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Public Comments on Developing an Unified Intercarrier Compensation:=====

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This the the second EMR Policy Institute transmittal with Appendix A Exhibit 1.

FCC 09-31 Notice of Inquiry GN Docket No. 09-51 - Broadband Plan for Our Future

EXHIBIT TABLE to accompany the Comment of The EMR Policy Institute **June 7, 2009**

No.	Name		City State	Info	TYPE
1	Litovitz, Theodore	PhD, Physics	Catholic University	Presentation used at Congressional Staff Briefing	
2				<i>Pathophysiology</i> , March 2009	Journal articles
3	Hillman, Donald	PhD Animal Science	East Lansing MI	Analysis of RF in home	Affidavit
4	Tully, Lisa	PhD Toxicology and Pharmacology	Boulder CO	Developing EHS test	Affidavit
5	Schou, John	PhD Agronomy Researcher	Cedar Falls IA	EHS symptoms wife had to move to WV	Affidavit
6	Schou, Diane	PhD Industrial Technology	Green Bank WV	Industrial Technology Severe EHS had to move to WV husband in IA	Affidavit
7	Bruno, William	PhD, Physics Researched at Los Alamos	Santa FE NM	Severe symptoms Comment in NAS record	Affidavit
8	Dauble, Janet	Non-profit organization	Frazier CA	MCS EHS support group founder increase in 10 yrs	Affidavit
9	Carney, Deborah	JD. BA-Human Biology	Golden CO	EMRPI VP CARE counsel Research subject	Affidavit
10	Fox, Nicols	Journalist	Renick WV	Documents severe EHS moved from ME to WV	Affidavit
11	Kleiber, Daniel	Farmer beekeeper	Waterloo WI	Type 1 diabetic documented insulin effects	Affidavit
12	Kleiber, Catherine	BA in biological science	Waterloo WI	Severe microwave sickness Dirty power and RF reactions Young children react as well	Affidavit
13	Savarin, Evelyn		Hampton NH	EHS from education exposure Documents with own meters	Affidavit

13B	Gherzi, Alex	Savarin's landlord	Hampton NH	Landlord to Savarin child can now sleep with WiFi off	Affidavit
14	Hurston, Ronald	M.D.	Wayland, MA	"It invites potentially tragic public health consequences."	Affidavit
15	Patton, Margaret	2-time cancer survivor	Wayland MA	Close to tower long legal battles to enforce zoning	Affidavit
16	Ide, Judith	Concerned citizen	Wayland, MA	Close to tower long legal battles to enforce bylaw	Affidavit
17	Lettieri, Linda	Liver cancer survivor	Fishkill NY	Had to leave job because cell tower was erected there	Affidavit
18	Pape, Beverly	Breast cancer	Dallas TX	Still in treatment for cancer EHS headaches cognition	Affidavit
19	Kayda, Valetta	2 brain tumors	Kelso WA	Tumor treatment caused EHS Moved 3 times already	Affidavit
20	Singer, Katie	EHS Reproductive health educator	Santa Fe, NM	Written 2 books on reproductive health has severe symptoms herself	Affidavit
21	DiGennaro JoTina	Substitute teacher Husband has prostate cancer	Bayville NY	Water tower antennas 50 ft from school deed covenant violated	Affidavit
22	Perrin, Madeleine	Mother of 2 young kids	Bayville NY	Can't get kids into another school tower 50ft away	Affidavit
23	Rollans, Marian & James	Farmers 39 years	Mt. Ulla NC	Fighting broadcast towers 3 cell towers close by EHS symptoms	Affidavit
24	Webster, Betsy	Concerned parent	Mt. Ulla NC	Fighting broadcast proposal 15 towers already nearby	
25	Davis, Ruth	EHS sufferer	Ouray CO	Notarized version to follow	Affidavit

26	Hinson, Katherine	Mother 15yr 13yr boys EHS	Plymouth VT	Left GA for boys' health	Affidavit
27	Russo, Kristin	Mother of 3 kids	Burlington MA	Water tower antenna at school Moved recently to avoid	Affidavit
28	Clark, Gayle	mother 14 yr old son	Sedgwick KS	WiFi at school and work Tower proposed near home	Affidavit
29	Hackett, Lucy	EHS Injury began in college	South Bend, IN	Difficulty finishing degree Antennas close to home and family now	Affidavit
30	Danner, Ruth		Juneau AK	2 WiMax towers proposed 4 co-locators proposed at church with daycare	Affidavit
31	Bubnis, Michelle	EHS neighbor's WiFi	Austin TX	many antennas One at church can no longer attend	Affidavit
32	Zack, Corina	Concerned citizen	Arlington Heights, IL	Antenna in church across the street from home	Affidavit
33	Reilly, Sarah	MCS EHS	Fairfax, CA	Has to move often 2003 WiFi brought it on	Affidavit
34	Frumberg, Maria	EHS Dr. Rea :letter	Plano, TX	Had to drop wireless TV access Letter from city shows no concern about WiFi	Affidavit
35	Ordogne, Kimberly	EHS	Plano, TX	Had to leave home Citywide WiFi No sympathy from city	Affidavit
36	Feudale, Elizabeth	MCS EHS Allergies immune problems	Allentown, PA	Cell towers nearby cannot tolerate home electronics	Affidavit
37	Olson, Veronica	Concerned parent	Plano, Texas	Concerned about citywide WiFi exposure to children	Affidavit
38	Hillman, Howard	Concerned citizen	Plano, Texas	Concerned about citywide WiFi exposure to children and immune-compromised people	Affidavit
39	Flynn, Angela	EHS came at job training near	Bethesda, MD	Moved to ease exposure EHS symptoms are Sleep muscle aches cognition	Affidavit

		antennas			
40	Lizik, Kyrie	EHS	Washington County WI	Smart meter aggravates Cannot use library – WiFi	Affidavit
41	Barris, Elizabeth	EHS documentary film maker	Santa Monica CA	Airport exposure an issue Must travel for work	Affidavit
42	Avola, JeanMarie	Concerned parent	Stoneham MA	Cell towers and WiFi in and near children’s schools	Affidavit
43	Kelley, Elizabeth	Bioelectromagnetics Society member	Tucson ARIZ	Cell towers and WiFi in neighborhood Son’s school has WiFi	Affidavit
44	Boca Raton, Florida	States of Colorado and Connecticut, Los Angeles County	Portland, Oregon Los Angeles public school district	US states and municipalities are calling for revision of Section 704	Proclamations and Resolutions
45	National Academies of Science	January 2008 Report		<i>Identification of Research Needs Relating to Potential Biological or Adverse Health Effects of Wireless Communication Devices (NAS Report)</i>	Research base inadequate for today’s exposures
46	FDA nominates RF	To National Toxicology Program		Radiofrequency Radiation Emissions of Wireless Communication Devices	Research does not address typical RF exposures
47		NTP 2005 Fact Sheet on RF research	US federal government	Underscores inadequacy of research upon which US RF safety limits are based	
48	Carpenter, MD, Sage, Cindy	<i>The BioInitiative Report</i>	www.bioinitiative.org	<i>A Rationale for a Biologically-based Public Exposure Standard for Electromagnetic Fields (ELF and RF)</i>	On-line meta-analysis of EMR research
49 & 50	Carpenter and Sage	<i>Reviews in Environmental Health</i>	Peer-reviewed Scientific journal	<i>“Setting Prudent Health Policy for Electromagnetic Exposures”</i>	Journal article
51	Horst Eger, Klaus Uwe Hagen, Birgitt Lucas, Peter Vogel, and Helmut Voit	<i>Umwelt-Medizin-Gesellschaft</i> 17,4 2004,	Research requested by German federal government	“The Influence of Being Physically Near to a Cell Phone Transmission Mast on the Incidence of Cancer”	Peer-reviewed Journal article
52	Carpenter	Amicus brief and	Review research	warn of the potential health consequences for	

	Olden Grigoriev Havas	statements on RF radiation and school children	and existing EMR safety limits	many students and staff if wireless technologies are deployed in their workplaces.	
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Dr. Theodore Litovitz

**Director of the BioElectromagnetics Laboratory
Catholic University of America
Washington DC 20064**

Biological Effects of Electromagnetic Fields

Since 1984 the BioElectromagnetics Group has been funded by:

**US Army Medical Command
National Institute of Environmental Health Sciences
EMX Corporation
McGowan Charitable Foundation
John T. LaMacchia Charitable Trust**

FCC 09-31 Exhibit 1

ELECTROMAGNETIC FIELDS



BIOLOGICAL EFFECTS



HEALTH EFFECTS

HAVE ANY BIOLOGICAL EFFECTS
BEEN OBSERVED AFTER EXPOSURE
TO
NON-THERMAL ELECTROMAGNETIC
FIELDS?

Many scientific publications have reported non-thermal biological effects at exposure levels below that considered “safe” by most government agencies.

Biological Effects Induced by RFR Below Present Day Permissible Level

Standard for Cell Phone RFR (6 W/kg)

How Much Below The Standard ?

- Psychological Changes (.03 W/kg) 1/50
- Affects Immune System (.015 W/kg) 1/33
- Increases Calcium Efflux (.005 W/kg) 1/300
- Induces DNA Damage (.0024 W/kg) 1/600
- Induces Stress Response (.001 W/kg) 1/600
- Affects Blood Brain Barrier (.0004 W/kg) 1/2500
- Affects Calcium in Heart (.00015 W/kg) 1/6000
- Enhances Cell Proliferation (.000021 W/kg) 1/46000

Cellular telephone use reduces melatonin levels.

Annual Reviews of Bioelectromagnetic Research (1997)

Cancer Morbidity is increased by exposure to high frequency EM radiation.

Science of Total Environment (1996)

Mobile phones modulate response of patterns of brain activity.
Neuroreport (1998)

Exposure to 2450 MHz microwaves affects water maze learning in the rat.

Bioelectromagnetics (2000)

Long term exposure to 900 MHz EM fields can enhance tumor incidence.

Radiation Research (1997)

GSM phone radiation affects auditory brainstem response.

Neurobiology (1999)

Radiofrequency electromagnetic radiation

induces DNA strand breaks.

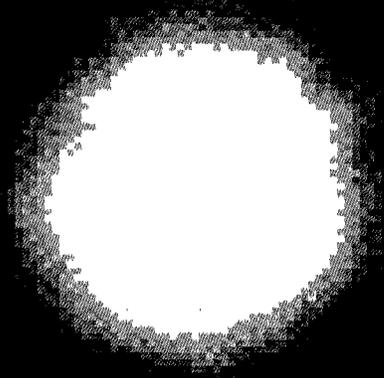
Bioelectromagnetics (1997)

DNA Strand Breaks

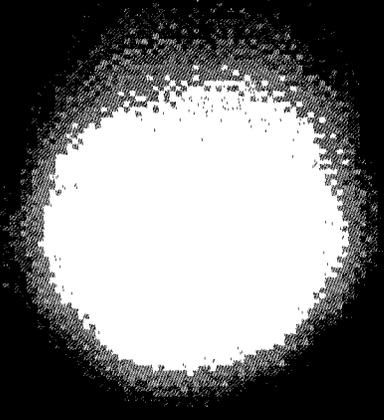
Exposure to 0.6 W/Kg Cell Phone Radiation

Lai et. al. University of Washington

DNA Patterns



Unexposed cells
No Strand Breaks



EM exposed cells
Strand Breaks Occur

WHY IS THERE STILL SO MUCH
CONTROVERSY OVER RFR
SAFETY?

REPLICATION
PROBLEMS!

DOES THIS REPLICATION
PROBLEM ONLY OCCUR
IN
BIOELECTROMAGNETIC
EFFECTS?

NO!

Let's consider a problem involving
drug toxicity.

IS DRUG X HARMFUL ?

DOES IT INDUCE DEFORMED LIMBS IN NORWAY RAT EMBRYOS?

Exp #1 Exp #2

Treated 60% 0%

Controls 80% 0%

Teratogen ?? YES NO

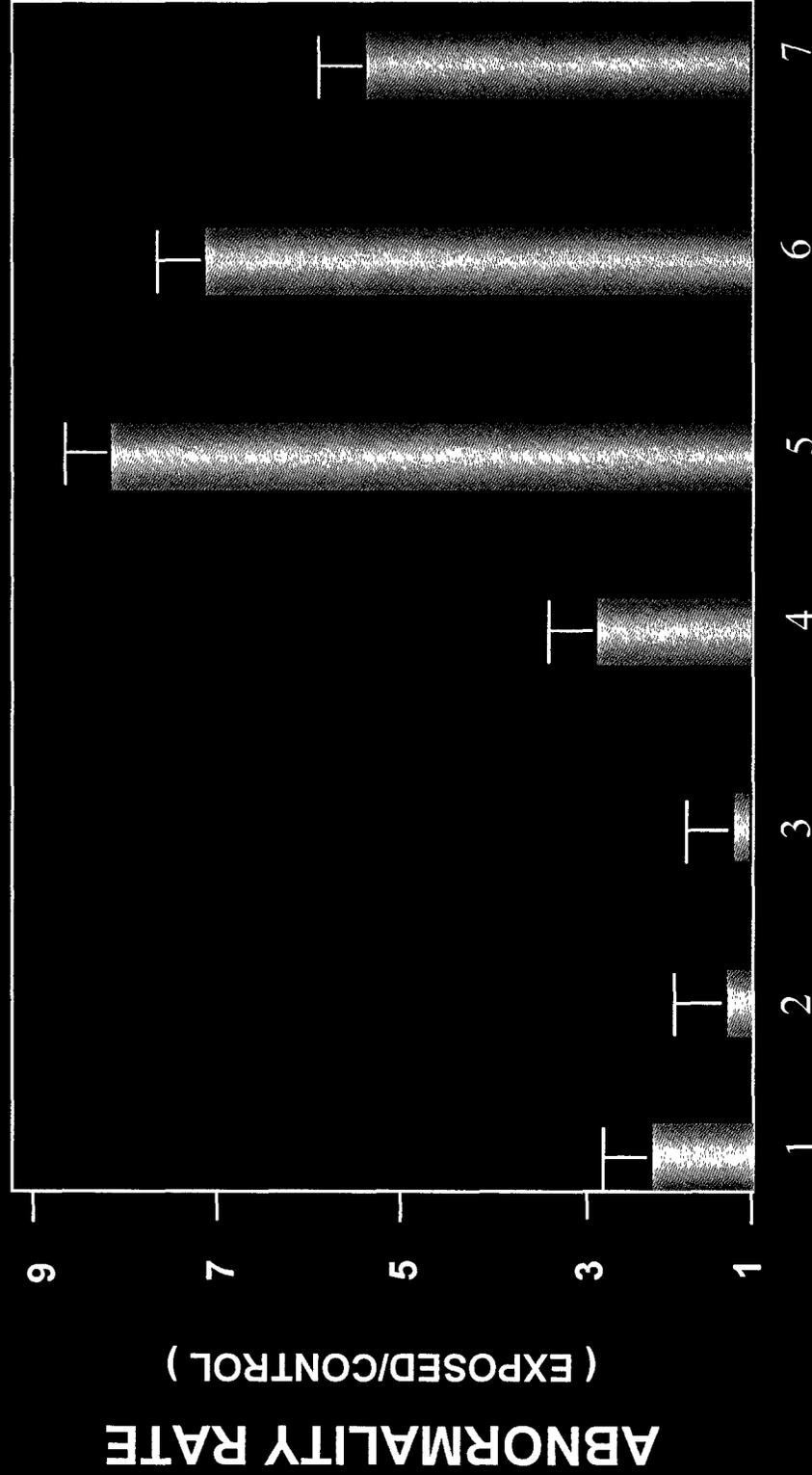
STRAIN #1 STRAIN #2

DRUG X = THALIDOMIDE

STRAIN #1 HAS A MUTANT GENE

IS GENETICS A CONFOUNDER IN REPLICATION STUDIES?

EMF INDUCED ABNORMALITIES IN CHICK EMBRYOS



FLOCK NUMBER

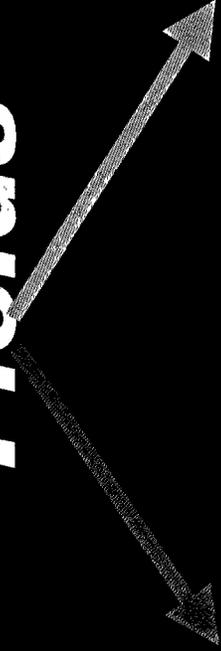
Electromagnetic

Fields

Energy/Heat

Information

Biologic Cell



**Weak, non-thermal electromagnetic fields
can induce biological effects.**

***Present day safety standards
do not take this into account!***

Weak Electromagnetic Fields Induce Biological Effects.

WHEN ARE THEY ADVERSE?

WHEN ARE THEY BENEFICIAL?

**Everything is a poison.
It is only a question of dose.**

Paracelsus 1493 - 1541

A single 30 minute exposure to an EM field can be beneficial

The same exposure occurring daily will be detrimental

SUMMARY

**WEAK ELECTROMAGNETIC FIELDS CAN
INDUCE NON-THERMAL BIOLOGICAL**

EFFECTS

THEY CAN BE ADVERSE

THEY CAN BE BENEFICIAL

THEY CAN BE INCONSEQUENTIAL

*It is only a question of dose.
To protect public health we must determine
the allowable dose for each of the above
conditions.*