

A Virus that Causes Infertility

by Craig Paardekooper

I investigate an enigmatic virus that is built into the DNA of everyone, coded for by your own genome. Apparently, it has been residing within us for millennia, but is inactive because it is constrained and silenced by our biological regulatory systems. Its genetic sequence is very similar to reproductive and neural proteins, and it is very immunogenic, so if released or activated by immune system disruption, antibodies can form against it that can induce infertility and neuropathy by a process of molecular mimicry. Curiously, the conditions that release it, are associated with the HPV and COVID vaccines – and its effects have similarities with effects associated with those vaccines.

How I Discovered this Virus

I used BLASTp to see if there were any viruses that shared a close sequence with the human protein **Syncitin**. Syncitin is an **essential protein for reproduction**, and for **the production of HCG**.

I obtained the Syncitin aminoacid sequence here - <https://rest.uniprot.org/uniprotkb/Q9UQF0.fasta>

```
>sp|Q9UQF0|SYCY1_HUMAN Syncytin-1 OS=Homo sapiens OX=9606 GN=ERVW-1 PE=1 SV=1
```

```
MALPYHIFLFTVLLPSFTLTAPPPCRCMTSSSPYQEFLLWRMQRPGNIDAPSYRSLSKGTP
```

```
TFTAHTHMPRNCYHSATLCMHANTHYWTGKMINPSCPGGLGVTVCWYFTQTGMSDGGGV
```

```
QDQAREKHVKEVISQLTRVHGTSSPYKGLDLSKLHETLRTHRLVSLFNTTLTGLHEVSA
```

```
QNPTNCWICLPLNFRPYVSIPVPEQWNNFSTEINTTSVLVGPLVSNLEITHTSNLTCVKF
```

```
SNTTYTTNSQCIRWVTPPTQIVCLPSGIFVCGTSAYRCLNGSSESMCFLSFLVPPMTIY
```

```
TEQDLYSYVISKPRNKRVPILPFVIGAGVLGALGTGIGGITTSTQFYKLSQELNGDMER
```

```
VADSLVTLQDQLNSLAAVVLQNRALDLLTAERGGTCLFLGEECCYYVNQSGIVTEKVKE
```

```
IRDRIQRRAEELRNTGPWGLLSQWMPWILPFLGPLAAIIILLFGPCIFNLLVNFVSSRI
```

```
EAVKLQMEPKMQSKTKIYRRPLDRPASPRSDVNDIKGTPPEEISAAQPLLRPNSAGSS
```

Then I used BLASTp to see if this sequence matched any virus sequence. It found one virus whose sequence had an 87% match **with the entire Syncitin protein**. This virus was named – “recombinant envelope protein [**Multiple sclerosis associated retrovirus element**]” Sequence ID: [AAK18189.1](https://uniprot.org/uniprot/AAK18189.1). Out of 542 aminoacids in the Syncitin sequence, **MSRV** has 473 identical matches! The expectation value e is 0, meaning that there is zero chance of this being a match due to random chance.

What is MSRV?

The **Multiple sclerosis-associated retrovirus (MSRV)**, also referred to as a member of the **Human endogenous retrovirus-W (HERV-W)**, originates not from an external infection but from ancient retroviral sequences that became integrated into the human genome millions of years ago. These sequences are **normally inactive**, but under certain conditions—such as inflammation, infection, or environmental triggers—they can become reactivated and express proteins like the envelope protein (as in Sequence ID AAK18189.1). Expression of this envelope protein has been associated with immune activation and inflammation, particularly in the **central nervous system**.

Clinically, expression of MSRV/HERV-W envelope protein has been linked to neurological and autoimmune conditions, most notably **Multiple sclerosis**. Reported associated effects include **Demyelination**, **Transverse myelitis**, and **Peripheral neuropathy**, all of which involve damage or dysfunction of nerve fibers. These processes can lead to symptoms such as muscle weakness, sensory disturbances, impaired coordination, and chronic neurological disability. However, it is important to note that while MSRV/HERV-W expression is associated with these conditions, it is not definitively established as a sole causative agent, and diseases like multiple sclerosis are considered multifactorial, involving genetic susceptibility and environmental influences.

Here is the BLASTp output showing the degree of matching between Syncitin and Multiple Sclerosis Associated Retrovirus (**MSRV**). The "Query line" is Syncitin sequence. The "Subject line" is MSRV sequence.

recombinant envelope protein [Multiple sclerosis associated retrovirus element]						
Sequence ID: AAK18189.1 Length: 542 Number of Matches: 1						
Range 1: 1 to 542 GenPept Graphics						▼ Next Match ▲ P
Score	Expect	Method	Identities	Positives	Gaps	
1015 bits(2386)	0.0	Compositional matrix adjust.	473/542(87%)	478/542(88%)	4/542(0%)	
Query 1		MALPYHIFLFTVLLPSFTLTAPPPCRCMTSSSPYQEF LWRMQRPGNIDAPSYRSLSKGTP				60
Sbjct 1		MALPYH FLFTVLLP F LTAPPPC C TSSSPYQEF LWR PGNIDAPSYRSLSKG				60
Query 61		TFTAHTHMPRNCYHSATLCMHANTHYWTGKMINPSCPGGLGVTVCWYFTQTGMSDGGGV				120
Sbjct 61		TFTAHTHMPRNCY SATLCMHANTHYWTGKMINPSCPGGLG TVCWYFT+T MSDGGG+				120
Query 121		QDQAREKHVKEVISQLTRVHGTSSPYKGLDLSKLNHETLRTHTRLVSLFNTTLTGLHEVSA				180
Sbjct 121		Q QAREK+VKE ISQLTR H T SPYKGL LSKLNHETLRTHTRLVSLFNTTLT LHEVSA				180
Query 181		QNPTNCWICLPLNFRPYVSIPVPEQWNNFSTEINTT SVLVGPLVSNLEITHSNLTCVKF				240
Sbjct 181		QNPTNCW CLPL FRPY+SIPVPEQWNNFSTEINTT SVLVGPLVSNLEITHSNLTCVKF				240
Query 241		SNTTYTNSQCIRWVTPPTQIVCLPSGIFVCGTSAYRCLNGSSESMCFLSFLVPPMTIY				300
Sbjct 241		SNT TT SQCIRWVTPPT IVCLPSGIFVCGTSAY CLNGSSESMCFLSFLVPPMTIY				300
Query 301		TEQDLYSYVISKPRNKRVPILPFVIGAVL GALGTGIGITTSTQFYKLSQELNGDMER				360
Sbjct 301		TEQDLY V+ KP NKRVPILPFVI AGVLG LGTGIG ITTSTQFYKLSQE NGDME				360
Query 361		VADSLVTLQDQLNSLAAVVLQNRALDLLTAERGGTCLFLGEECCYYVNQSGIVTEKVKE				420
Sbjct 361		V DSLVTLQDQLNSLAAVVLQNRALDLLTA RGGTCLFLGEE CYYVNQS IVTEKVKE				420
Query 421		IRDRIQRRAEELRNTGPWGLLSQWMPWILPFLGPLAAIILLLLFGPCIFNLLVNFVSSRI				480
Sbjct 421		IRDRIQ RAEEL NT WGLLSQWMPW LPFLGPLAAII LLLFGPCIFN LV FVSSRI				480
Query 481		EAVK-----LQMEPKMQSKTKIYRPLDRPASPRSDVNDIKGTPPEEISAAQPLLRPNSAG				536
Sbjct 481		EAVK LQMEP MQS TKIYR PLDRPA SDVNDI TPPEEIS AQPLL NS G				540
Query 537	SS	538				
	SS					

So, this virus is very similar to Syncitin, a human protein **essential for reproduction**. This means that if MSRV triggers an immune response, and the immune system creates antibodies against MSRV, then it is likely that those antibodies will destroy Syncitin expression also.

This will have a major effect on reproduction.

Triggers a Potent Immune Response

MSRV is a potent trigger for the immune system. The **MSRV-Env protein** has superantigen-like or pro-inflammatory properties. It can directly interact with receptors such as **TLR4** (Toll-like receptor 4) on immune cells, leading to activation of innate immunity, release of pro-inflammatory cytokines (e.g., TNF- α , IL-6), and promotion of inflammation in the central nervous system.

Antibodies created by the immune system against MSRV, will inevitably target Syncitin – since they have almost exactly the same sequences. If Syncitin is targeted then this would lead to symptoms such as –

- Lower HCG levels
- Infertility
- Spontaneous abortion
- Difficulties in labour

What Triggers Expression of this Virus?

This virus is in everyone's genome already, it is built in to our DNA, and apparently it has been sitting there quietly for millions of years, silent and inactive. If triggered, it would be like an "OFF-switch", with the potential to impact fertility and neurological health.

Conditions that unlock this virus and activate it are **inflammation**, and **Epstein Barr**. These conditions have been found to release and upregulate its expression.

The HPV vaccine is temporally associated with the onset of Epstein Barr, and with symptoms of peripheral neuropathy and infertility. So, a possible sequence would be –

HPV vaccine → Inflammation/Epstein Barr → MSRV → Peripheral Neuropathy / Infertility / Reproductive Disorder.

Demyelination and MSRV

Immune activation by MSRV contributes to the chronic **neuroinflammation** characteristic of MS, damaging myelin, oligodendrocytes, and axons. The mechanism is molecular mimicry, where immune responses to MSRV sequences cross-react with myelin proteins (e.g., MOG), amplifying autoimmunity.

MOG is Myelin Oligodendrocyte Glycoprotein. I obtained the sequence for MOG here - <https://www.ncbi.nlm.nih.gov/protein/CAA52617.1?report=fasta>

>CAA52617.1 myelin oligodendrocyte glycoprotein [Homo sapiens]

MASLSRPSLPSCSCLCSFLLLLLQVSSSYAGQFRVIGPRHPRALVGVDELPCRISPGKNATGMEVGWYR

PPFSRVVHLYRNGKDQDGDQAPEYRGRTELLKDAIGEGKVTLRIRNVRFSDGEGFTCFRDSYQEEAAM

ELKVEDPFYWVSPGVLVLLAVLPVLLLQITVGLVFLCLQYRLRGKLRAEIENLHRTFDPHFLRVPCWKIT

LFVIVPVLGPLVALIICYNWLHRRLAGQFLEELRNPF