.3	13