ORSAA Literature Review Database – Getting Started

We have populated the database with data from a number of sources PubMed, EMF portal and ARPANSA reports and EMF monthly literature surveys. You will **not be** allowed to change data as the guest access has read-only access but you will able to do Search of the data or FIND.

1. Automatic Log On

https://n432.fmphost.com/fmi/webd#Research_Review_V4

FILEMAKER GO

You can also download FILEMAKER Go at your Apple apps store (It's free) and run this application on your IPAD. The Android version is not available yet but is coming. You will be presented with the main screen. Note the top navigation bar at the top of screen.

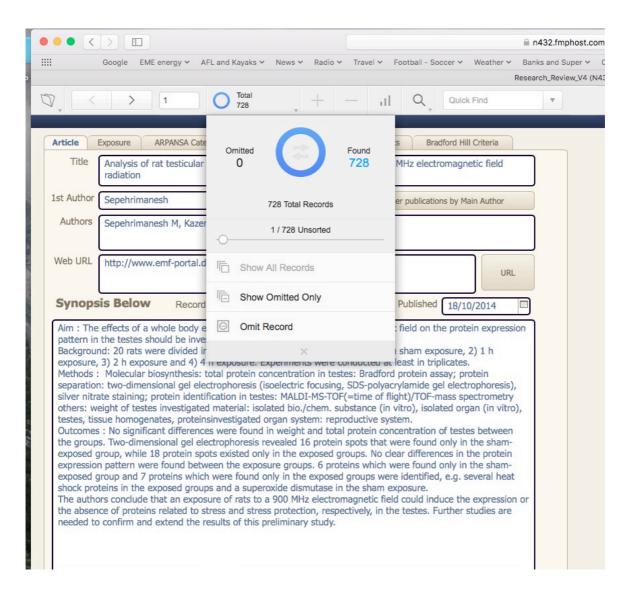
Article	Exposure	ARPANSA Categories	Effects Categories	Study Statistics	Bradford Hill Criteria				
Title	Analysis or radiation	of rat testicular proteom	e following 30-days e	kposure to 900 MH;	z electromagnetic field				
lst Author	Sepehrimanesh Check for other publications by Main Author								
Authors	Sepehrim	Sepehrimanesh M, Kazemipour N, Saeb M, Nazifi S							
Web URL	http://wv	vw.emf-portal.de/viewer	php?aid=25672&l=e		URL				
Synops	sis Belo	Record Added b	Steve Weller	Date Put	blished 18/10/2014				
Backgroui exposure, Methods : separation silver nitra others: w testes, tis Outcomes the group exposed g shock prod the absen needed to	nd: 20 rats , 3) 2 h exp : Molecula n: two-dim ate staining eight of tes sue homog s : No signi ps. Two-dim group, whil n pattern v group, whil n pattern v group and i teins in the ors conclud nee of prote o confirm a	g; protein identification i stes investigated materia genates, proteinsinvestig ficant differences were f lensional gel electrophor e 18 protein spots existe vere found between the 7 proteins which were for e exposed groups and a le that an exposure of ra eins related to stress and nd extend the results of Excluded	ure. Experiments were ein concentration in t esis (isoelectric focusi n testes: MALDI-MS-T II: isolated bio./chem. ated organ system: re ound in weight and to esis revealed 16 protu- ed only in the exposed exposure groups. 6 p und only in the exposed superoxide dismutase ts to a 900 MHz elect stress protection, re	e conducted at leas estes: Bradford pro ng, SDS-polyacrylar OF(=time of flight) substance (in vitro eproductive system, otal protein concent ein spots that were I groups. No clear of groups. No clear of oroteins which were ided groups were ide in the sham expos romagnetic field co spectively, in the te	t in triplicates. tein assay; protein mide gel electrophoresis), /TOF-mass spectrometry), isolated organ (in vitro), tration of testes between found only in the sham- differences in the protein found only in the sham- entified, e.g. several heat				
Result	Effect	* from Statistics		eview R	Leports EXIT				

You are at record No 1 use the > key to move through records also not the blue circle which show 725 records. The icon of interest is the search "spy-glass" ion and the quick find box. The total number of records at the time of creating this document was 725, you will find this number has increased.

You can log out by pushing the <EXIT> button on the bottom right hand corner or you can use the drop down under the folder icon on the tool bar as shown below and press "Log Out".

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+ Records >	Added by Steve Weller Date Published 18/10/2014
Scripts	xposure of rats to a 900 MHz electromagnetic field on the protein expression stigated.
? Help >	ito the following groups (n=5 each group): 1) sham exposure, 2) 1 h h exposure. Experiments were conducted at least in triplicates. total protein concentration in testes: Bradford protein assay; protein
×	ctrophoresis (isoelectric focusing, SDS-polyacrylamide gel electrophoresis), _fication in testes: MALDI-MS-TOF(=time of flight)/TOF-mass spectrometry
testes, tissue homogenates, protei Outcomes : No significant differen the groups. Two-dimensional gel e exposed group, while 18 protein s expression pattern were found bet exposed group and 7 proteins whi shock proteins in the exposed grou The authors conclude that an expo	ed material: isolated bio./chem. substance (in vitro), isolated organ (in vitro), insinvestigated organ system: reproductive system. ces were found in weight and total protein concentration of testes between lectrophoresis revealed 16 protein spots that were found only in the sham- pots existed only in the exposed groups. No clear differences in the protein ween the exposure groups. 6 proteins which were found only in the sham- ch were found only in the exposed groups were identified, e.g. several heat ups and a superoxide dismutase in the sham exposure. Dosure of rats to a 900 MHz electromagnetic field could induce the expression or stress and stress protection, respectively, in the testes. Further studies are results of this preliminary study.
Result Effect T	Excluded from Statistics y Review Reports EXIT

Also note the drop down arrow in the total box. It will show selected records after a FIND search. To get back all the records click on "Show All Records " at present it shows all the 725 records. You can scroll through records by moving the slide bar at the base of around the scroll wheel. As a Guest log-in you only have read-only rights



You can check out the TAB along the top of the table. The "Exposure" TAB can have a number of experiments attached to the one paper. This is a one-to-many relationship. Similarly the "Study Statistics" TAB can have a number of statistical summaries attached to a case study.

2. FIND SEARCHS

Click on the Magnifying or spy-glass and a drop down will appear select Enter Find Mode.

The following screen will appear and in the Authors do a wildcard search for HARDELL or hardell its not case sensitive The FIND Search will do a search for HARDELL in the authors list. You can put an * (wildcard) before and after the name or a word search show by "=" (match whole word or empty field word search) before the word you are searching for in the database. When you enter the find screen you will notice the blue highlighted Perform button. This will drop down and select for a constraint search.

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The conclusion of the find search you will note you have selected 36/728 or you have selected 36 out of 728 records where the word "Hardell " is found the string of authors names.

Image: Second
IIII Google EME energy V AFL and Kayaks V News V Radio V Travel V Football - Soccer V Weather V Banks and Super V Cor
Research_Review_V4 (N432)
Article Exposure ARPANSA Categories Effects Categories Study Statistics Bradford Hill Criteria
Title Use of mobile and cordless phones and survival of patients with glioma
1st Author Hardell Check for other publications by Main Author
Authors Hardell L, Carlberg M.
Web URL http://www.ncbi.nlm.nih.gov/pubmed/23095687?dopt=Abstract URL
Synopsis Below Record Added by Steve Weller Date Published 24/10/2012
Aim : Survival of patients after glioma diagnosis in relation to the use of mobile phones and cordless phones was investigated in a case-control study in Sweden. The present study is based on the study population of the case-control studies of Hardell et al (2006), Hardell et al (2011) and Hardell et al (2010).
Results: For glioma, the use of wireless phones (mobile and cordless phones) gave a hazard ratio (HR) = 1.1 (95% confidence interval, CI = 0.9-1.2), with > 10-year latency HR = 1.2 (95% CI = 1.002-1.5, p trend = 0.02). For astrocytoma grade I-II (low-grade), the results were, HR = 0.5 (95% CI = 0.3-0.9) and for astrocytoma grade IV (glioblastoma), HR = 1.1 (95% CI = 0.95-1.4), with > 10 year latency HR = 1.3 (95% CI = 1.03-1.7). In the highest tertile (> 426 h) of cumulative use, HR = 1.2 (95% CI = 0.95-1.5) was found for glioblastoma. The results were similar for mobile and cordless phones.
Conclusion : Decreased survival of glioma cases with long-term and high cumulative use of wireless phones was found. A survival disadvantage for astrocytoma grade IV, but a survival benefit for astrocytoma grade I-II was observed which could be due to exposure-related tumour symptoms leading to earlier diagnosis and surgery in that patient group
Result Effect Excluded from Statistics

You can page through the found set beside the found set you can also select the Omitted set (or all the records not found. As shown in the drop down you can select all the omitted records. This is very useful when you are looking at exclusion finds where you are searching for a condition OR another condition. Some examples are shown below

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Authors	Hardell L, Carlberg M.	1 / 692 Unsorted	i			
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	rvival of patients after glion ted in a case-control study	Omit Record		hones and cordle		
control st	tudies of Hardell et al (200	×		0).		
(95% con 0.02). Fo astrocyto = 1.03-1	nfidence interval, CI = 0.9-1 r astrocytoma grade I-II (lo ma grade IV (glioblastoma) .7). In the highest tertile (>	ss phones (mobile and cord .2), with > 10-year latency I w-grade), the results were, I HR = $1.1 (95\% \text{ CI} = 0.95 - 426 \text{ h})$ of cumulative use, H r for mobile and cordless ph	HR = 1.2 (95%) HR = 0.5 (95%) 1.4), with > 10 R = 1.2 (95%)	CI = 1.002-1.5, p CI = 0.3-0.9) and year latency HR =	o trend = d for = 1.3 (95% CI	
found. A observed	survival disadvantage for as	ioma cases with long-term a trocytoma grade IV, but a su ssure-related tumour sympto	urvival benefit f	or astrocytoma gr	ade I-II was	
	E					
Result	Effect T fr	om On Con	Review	Reports	EXIT	

Example 1. Select all the epidemiological studies that show effect <u>AND</u> have brain tumours in the effect.

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) Total 728 + - II	Q Quick Find
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Authors Hardell L, Carlberg M.	75 / 728 Unsorted	
Web URL http://www.ncbi.nlm.nih	Show All Records	URL
Synopsis Below Record	Show Omitted Only	Published 24/10/2012
Aim : Survival of patients after glion investigated in a case-control study control studies of Hardell et al (200	Omit Record	hones and cordless phones was e study population of the case- 0).
Results: For glioma, the use of wireless (95% confidence interval, CI = 0.9-1.2), 0.02). For astrocytoma grade I-II (low-g astrocytoma grade IV (glioblastoma), HI = $1.03-1.7$). In the highest tertile (> 42 glioblastoma. The results were similar for	with > 10-year latency HR = $1.2 (95\%)$ rade), the results were, HR = $0.5 (95\%)$ R = 1.1 (95%) CI = $0.95-1.4$), with > 10 5 h) of cumulative use, HR = $1.2 (95\%)$ CI	CI = 1.002-1.5, p trend = CI = 0.3-0.9) and for year latency HR = 1.3 (95% CI
Conclusion : Decreased survival of gliom found. A survival disadvantage for astro- observed which could be due to exposur that patient group	cytoma grade IV, but a survival benefit fo	or astrocytoma grade I-II was
Result Effect Texclu	O n	Reports EXIT

Step 1. Start by showing all records on the drop down search

Step 2 Enter Find search and select from the main screen

Result ==Effect (== means match entire field) ensures only the field with Effect is select and other drop down items in the list like "No Effect" are excluded. Also tick the radio-button <n> in the "Exclude from Statistics" so you only include those studies with data available and these are not reviews of other researches data.

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Step 3. On the ARPANSA categories screen check the radio button <y> for the Epidemiological field. You can also select those studies with prospective design if you wish and exclude short-term studies.

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ticle Exposure ARPANSA Catego	ries Effects Categories Study Statistics Bradford Hill Criteria
InVitro On	The exposure of living cells (or other components of an organism) outside the human or animal (in vitro).
InVivo	The exposure of living animals (in vivo). In either case, one can look for
Оу	increases in disease, for changes in physiology, or for subtle biochemical or other changes than might help predict possible harmful effects on
Animal Study	humans or the environment.
0.	The science of radiofrequency dosimetry provides the link between the
Dosimetry Or	external and internal electric and magnetic fields and radiation, and the deposition of energy within the living cells and other structures of the
	human body.
Human Provocation	Deliberately expose human volunteers under controlled circumstances in what are termed human provocation studies. Ethical and practical
<u>_</u> Y	considerations generally limit these studies to short-term (acute) exposures, effects such as changes to physiology or perceptions by the
	subject.
Epidemiology	Epidemiology provides a means of examining the incidence of human disease in real-life situations. This area of research hopes to link
<u>о</u> у	increases in disease to a particular chemical, life-style or agent such as RF electromagnetic fields. However, because the exposures are not
Prospective Design	controlled as in a laboratory study, the results can be difficult to interpret.
ARPANSA Source	ARPANSA Summary
Funding Source	
	j

Step 4. You can select the "Effects Categories" screen by selection the TAB at the top on the main screen. You can check the radio button to <y> at the top right hand corner of the screen tagged as <Brain Tumour>

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Article Exposure ARPANSA Ca	tegories Effe	ects Categories	Study Sta	atistics Bradford Hill Criteria	
Auditory dysfunction (AD)	On Apop	tosis (Cell Death) (AP	On Oy	Brain Tumours (BT)	On Oy
Blood Brain Barrier Permeability Changes (BB)	On Breast	Cancer (BC)	On Oy	Cellular Stress (CS)	On Oy
Brain Developmental Issues/Changes/ Neurological degeneration (BD)	On Oy Biocher	mical changes (BI)	On Oy	EEG changes (EG)	On Oy
Behavioural Modification / Cognitive Function Impairment (BM)		gularities/Cell Damage ological changes (CI)	On Oy	Effects Mitochondria (EM)	On Oy
Calcium Influx/Efflux (CA)	On Oy Fatigue	: (FA)	On to Oy	Altered Enzyme Activity / Protein Damage / Altered Protein Levels (EA)	On Oy
Circadian Rhythm Disruption (CR)	On Altered O	Gene Expression (GE)	On Oy	Headaches (HA)	On Oy
DNA Damage/Mutagenic/ Genotoxic (DD)	On (GM)	Glucose Metabolism	On Oy	Inflammation (IN)	On Oy
Endocrine / Serotonin / Melatonin / Hormone effects/Immune System (EN)	On Oy Heart Ra	te Variability (HR)	On Oy	Insomnia (IS)	On Oy
Miscarriage/Spontaneous Abortion(pregnancy) (MC)	On Mast Ce Chronic	II Degranulation illness ((MD)	On Oy	Impaired /Reduced Healing Bone Density changes (RH)	On Oy
Memory Retention/Impairment issues (MR)	n Oxidative Oxides, F Peroxidat	Stress / ROS /Super ree Radicals, Lipid ion (OS)	On Oy	Speech impairment (SI)	On Oy
Sperm Effects / Viability/Motility/Damage / Testicular morphology changes (SE)	On Sleep Per (SP)	erformance Issues	On Oy	Tinnitus and Hearing loss(TN)	On Oy
Tumour Promoter (TP)	On Oy Glioma		On Oy	Meningioma	On Oy
Acoustic Neuroma	On Ocular e	effects	On Oy	Autsim	On Oy
Leukemia	On Oy Other E	ffects			
				Find Summary Tot	als

Step 5 : The last step is to perform a find and select all those records that meet the selected criteria with an AND search. You will not you have found 23 records out of 728 that meet the criteria

Result <Effect> AND Exclude from Statistic <n> AND Epidemiological study <y> AND Prospective Design <y> AND Brain Tumours <y>

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Article	Exposure ARI	PANSA Categories	Eff	ects Catego	ories	Study S	tatistics	Brac	lford Hill C	Criteria		
Title	Mobile phone r carcinogen (2A	adiation causes	brain tu	mours and	d should	be class	sified as	a proba	ble huma	an		
1st Author	Morgan					Check f	or other p	ublication	ns by Main	h Author		
Authors	Morgan LL, Mill	ler AB, Sasco A,	, Davis D	L.								
Web URL	http://www.ncl	bi.nlm.nih.gov/p	oubmed/	25738972	?dopt=A	bstract				UR	L	
Synops	sis Below	Record Adde	d by	Steve We	ller	•	Date Pu	blished	25/02/	2015		
for a deca CERENAT, population been take published carcinoge data shou	NAT finding of ir ade or longer and exposure to RF- n of France durin en into account, t . We conclude th n under the crite and be gathered of i routers to evalu	d corroborate th –EMF from digit ng the period of the risks of glior hat radiofrequen eria used by the on exposures to	ally enhated this student this	have sho anced cord dy, was no mobile ph should be tional Age and cordle	wn a risk dless tele ot evaluat none use e classifie ncy for R	of mer phones ed. If e in CERE ed as a esearch	ingioma (DECTs) xposures NAT are Group 2/ on Cano	from m , used b s to DEC likely to a 'probat cer (Lyon	obile pho by over h T phone be high blé huma n, France	one use. alf the s could her than an e). Additi	In nave ional	
Result	Effect	Trom	ed	n								

You can now page through the records.

Example 2. Select all the studies that show effects either in the Breast Cancer field <u>OR</u> show effect in the Giloma field.

In order to do this research you need to do a found search which is an AND search and look for the Omitted records. So you will find all this records that have a <n> tag in the Giloma and Breast Cancer field as shown below. This might feel wrong but remember we will be finding all the OMITTED records which will mean they must be tag with a <y> being a different state to the Find search.

C n432.fmphost.com ⅲ Google EME energy 🗸 AFL and Kayaks 🗸 News 🗸 Radio 🗸 Travel 🗸 Football - Soccer 🗸 Weather 🗸 Banks and Super 🗸 Commun Research Review V4 (N432) *_ ָ Ð $\bigcirc \quad = < - > -$ Cancel Article Exposure ARPANSA Categories Effects Categories Study Statistics Bradford Hill Criteria Apoptosis (Cell Death) (AP) Brain Tumours (BT))n n Auditory dysfunction (AD) n y Blood Brain Barrier Permeability Changes (BB) **o**n Cellular Stress (CS) n Breast Cancer (BC))n)v)v Brain Developmental Issues/Changes/ Neurological degeneration (BD) n Biochemical changes (BI) n EEG changes (EG))n Behavioural Modification / Cognitive Function Impairment (BM) Cell Irregularities/Cell Damage /Morphological changes (CI) n n n Effects Mitochondria (EM) v Altered Enzyme Activity / Protein Damage / Altered Protein Levels (EA) Calcium Influx/Efflux (CA) n Fatigue (FA))n)n Headaches (HA) Circadian Rhythm Disruption (CR) Altered Gene Expression (GE) n n n Altered Glucose Metabolism (GM) DNA Damage/Mutagenic/ Genotoxic (DD) n Inflammation (IN) n)n Endocrine / Serotonin / Melatonin / Hormone effects/Immune System (EN) Insomnia (IS) n n n Heart Rate Variability (HR) Impaired /Reduced Healing Bone Density changes (RH) Mast Cell Degranulation Chronic illness ((MD) Miscarriage/Spontaneous Abortion(pregnancy) (MC) n n n Oxidative Stress / ROS /Super Oxides, Free Radicals, Lipid Peroxidation (OS) Memory Retention/Impairment issues (MR) Speech impairment (SI) n)n n Sperm Effects / Viability/Motility/Damage / Testicular morphology changes (SE) Sleep Performance Issues (SP) Tinnitus and Hearing loss(TN) n n n Tumour Promoter (TP) n n)n Glioma Meningioma Autsim Acoustic Neuroma Ocular effects n n n Leukemia n Other Effects Find Summary Totals

Step 1. Perform a Find search and tag the fields as shown below.

Step 2. Perform the find and as show below. The search has selected 711 records but 17 have been omitted. It's the omitted records that are the relevant records. These records will have either a $\langle y \rangle$ in the breast cancer or a $\langle y \rangle$ in the Giloma field. So select the Show Omitted Only.

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Auditory dysfunction (AD)	17			711	in Tumou	ırs (BT)	On ⊖y
Blood Brain Barrier Permeability Changes (BB)		728 Total F	Records		ular Stre	ss (CS)	⊙n ⊖y
Brain Developmental Issues/Changes/ Neurological degeneration (BD)	-0	1 / 711 Ur	nsorted		S change	s (EG)	on ⊖y
Behavioural Modification / Cognitive Function Impairment (BM)	Sh	ow All Recon	ds		ects Mitor	chondria (EM)	on ⊖y
Calcium Influx/Efflux (CA)	Sh	ow Omitted (Only		d Enzyme ge / Altere	Activity / Prote ed Protein Level	ein Is (EA) On Oy
Circadian Rhythm Disruption (CR)	Or	nit Record			daches (I	HA)	⊙n ⊖y
DNA Damage/Mutagenic/ Genotoxic (DD)	Dy (or	>	č	Оу	ammatio	n (IN)	<mark>⊙</mark> n ⊖y
Endocrine / Serotonin / Melatonin / Hormone effects/Immune System (EN)	n y Hear	t Rate Variabilit	y (HR)	<mark>⊙</mark> n ⊖y	Insomnia (IS	5)	on ⊖y
Miscarriage/Spontaneous Abortion(pregnancy) (MC)		t Cell Degranula onic illness ((MD		On ⊖y	Impaired /Re Density chan	duced Healing ges (RH)	Bone on
Memory Retention/Impairment issues (MR)	Oxide	ative Stress / RO es, Free Radicals, idation (OS)	S /Super , Lipid	n Oy	Speech impa	irment (SI)	on ⊖y
Sperm Effects / Viability/Motility/Damage / Testicular morphology changes (SE)	on Slee (SP)	p Performance	Issues	On ⊖y	Tinnitus and	d Hearing loss	(TN) On y
Tumour Promoter (TP)	Dr Glio	ma		On ⊖y	Meningioma		on ⊖y
Acoustic Neuroma	Ocu	lar effects		On ⊖y	Autsim		on ⊖y
Leukemia	Oth	er Effects					
						Find Summ	

3. Alternative Method of Searching for Duplicates In Data Base

To check if there are Duplicates you can do a search of the Main Author by depressing the button < Check for other publications by Main Author>.

This will do a search of all the publications with the Main Authors surname. The following summary screen is a search for surname MEGHA. The search has returned 6 records from the total number of record. You can check to see if the title is listed twice and in this example the record has been entered twice. The publication on Cognitive Impairment is repeated twice

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3/2016 Title	Authors	Date
Low intensity microwave radiation induced oxidative stress, inflammatory response and DNA damage in rat brain	Megha K, Deshmukh PS, Banerjee BD, Tripathi AK, Ahmed R, Abegaonkar MP	25/10/201
Effect of Low-Intensity Microwave Radiation on Monoamine Neurotransmitters and Their Key Regulating Enzymes in Rat Brain.	Megha K, Deshmukh PS, Ravi AK, Tripathi AK, Abegaonkar MP, Banerjee BD.	12/02/201
Cognitive Impairment and Neurogenotoxic Effects in Rats Exposed to Low-Intensity Microwave Radiation.	Deshmukh PS, Nasare N, Megha K, Banerjee BD, Ahmed RS, Singh D, Abegaonkar MP, Tripathi AK, Mediratta PK.	05/03/201
Cognitive Impairment and Neurogenotoxic Effects in Rats Exposed to Low-Intensity Microwave Radiation.	Deshmukh PS, Nasare N, Megha K, Banerjee BD, Ahmed RS, Singh D, Abegaonkar MP, Tripathi AK, Mediratta PK.	05/03/201
Effect of low level microwave radiation exposure on cognitive function and oxidative stress in rats	Deshmukh PS, Banerjee BD, Abegaonkar MP, Megha K, Ahmed RS, Tripathi AK, Mediratta PK	01/04/201
Detection of Low Level Microwave Radiation Induced Deoxyribonucleic Acid Damage Vis-à-vis Genotoxicity in Brain of Fischer Rats.	Deshmukh PS, Megha K, Banerjee BD, Ahmed RS, Chandna S, Abegaonkar MP, Tripathi AK	01/01/201

Note: The yellow bar the script is paused at the stage. The continue button is on the far right of this yellow bar. This will take you back to the main screen.