

Toxoplasma Gondii

- the main culprit ?

...work in progress, please share, analyse and discuss

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Toxoplasma Gondii is all over

- 30-80 % infection rate, i.e a *majority* of the worlds population is infected**
- Affects +3000 genes in a human being**
- Connects to almost all “large” health issues - both physically and psychologically**
- Connects to a number of societal issues**
- Is extremely old and very sophisticated**

Connects to....

Cancers, Diabetes, Lupus, MS, Autoimmune conditions, Cardiac conditions, Anxiety, Schizophrenia, Depression, OCD, ADHD, Parkinsons, Alzheimer's and so forth.

Also connects to “perception of time”, “human error” and cognitive dissonance.

Introduction to biology and cycle

Spend 12 important minutes on this educational video:

<https://www.youtube.com/watch?v=hIKOVvAeq88>

TG is extremely intelligent

Prof. PhD Robert Sapolsky, Stanford:

“TG knows more about neurology than thousands of human experts”

See this 30 minute interview with this great scientist:

<http://www.youtube.com/watch?v=m3x3TMdkGdQ>

TG subtly affects the psychology of an infected person..... this is extremely important!

Reduces interest for *novelty*, i.e it reduces

Curiosity and promotes fear - fear is poison to curiosity

Promotes *aggressiveness* in males and *conformity* in females

Controls synthesis of *Dopamine* - the key to the human psyche

Mainstream science: TG could be controlling our brains...

<http://www.scientificamerican.com/article/fatal-attraction/>

<http://news.nationalgeographic.com/news/2013/01/220113-sneaky-cat-parasite-takes-over-human-brains-science/>

<http://www.isciencetimes.com/articles/4792/20130328/toxoplasma-gondii-brain-parasite-40-percent-infected.htm>

<http://www.independent.co.uk/news/science/cat-parasite-toxoplasma-uses-trojan-horse-to-infect-human-brain-and-may-cause-suicidal-thoughts-and-risktaking-8390165.html?origin=internalSearch>

“Highjack of Amygdala”

TG can *control* the synthesis of Dopamine (and Testosterone) and thereby “highjack” the reptile brain.

Seems as if TG is instrumental in *Fear Conditioning*

<http://www.ncbi.nlm.nih.gov/pubmed/23104989>

http://majorityrights.com/weblog/comments/toxoplasma_gondiiis_surgical_strike_against_the_amygdala/

Affects production of Testosterone ... and thus behaviour

<http://web.natur.cuni.cz/flegr/pdf/humtesto.pdf>

Alters our brain chemistry and behaviour

<http://www.sciencedaily.com/releases/2011/11/111104102125.htm>

<http://jeb.biologists.org/content/216/1/113.abstract>

<http://schizophreniabulletin.oxfordjournals.org/content/33/3/757.full>

<http://www.ncbi.nlm.nih.gov/pubmed/16332418>

Extreme efficient distribution

For instance through drinking water...

<http://www.ncbi.nlm.nih.gov/pubmed/10355797>

<http://www.ncbi.nlm.nih.gov/pubmed/22990578>

<http://onlinelibrary.wiley.com/doi/10.1002/clen.201200468/abstract>

...more than half the population of the world is expected to be infected.

Culprit in many diseases....

Journal of Pathogens, Vol. 2013:

"Toxoplasma gondii is not only implicated in schizophrenia and related disorders, but also in Alzheimer's or Parkinson's disease, cancer, cardiac myopathies, and autoimmune disorders".

“During its life cycle, the pathogen interacts with ~3000 host genes or proteins.”

<http://www.hindawi.com/journals/jpath/2013/965046/>

Links to Schizophrenia

“Evidence is mounting.....”

<http://www.news-medical.net/news/2005/10/18/13866.aspx>

Links to Diabetes

“Diabetes may be caused by Toxoplasma Gondii” (!)

http://ircmj.com/?page=article&article_id=5303

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2688793/>

**My wonderful daughter has Diabetes I.
If this is the culprit - the cure must be here
somehow too....**

Links to Cancer I

Significant link from France concerning Brain Cancer:

<http://www.infectagentscancer.com/content/8/1/8>

<http://www.health-matrix.net/2012/04/08/toxoplasmosis-neurological-pathologies-behavioral-changes-and-now-brain-cancer/>

Links to Cancer II

Interesting results from Chinese scientists:

Prevalence of *T. gondii* infection in cancer patients ranged from 24% [18] to 79% [19]. Prevalence of *T. gondii* infection varied with different cancers. **Rectal cancer and nasopharyngeal carcinoma** sufferers in Changchun city had the highest infection, **with prevalence of 63.6% and 46.2%**, respectively [18]. However, *T. gondii* infections in patients with **breast cancer, hepatocellular carcinoma and gastric carcinoma** in Henan Province were much higher than with other cancers, with a prevalence of **78.9%, 77.8% and 61.1%, respectively** [19].

http://download.springer.com/static/pdf/243/art%3A10.1186%2F1756-3305-4-165.pdf?auth66=1383943908_dd9395eb5dc08dd2cffa5f3c6588303c&ext=.pdf

Links to Cancer III

Turkish scientists made these observations:

Investigation of anti-Toxoplasma gondii antibodies in patients with neoplasia

Anti-T. gondii IgG antibodies were detected in 68 (63.0 %) patients and in 21 (19.4 %) of the controls, which was a statistically significant difference.

We found the seropositivity rates of anti-T. gondii IgG in Hodgkin's lymphoma, non-Hodgkin's lymphoma, leukaemia, multiple myeloma, lung carcinoma, **larynx carcinoma**, hepatocellular carcinoma, **breast cancer**, ovarian cancer and their ratios were as follows: 68.0, 60.0, 66.7, 73.3, 38.5, 50.0, **80.0**, 60.0, **80.0** and 63.0 %, respectively.

<http://jmm.sgmjournals.org/content/53/12/1183.full>

Affects the human psyche and culture (!!)

“While latent toxoplasmosis is usually benign, the parasite’s subtle effect on individual personality appears to alter the aggregate personality at the population level.”

<http://rspb.royalsocietypublishing.org/content/273/1602/2749.full>

From the web

* start quote *

"Toxoplasma Gondii has never been found in human or animal remains prior to the early Bronze Age. It is for all intents and purposes an entirely new organism in Biological History terms.

It didn't evolve from any known terrestrial organism and **everywhere the Toxoplasmosis infection rate hit 50% or higher caused the collapse of even advanced civilizations.**

On the mesoamerican super civilizations that rivaled and even exceeded lauded cultures such as ancient Egypt, Sumeria, Persia were mapping the stars, performing brain surgery, installing indoor plumbing when Toxoplasma Gondii in buried remains was less than 11% were a few decades later falling apart, perpetually at war and turning to population decimating regimes of human sacrifice when Toxoplasma Gondii infection levels reached 30% and by the time those civilizations collapsed had capped 50% rate of infected among their population. The descendants of these amazing people now wear loin cloths and hunt monkeys with blowguns and have a Toxoplasmosis infection levels in the 80% range.

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The USA was at less than 10% in the 1950s(our greatest period of growth,innovation with low incedents of social violence) and**now that our civilization is delaminating we find Toxoplasma Gondii in 40% of the population.**

The UK by comparison has 14% rate of infection and are far more sane as a nation than the USA has become in recent years.Cats may be the most common vector but direct transmission if often overlooked and if studies both in the US and abroad place 89% of all Schizophrenics squarely in the infected population then how many infected people are mildly psychotic or deranged and still functioning.

Think about it,piercings,tattoos,sexual deviance all perfect methods for transmitting the parasite and all of the types of "Risk Taking Behaviors" associated with Toxoplasma Gondii infection in lab rats.

As an aside **Toxoplasma Gondii also mimics the iron metabolism of many cancers and is starting to become a major source of concern among immunology and cancer studies as an underlying facilitator for many types of cancers."**

(MIB 6/1/2008 1:19:27 AM)"

* end quote *

<http://www.technovelgy.com/ct/Science-Fiction-News-Comments.asp?NewsNum=547>

Possible angles of attack for curing

Growth can be stopped and or killed by Haloperidol, Pyrimethamine, Artemisinin, lack of Vitamin B, probably THC/CBD, probably Nicotine, Garlic (!) and various herbs....

DMT and Anandamide could be of importance

***Melatonin* seems to play a crucial role together with the *Pineal Gland*.**

Herbs and oils effect

The maximum survival rate for T. gondii tachyzoites was 21.7% and 29.8% in doses 100 and 200 mg/kg/day by using ethanol extract of Piper nigrum respectively. Using the Curcuma longa ethanol extract, the survival rate was 1.4% and 0.8% in the two doses used respectively, which means the inhibition of growth was better at 98.6% and 99.2%. Similar results of inhibition of growth (99.3% and 98.7%) in vitro for the T. gondii proliferation were recorded when the alcohol extract of Torilis japonica and Sophora flavescens at 156 ng/ml in media added to wells containing T. gondii were used.[12]

The results of the oils of all home spices were considerable. Piper nigrum was more active as a growth inhibitor for T. gondii tachyzoites giving the percentage of 94.2% and 100% in the doses of 100 and 200 mg/kg/day, compared with that of Curcuma longa. The proliferation of the tested parasites was inhibited at 98.6% and 99.2% in the same doses used.

In conclusion, results of all the tested home spices from black pepper to the rhizome of curcuma using water or ethanol extraction solvents as growth inhibitors for the parasite, T. gondii were encouraging.

<http://www.jfcmonline.com/article.asp?issn=2230-8229;year=2009;volume=16;issue=2;page=59;epage=65;aulast=Al-Zanbagi>

....other possible cures links

[http://www.sid.ir/en/ViewPaper.asp?ID=103459&varStr=3.14159265358979;KHOUSHZABAN%20F..GHAZANFARI%20T..GHAFARIFAR%20FATEMEH,SHARAFI%20MAHDI,GHASEMI%20NIKOU%20S.;IRANIAN%20JOURNAL%20OF%20MEDICINAL%20AND%20AROMATIC%20PLANTS;FALL%202007;23;3%20\(37\);295;306](http://www.sid.ir/en/ViewPaper.asp?ID=103459&varStr=3.14159265358979;KHOUSHZABAN%20F..GHAZANFARI%20T..GHAFARIFAR%20FATEMEH,SHARAFI%20MAHDI,GHASEMI%20NIKOU%20S.;IRANIAN%20JOURNAL%20OF%20MEDICINAL%20AND%20AROMATIC%20PLANTS;FALL%202007;23;3%20(37);295;306)

Interesting affiliation with Plasmodium and Artemisinin

http://books.google.ro/books?id=kN5TdLzUngC&pg=PA29&lpg=PA29&dq=toxoplasma%20terpene%20OR%20sesquiterpenes%20OR%20alcaloid&source=bl&ots=_nXOi2CqI8&sig=iYUE8G5XYpHGM6viWNYG9uWv0UM&hl=ro&sa=X&ei=ITN5UruFOsTftAaL6IDwDA&ved=0CHIQQ6AEwBw#v=onepage&q=toxoplasma%20terpene%20OR%20sesquiterpenes%20OR%20alcaloid&f=false

....it is possible that through learning how to eradicate/control TG we will perhaps find the key to do the same to Plasmodium.....thus solving the problem of MALARIA !

Some interesting science on that subject here:

<http://www.medicalnewstoday.com/articles/270826.php>

Research led by a team of investigators at the Indiana University School of Medicine has detailed the discovery of a new protein and other proteins it connects with, which they say could lead to the development of new drugs that control *toxoplasma gondii* - the parasite that causes toxoplasmosis.

Connects to Nicotine in an interesting way

<http://www.llamp.net/?q=Nicotinate%20metabolism>

Effects of nicotine on novelty detection and memory recognition performance

CONCLUSIONS:

These data suggest that acute **nicotine administration** may exert **direct beneficial effects on novelty detection** and subsequent memory recognition in both smokers and nonsmokers.

<http://www.ncbi.nlm.nih.gov/pubmed/19488741>

The history of TG

**Excellent PDF on discovery (100 years ago)
etc.**

<http://naldc.nal.usda.gov/download/47190/PDF>

Kills mammals in the ocean

<http://www.newscientist.com/article/dn14037-the-worlds-most-successful-bug-hits-dolphins.html#UwxoCPRdU6c>

<http://www.ncbi.nlm.nih.gov/pubmed/23207018>

From the web

TG acts as several computer viruses working together

- it enters the dendritic white blood cells and it makes them produce a neurotransmitter, GABA, which they don't produce otherwise, so that they can cross the blood-brain barrier
- once in the brain it goes for the amygdala and reprograms it to switch fear with sexual attraction
- it enhances testosterone production in males and makes them more attractive to women
- it goes for the reproductive organs, both male and female and penetrates into the sperm
- it goes for immune suppressed individuals, such as ONES HAVING AIDS, AND for the cancerous cells
- it feeds on the B vitamin from the cells and takes the energy from the mitochondria

And the list goes on. So **how does this parasite have such in depth knowledge of human genetics and behaviour**

....and much, much more

The amount of available data, scientific analysis and facts concerning TG is almost overwhelming.

The overall picture is very clear - and there is a statistical significant reason to believe that TG is the most important mental- and physical healthcare issue of this century.