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Prevention and Mitigation of Weaponized Viruses Through NutriGenomics: A New Model

Fredric D. Abramson, Ph.D., S.M., Esq.

November 17, 2003

Presented at the 2003 Joint Services Scientific Conference on
Chemical and Biological Defense Research



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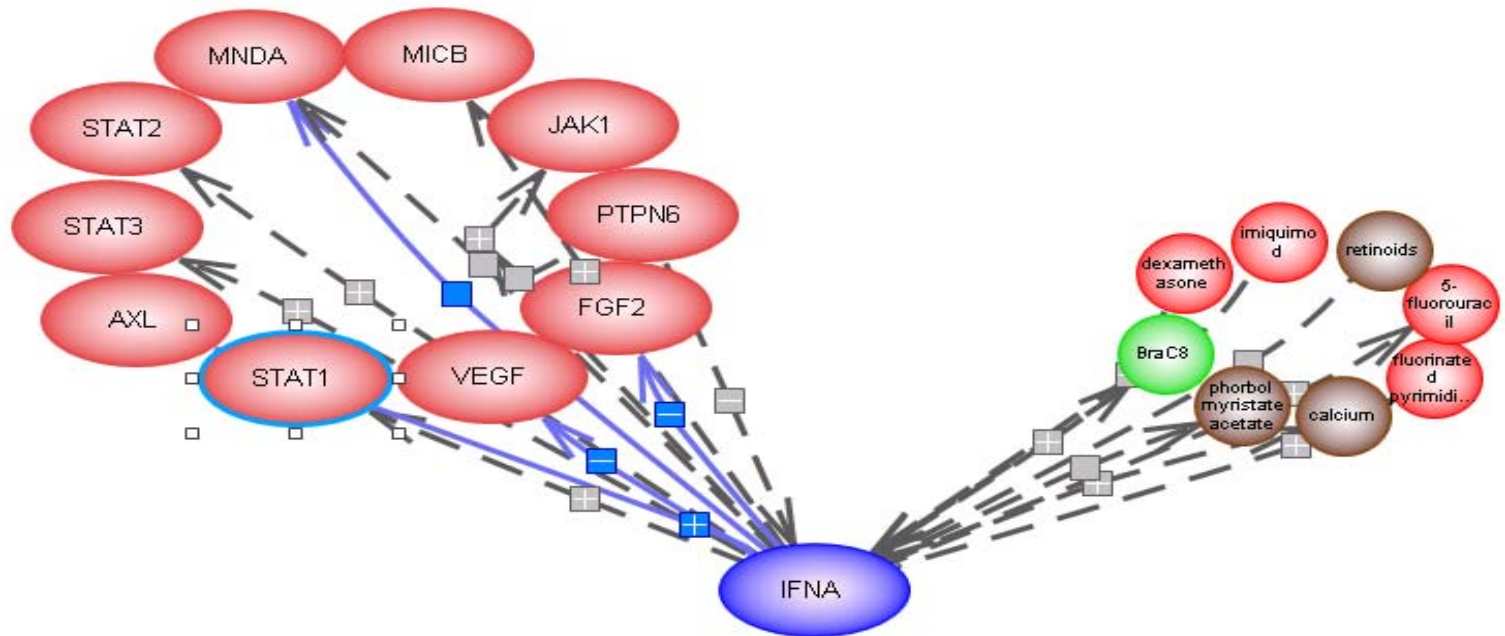
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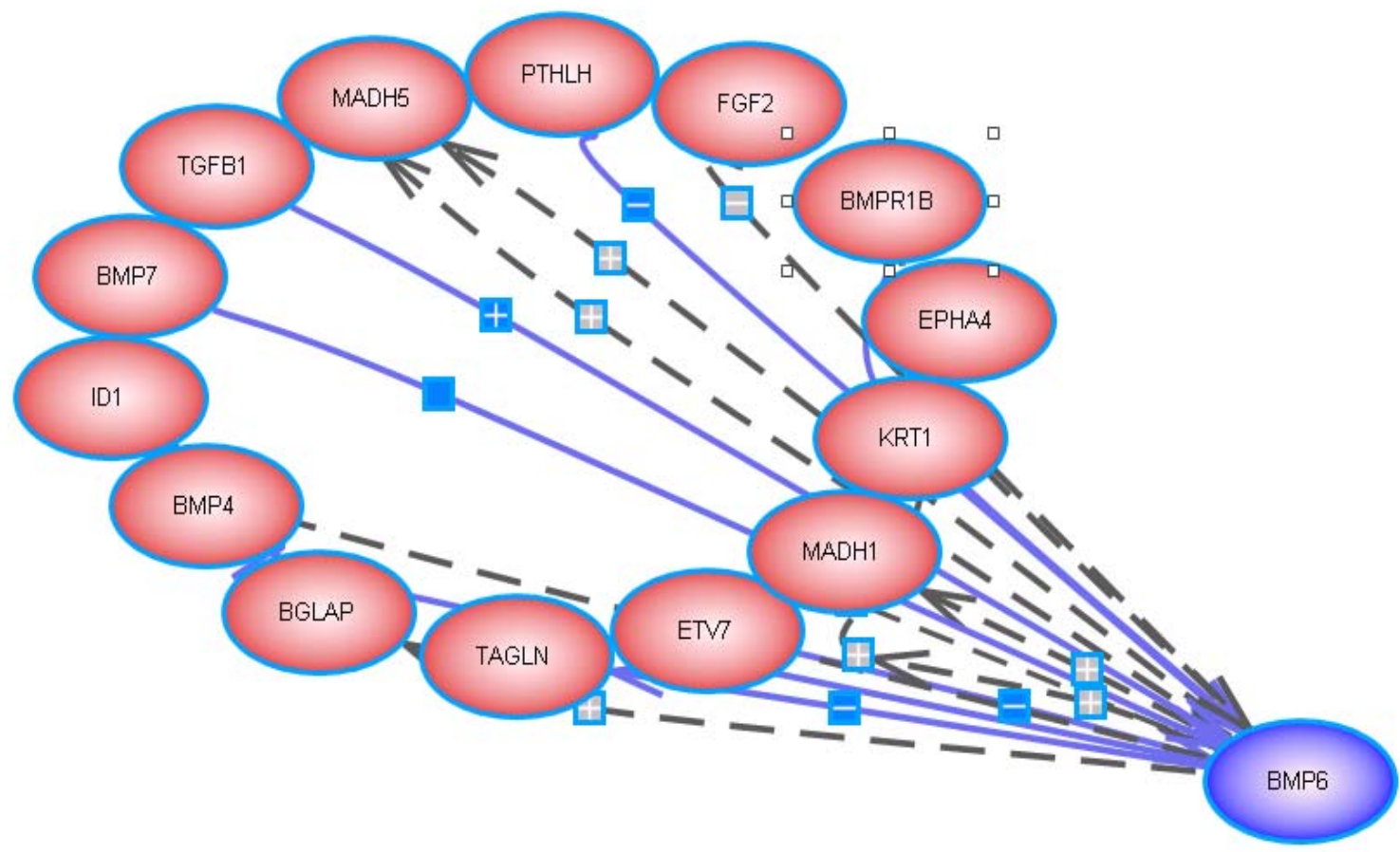
INTERFERON ALPHA
DEFICIENCY



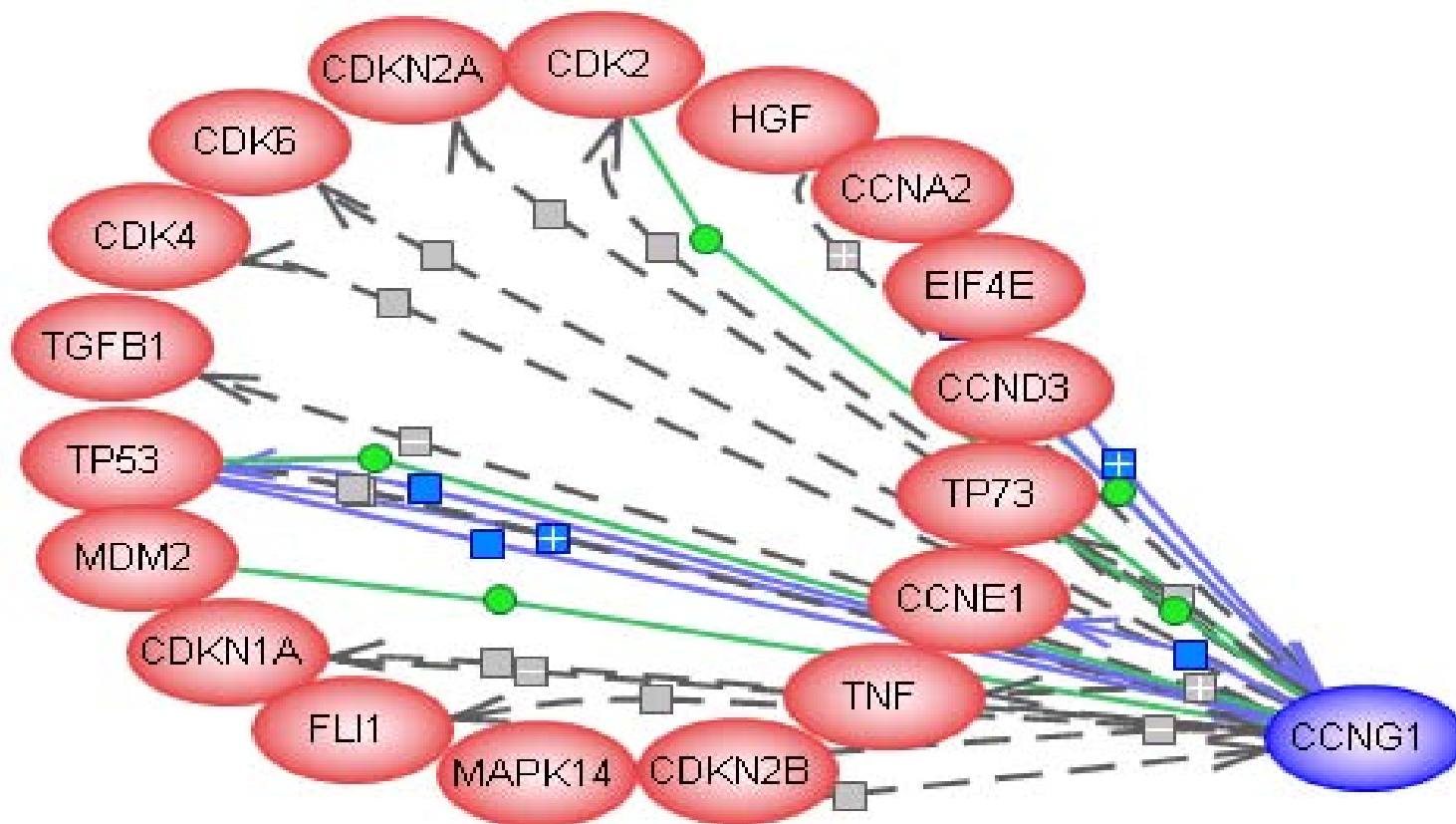
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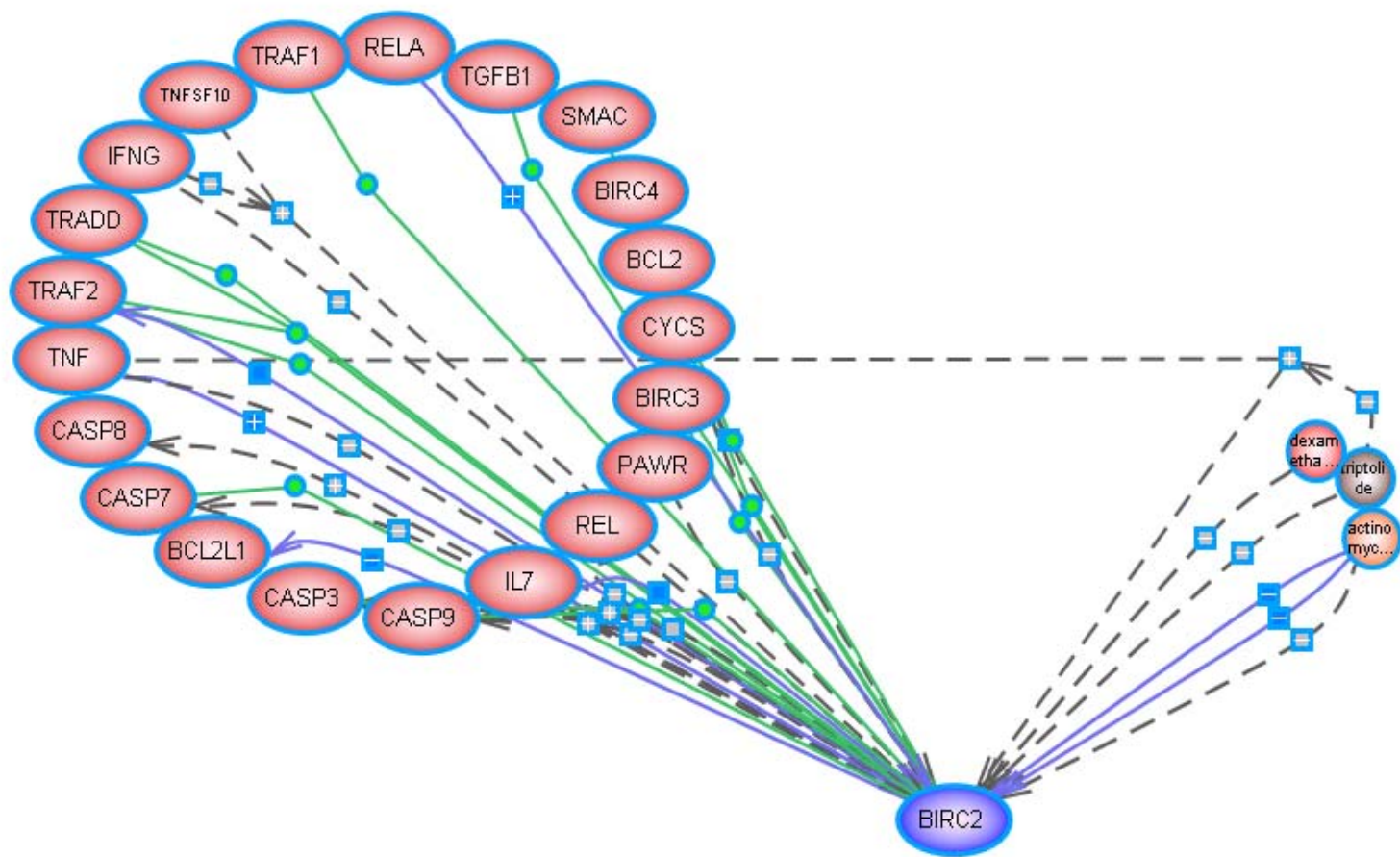
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CCNG1



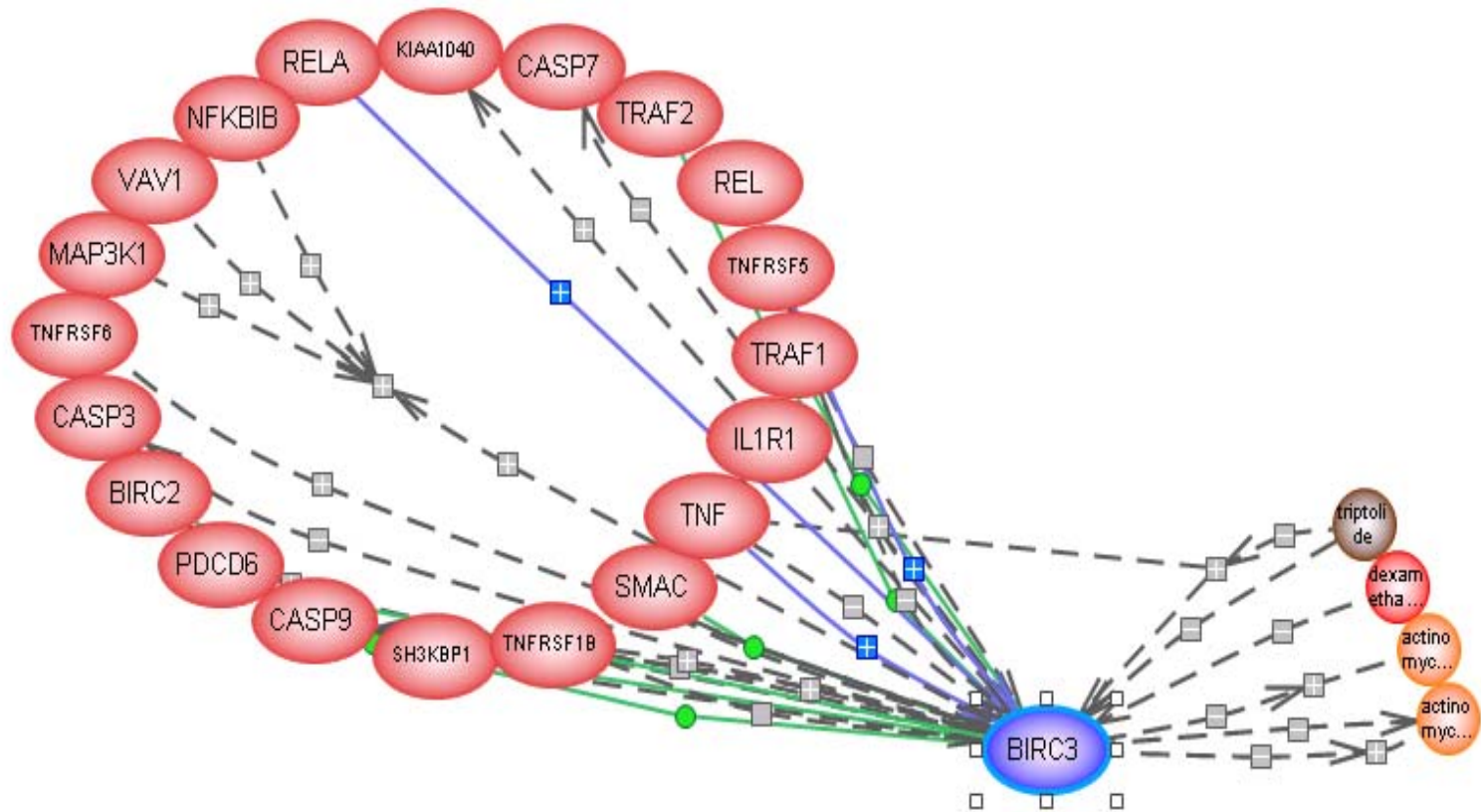
BIRC2



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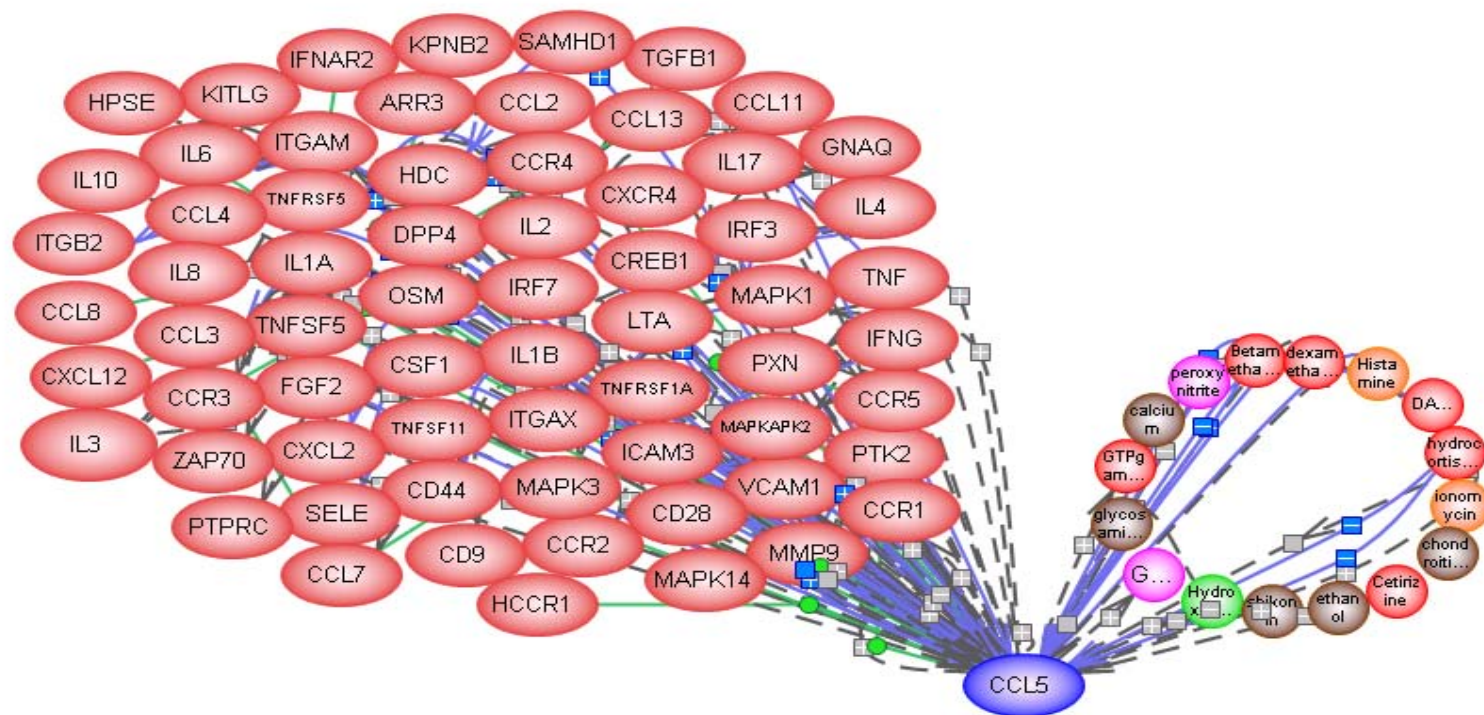
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CCL5



RAPID
PROGRE
SSION...

DELAYED
PROGRE
SSION...



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Some of the 359 Chemical Constituents in the Tomato

From the Handbook of Phytochemical Constituents of GRAS Herbs

- ACETONE FR HUL
- ARGININE 1-3,637 FR HUL USA
- **ARSENIC 0.00354-0-0425 FR USG**
- ASCORBIC-ACID 50-2,952 FR HUL USA
- ASPARAGINE 300 FR HUL
- ASPARTIC-ACID 1,230-20,332 FR USA
- AUROZANTHIN FR NAP
- BARIUM 0-60 FR USG
- CADMIUM 0.005-1.7 AAS USG
- CALCIUM 60-2.400 (-9.200) FR AAS HUL
- BETA-CAROTENE 7-113 FR HUL USA
- CHLORINE 510 FR WOI
- CHROMIUM C-3 FR USG
- COBALT 0-1.4 FR USG
- COPPER 0.4-100 FR HUL USA USG
- CYSTINE 120-1.984 FR USA
- ETHANOL FR HUL
- FORMIC-ACID FR HUL
- FRUCTOSE 11,700 F RHUL
- GLUCOSE 16,300 FR HUL
- GLUTAMIC-ACID 90-54,053 FR HUL
- GLYCERIC-ACID FR HHB
- GLYCOLIC-ACID FR HHB
- HISTIDINE 30-2,149 FR HUL
- IRON 1-800 (3,000) FR HUL
- **LEAD 0,003-60 FR AAS USG**
- LINOLEIC-ACID-830-13,720 FR HUL USA
- LYSINE 2-5,455 FR HUL USA
- MAGNESIUM 70-6,000 FR HUL USA USG

- MANGANESE 0.6-100 FR AAS HUL USG
- **MERCURY 0.00069-0.0017 FR USG**
- METHANOL FR HUL
- MOLYBDENUM 0-6 FR USG
- NIACIN 6-99 FR USA
- NICKEL 0.01-5 FR AAS USG
- OXALIC-ACID 36-263 FR WBB
- PECTIN 100-31,000 FR HUL WOI
- PHENYLALANINE 72-3,801 FR HUL USA
- POTASSIUM 780-58,800 (-102,000) FR AAS
- PROPIONIC-ACID FR HHB
- PYRUVIC-ACID FR HUL
- RIBOFLAVIN 1-8 FR USA
- SELENIUM 0.00069-0.034 FR USG
- SILVER 0-1.4 FR USG
- SODIUM 10-6.600 FR HUL
- STRONTIUM 0-140 FR USG
- SUCCINIC-ACID FR HHB
- SUCROSE FR HUL
- SULFUR 107-2,330 FR AAS HHB USG
- TITANIUM 0-140 FR USG
- ALPHA-TOCOPHEROL 7-143 FR TOT
- TYROSINE 38-2,479 FR HUL USA
- UBIQUINONE-10 60 TC NAP
- VALINE 1-3.801 FR HUL USA
- VANADIUM 0-6 FR USA
- ZINC 1-120 FR HUL USA USG



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Network Evaluation II - Ingenuity

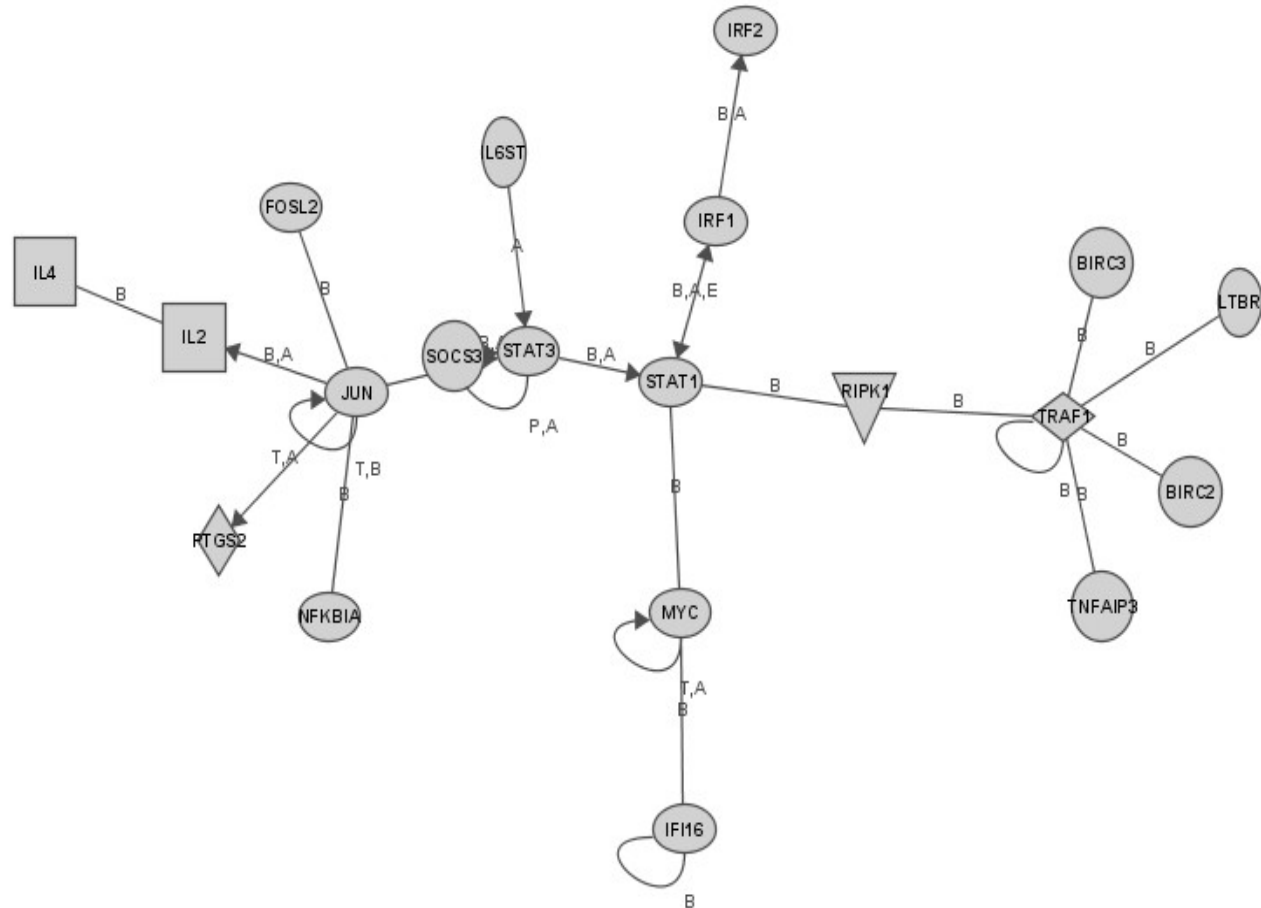
- 120 Mapped Genes in Literature
- 82 Ingenuity system
- 189 Total Networked Genes
 - 107 new connections
- 24 Networks

8 of 24 Networks

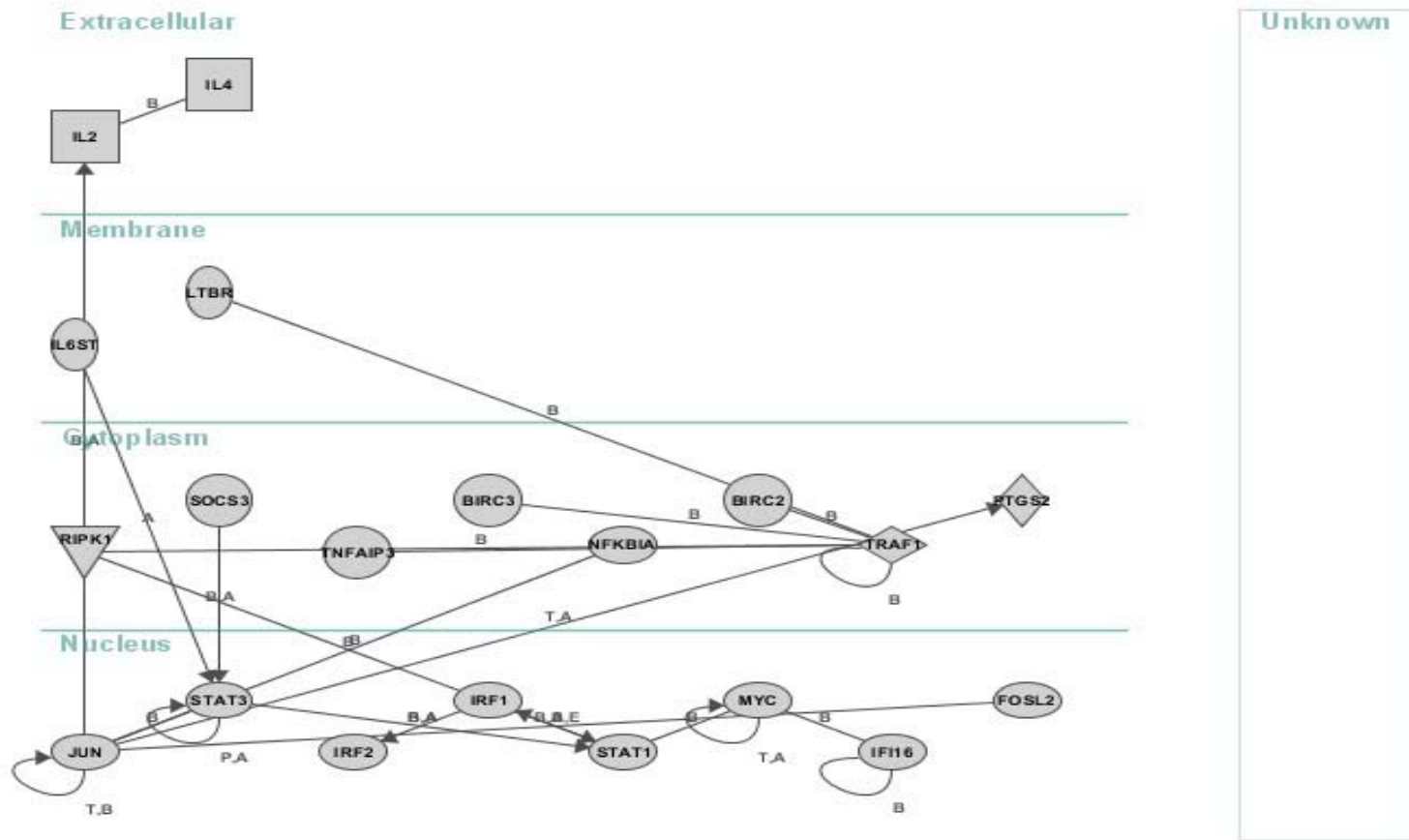
1	BIRC2, BIRC3, FOSL2, IFI16, IL2, IL4, IL6ST, IRF1, IRF2, JUN, LTBR, MYC, NFKBIA, PTGS2, RIPK1, SOCS3, STAT1, STAT3, TNFAIP3, TRAF1	20
2	CCBP2, CCL3, CCL4, CCL5 , CCR4, CREBBP, CTSD, EEF1G, EEF2 , HMGA1, IFNA1, IFNA4, IFNB1, IRF3, IRF7 , KLF13, MYCN, NCL, NOS2A, RPS6	10
3	ATF2, BTRC, C-REL, EP300, FOS, GATA3, HNRPU, IL10, IL13 , IL1RL1, IL8, MAPK12 , NFKB1, NMI , RELA, RPS18, SOD2 , TBP, UBE1 , UTF1	9
4	CDK4, CDKN1A, CEBPB, CUGBP1 , CYFIP1, CYFIP2, FMR1, FXR1, FXR2 , GANKYRIN, IL6, MAPK6, PRKCG, PSMA3 , PSMB1, PSMB7, PSMB8, PSMB9, PSME1, PSME2	7
5	CCNB1-RS1, CCNG1, CDK6 , CDKN2D, DDB2, E2F1, ESR1, ISGF3G , NDN, PIASX, POLA, POLA2, PRIM2A, PRKR , RAD54L, RANGAP1 , RRM2, TFAP2C , TP53, UBE2I	6
6	CXCL12, DCN, DPP4, FN1, HOXD3, IGF2R, IL1A, IL1B , IL1R1, IL1R2, MMP12, MMP16, MMP2, PLG, SPARC, TAC1, TGM2, TNF, TNFRSF6 , UMOD	6
7	BARD1, BRCA1, CSTF1, CSTF2, CSTF3, CUL2, IFI27, IFNG , IGF1R, INSR, JAK1, JAK2, NFATC2, PRLR, RBX1, SOCS1, SOCS2, TAP1 , TCEB1, TCEB2	6
24	BUB1B, BUB3, CDC20, CDC27, CSF2RB, E2F4, INSR, KIF1B, MAD1L1, MAD2L1, MAD2L2, UBD	1



Network 1 – 20 genes

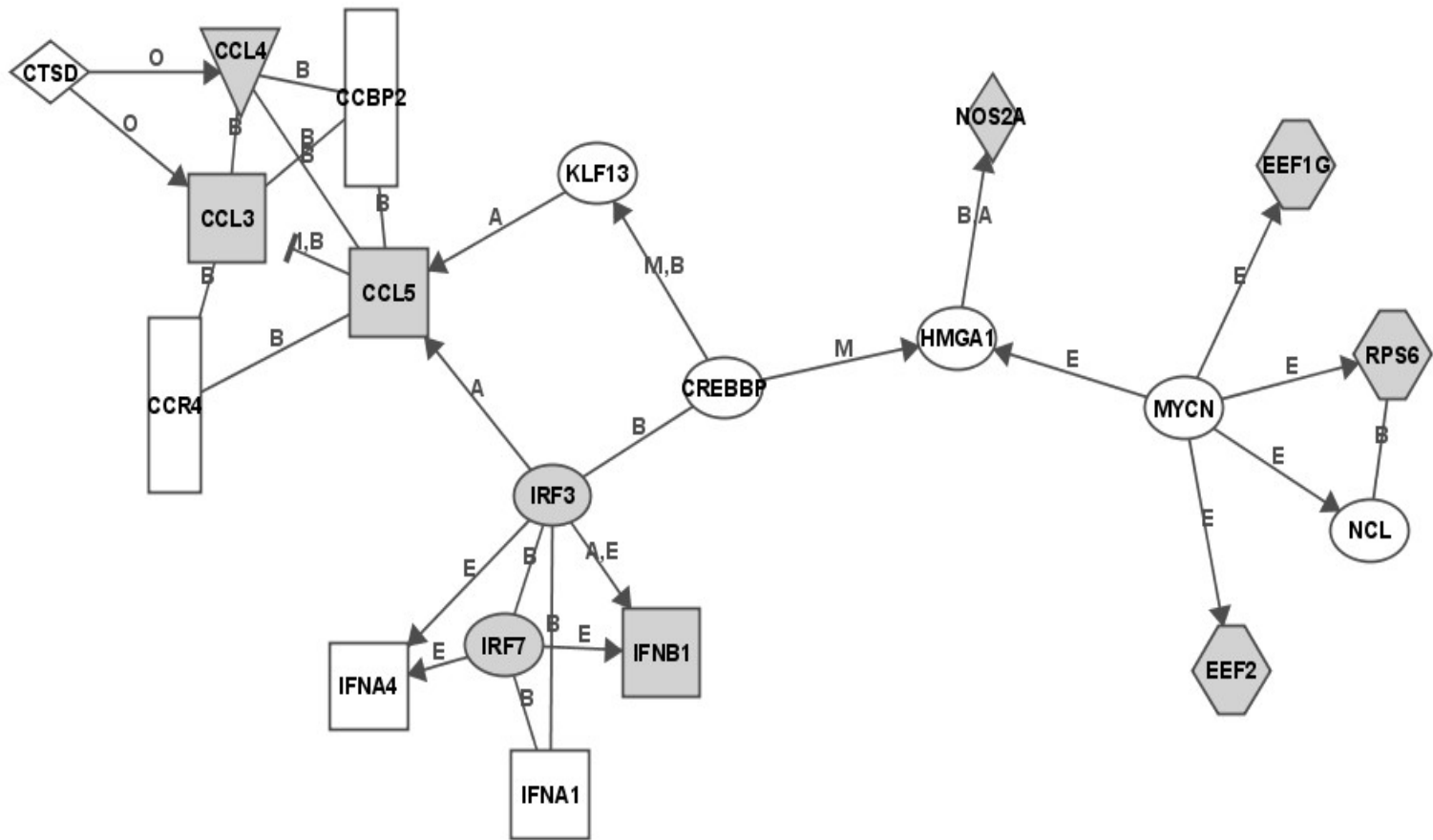


Network 1 – Cellular Layout

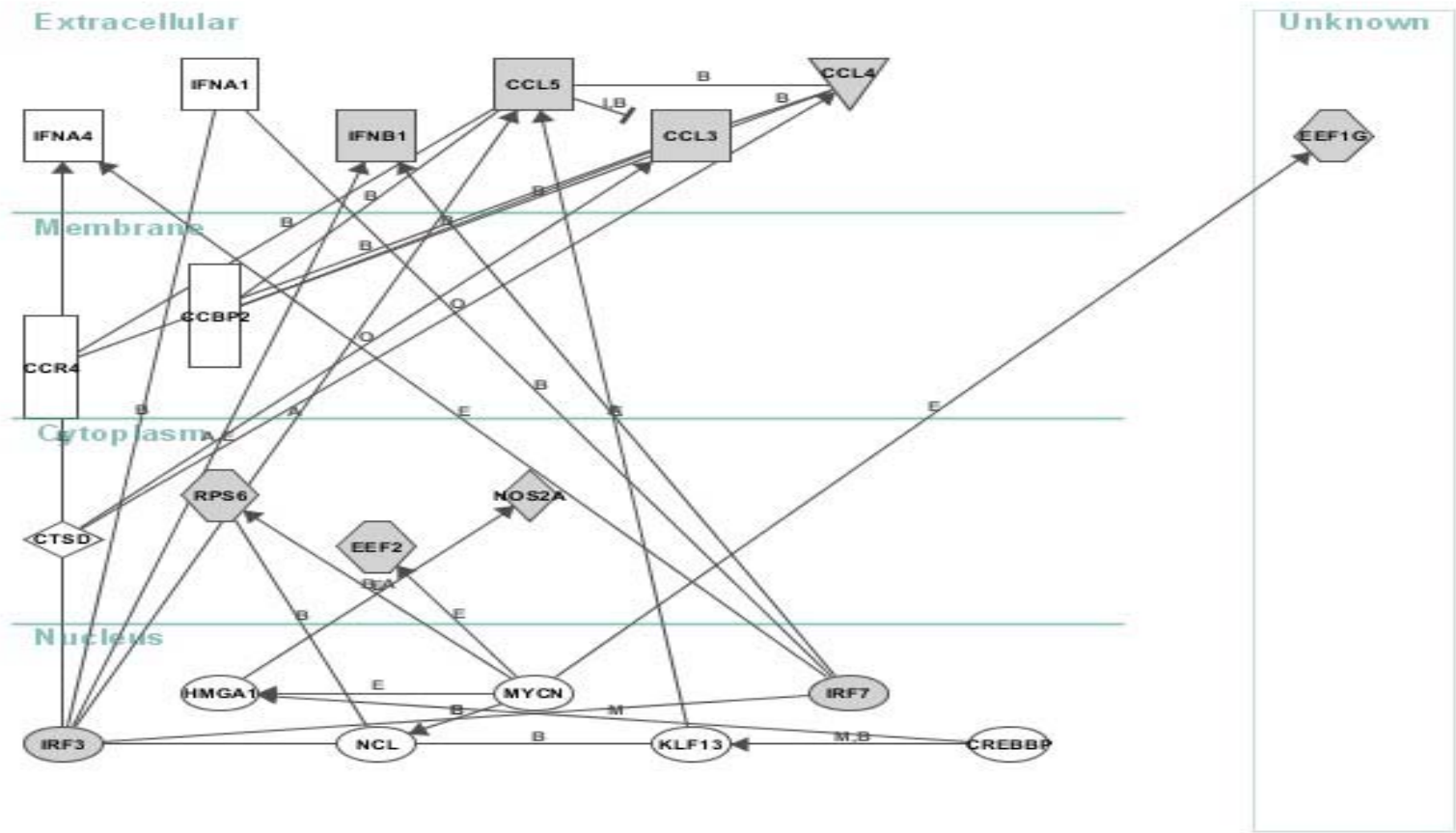


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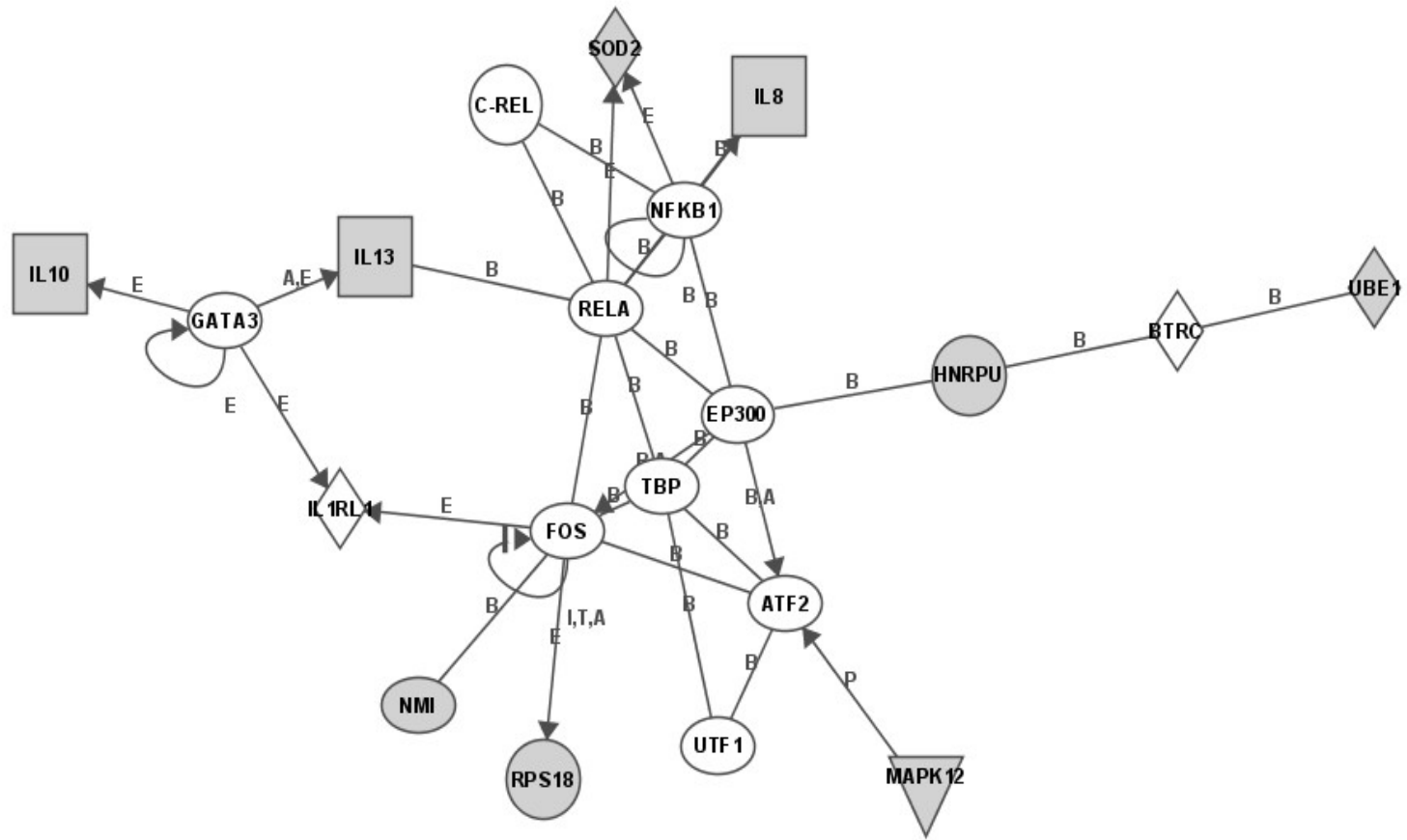
Network 2 – 20 genes



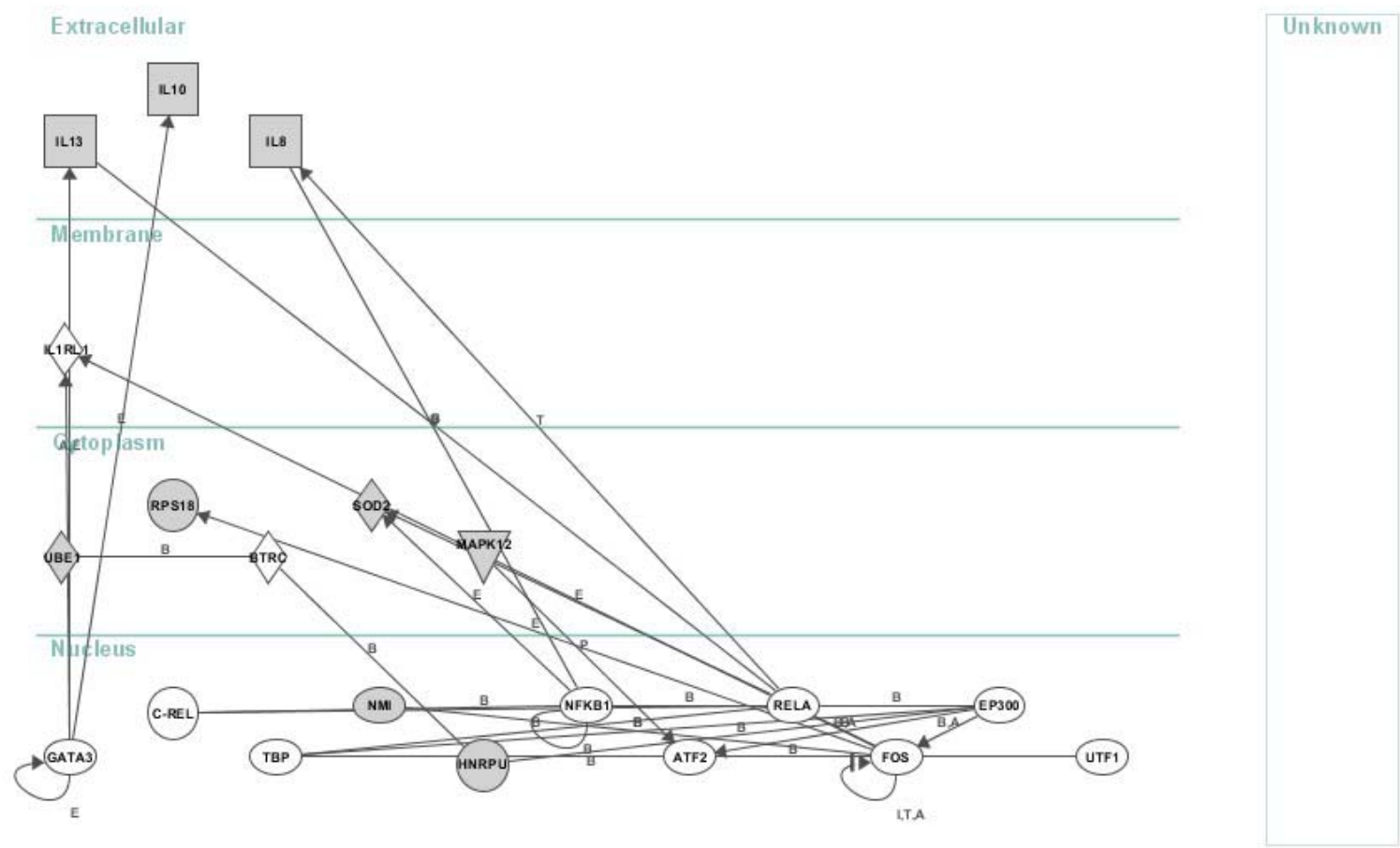
Network 2 – Cellular Layout



Network 3 – 20 genes

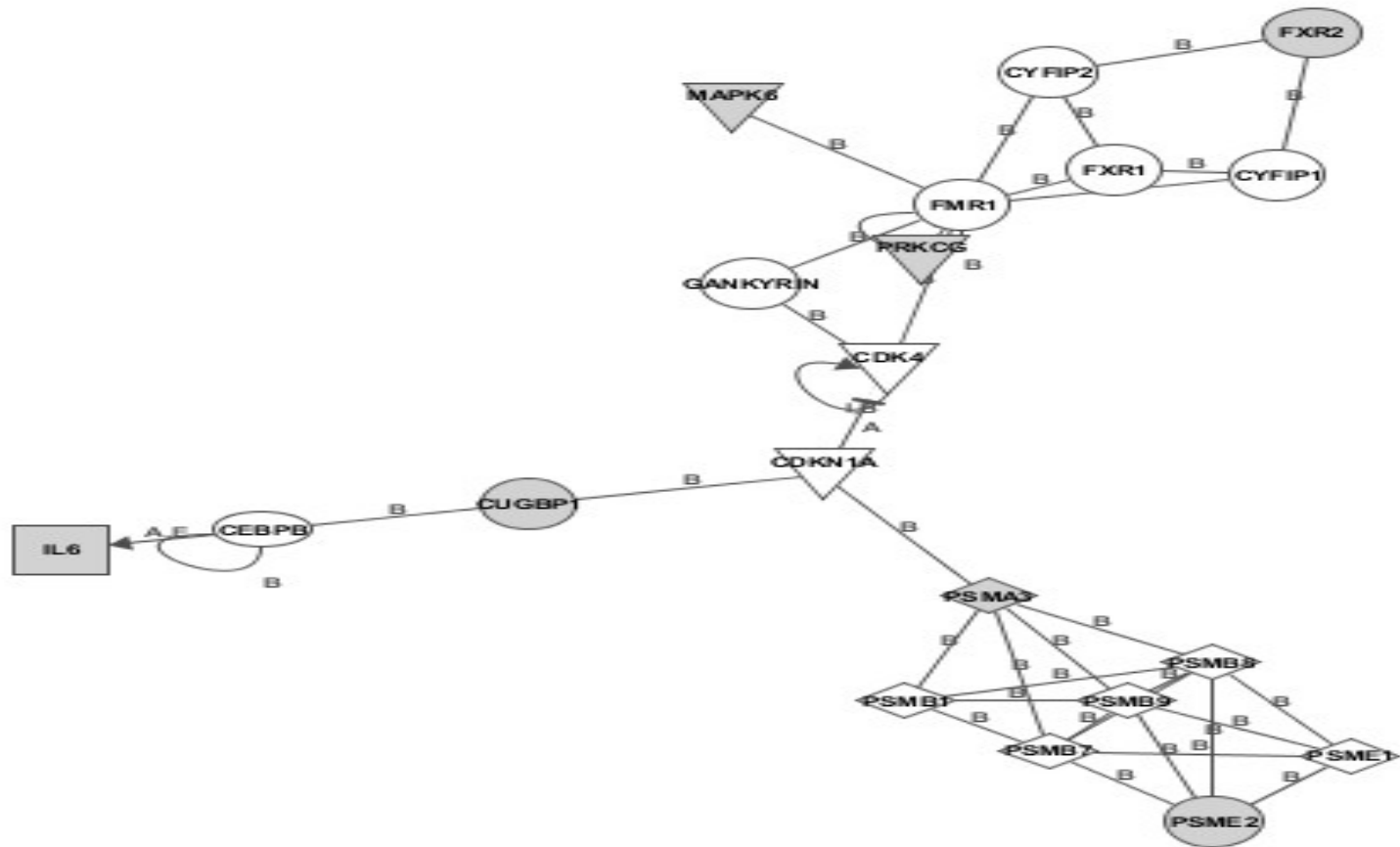


Network 3 – Cellular Layout

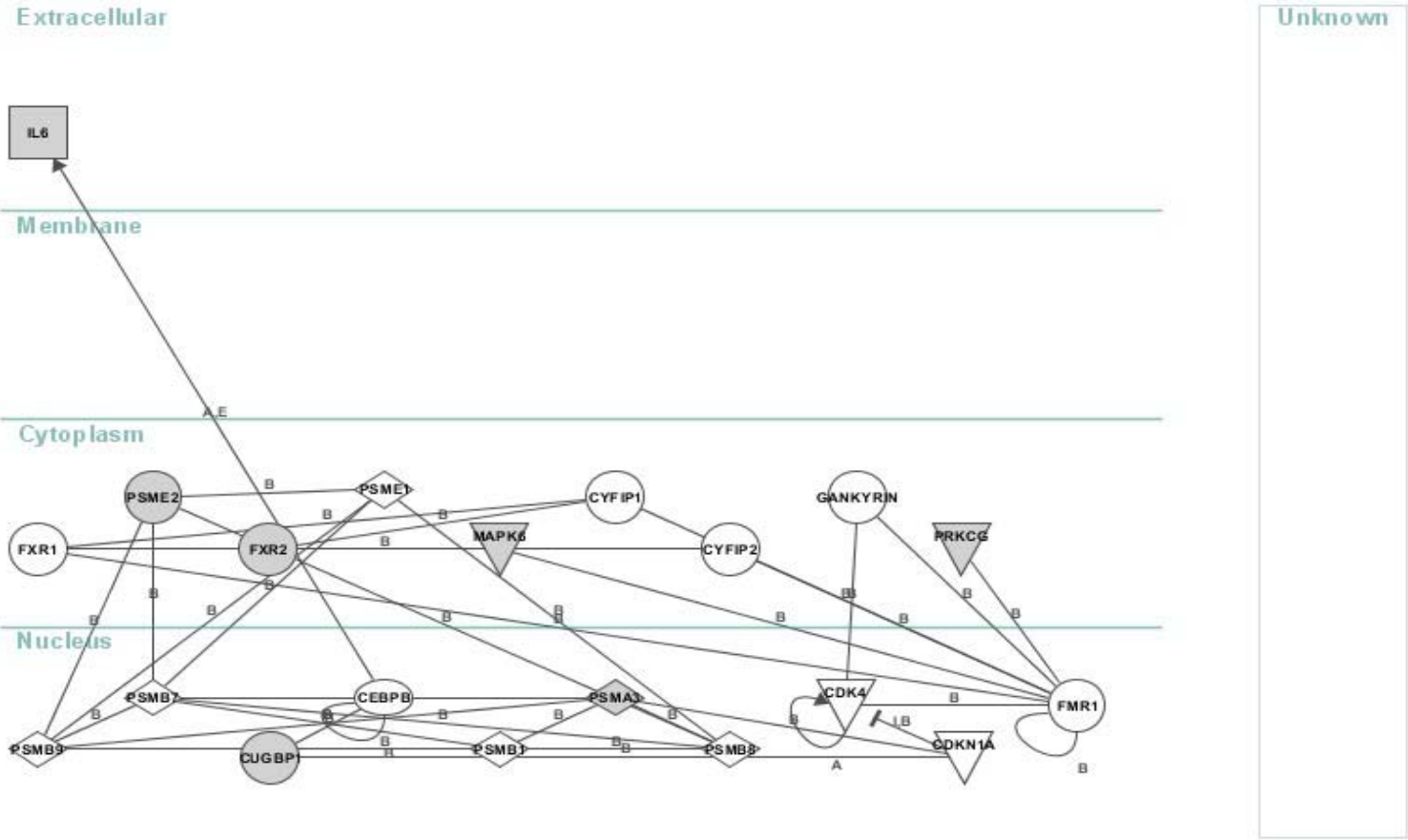


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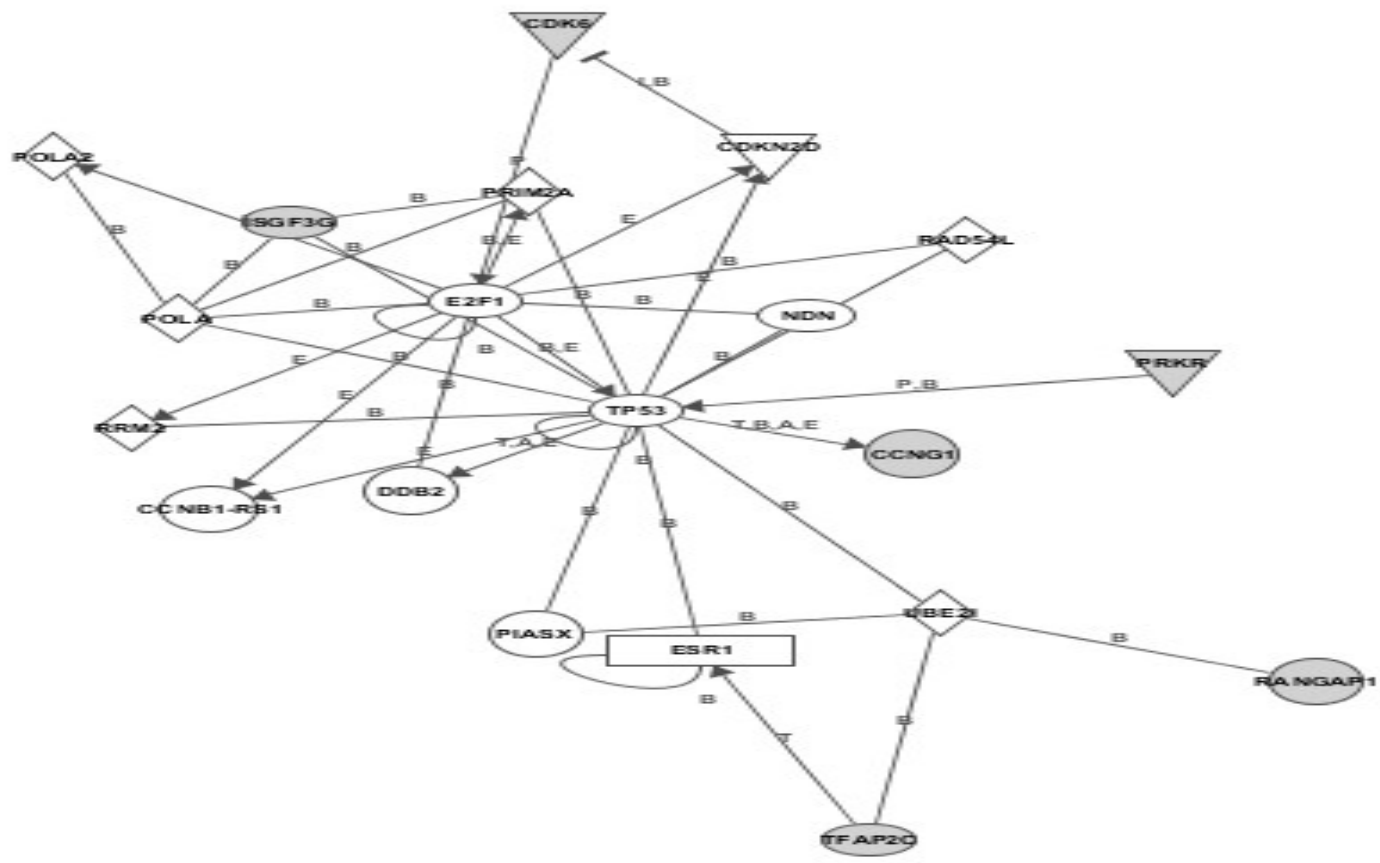
Network 4 – 20 genes



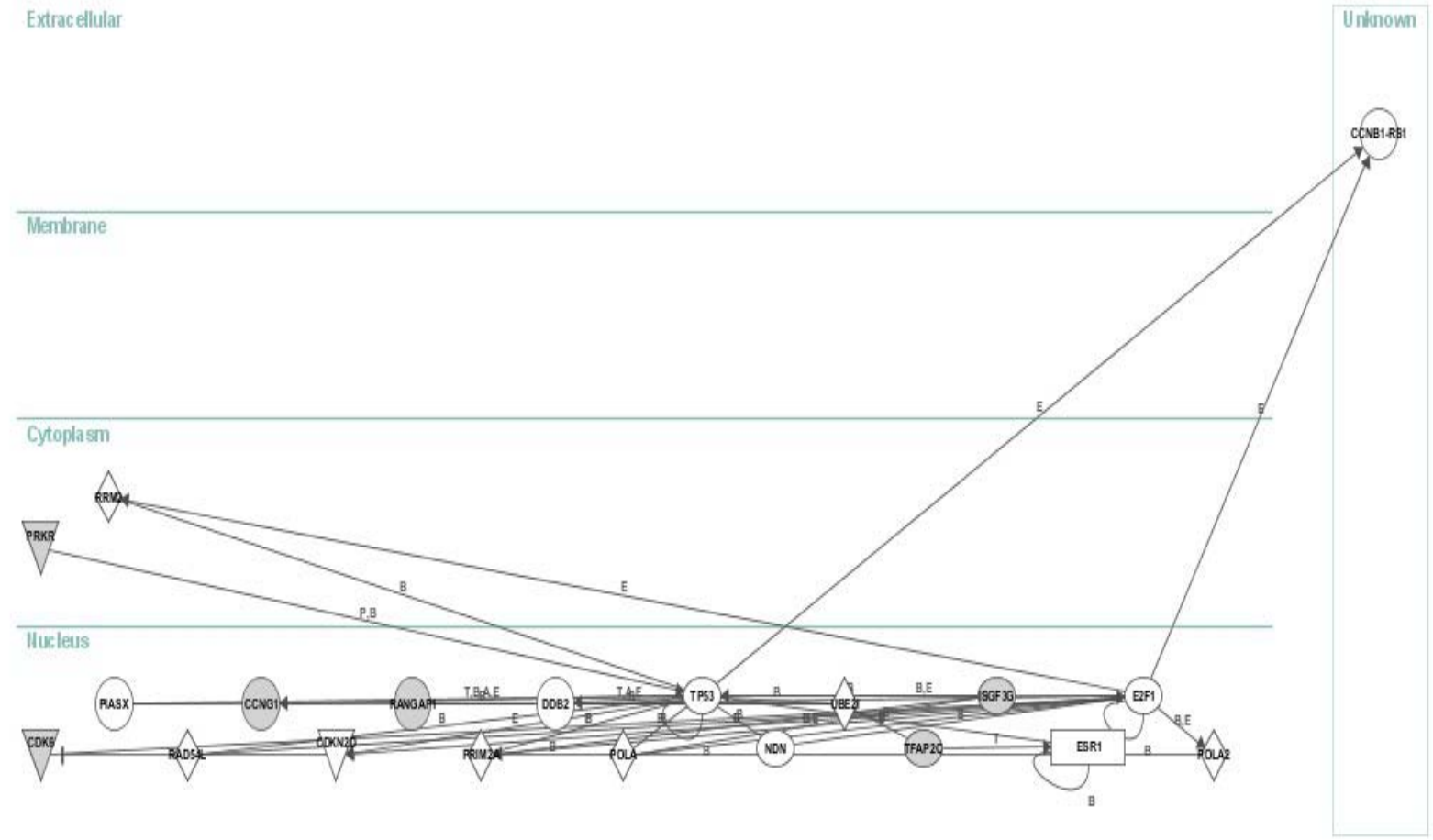
Network 4 – Cellular Layout



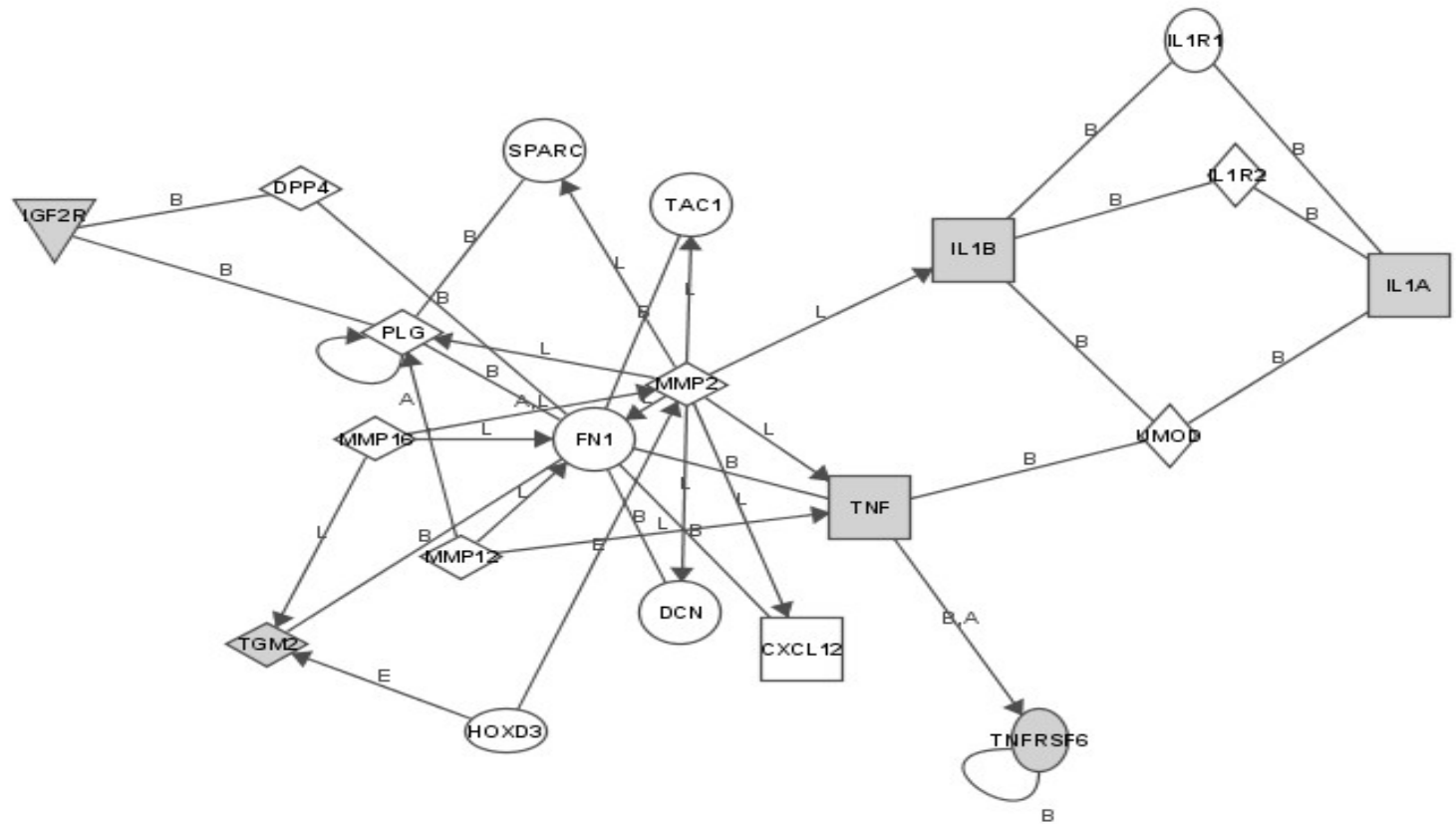
Network 5 – 20 genes



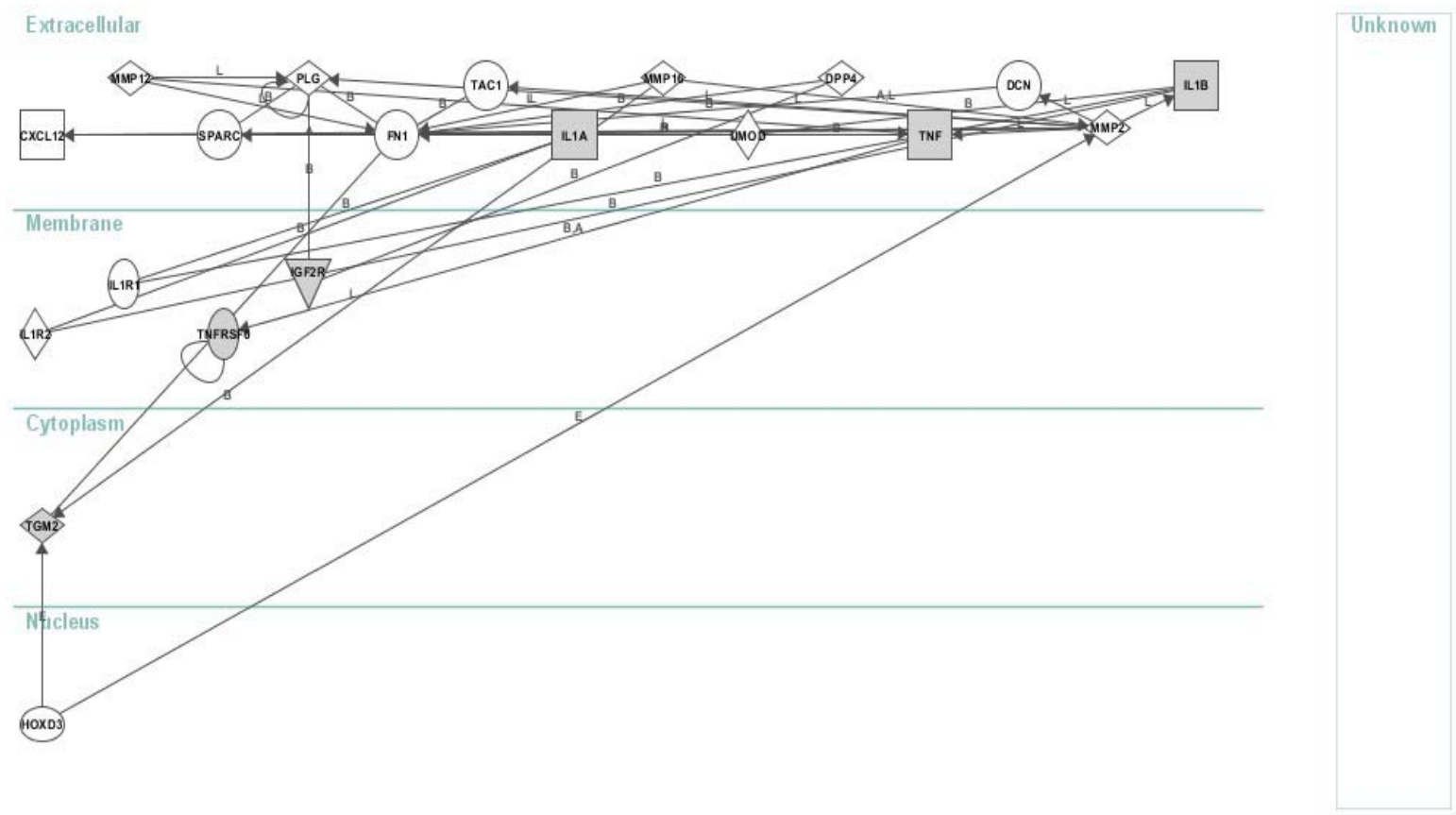
Network 5 – Cellular Layout



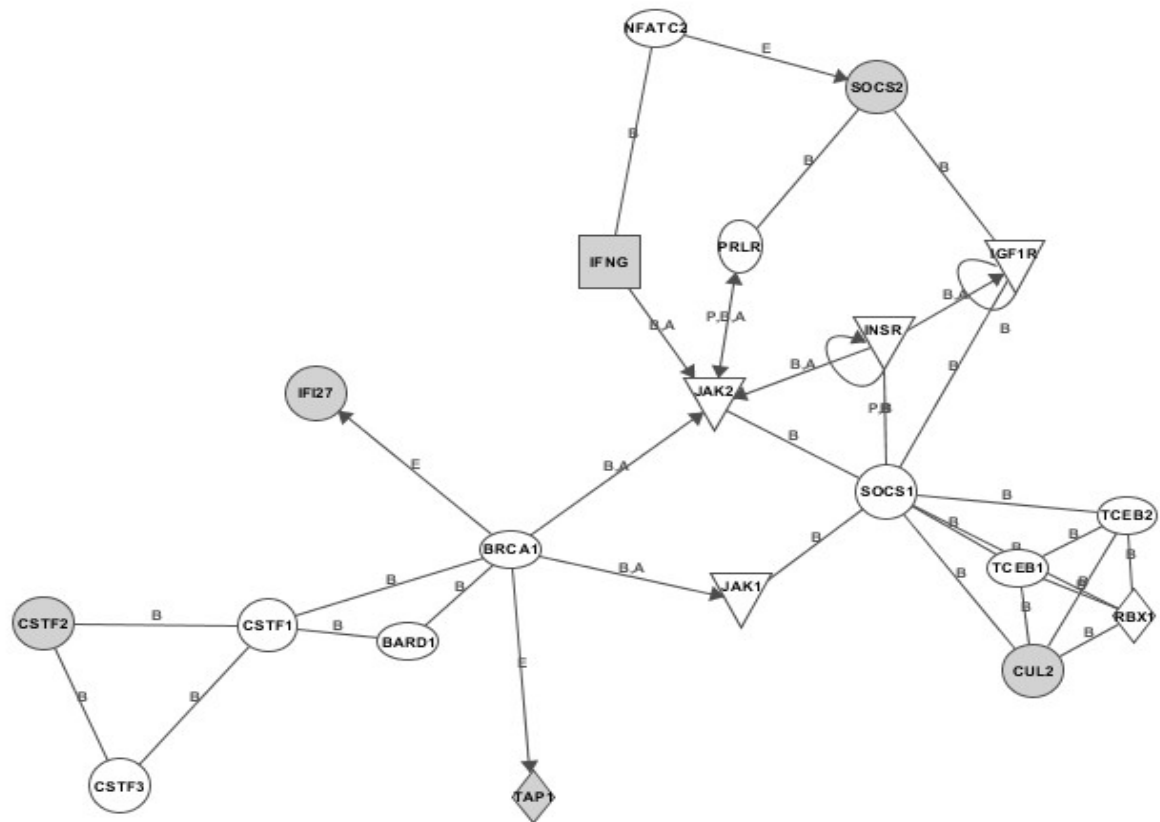
Network 6 – 20 genes



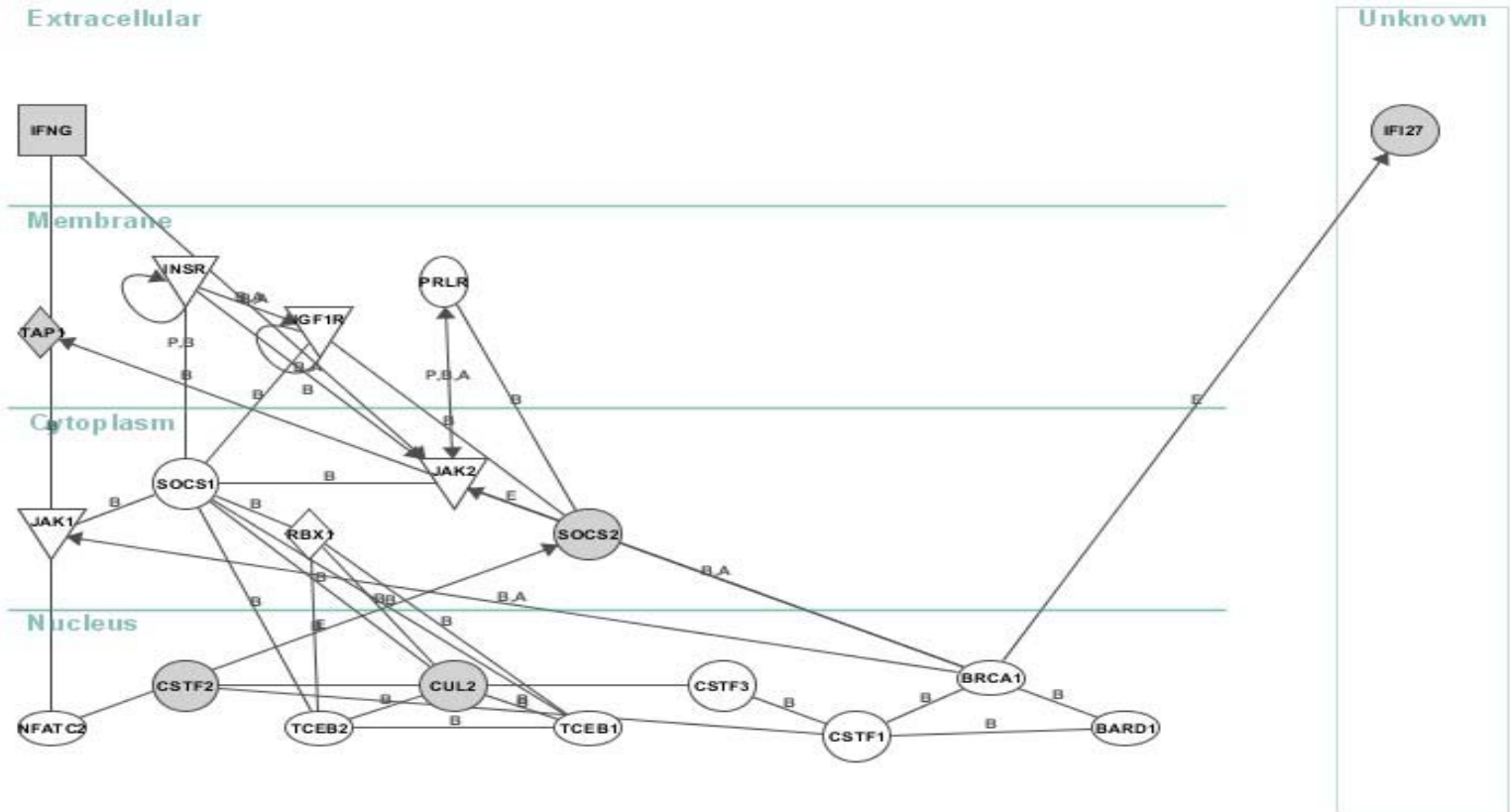
Network 6 – Cellular Layout



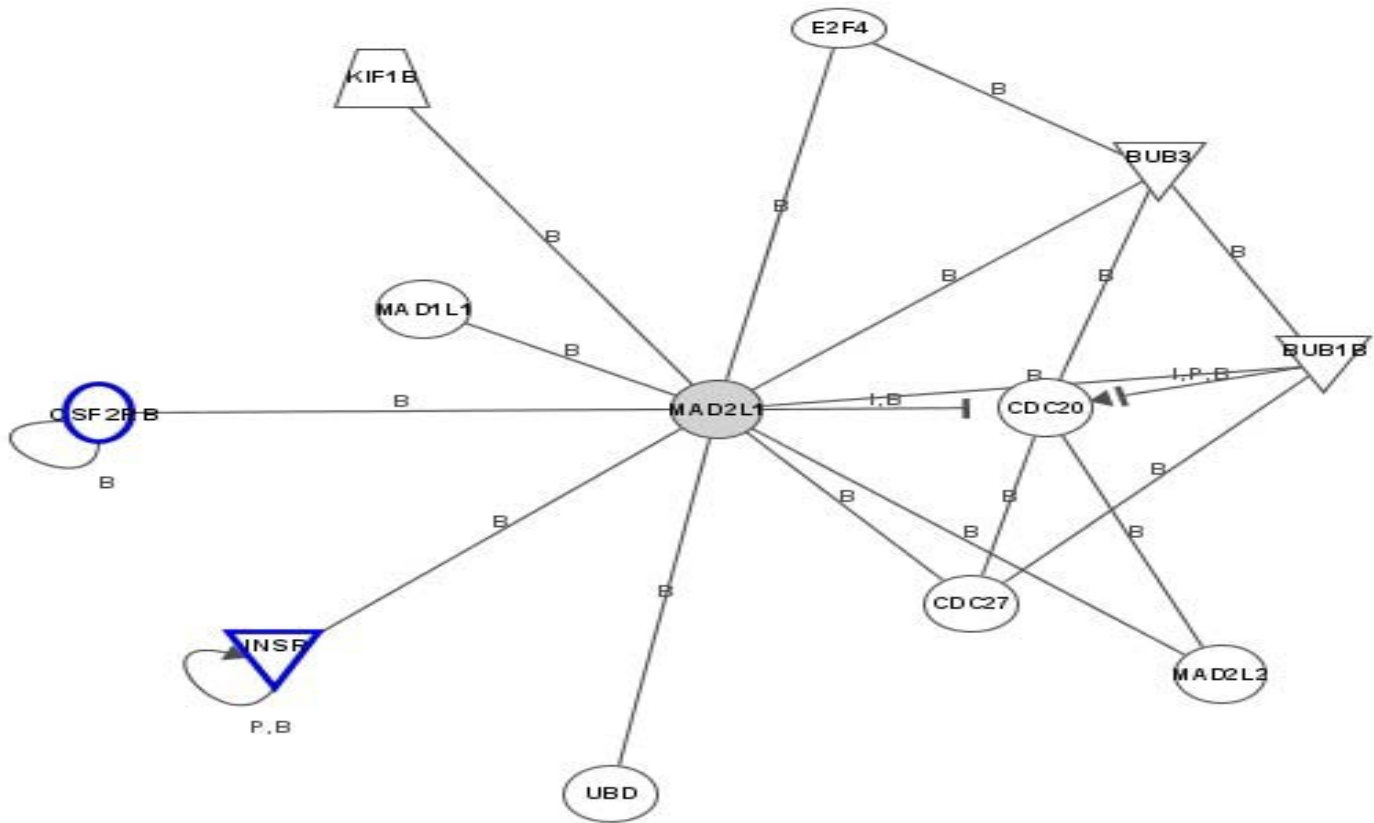
Network 7 – 20 genes



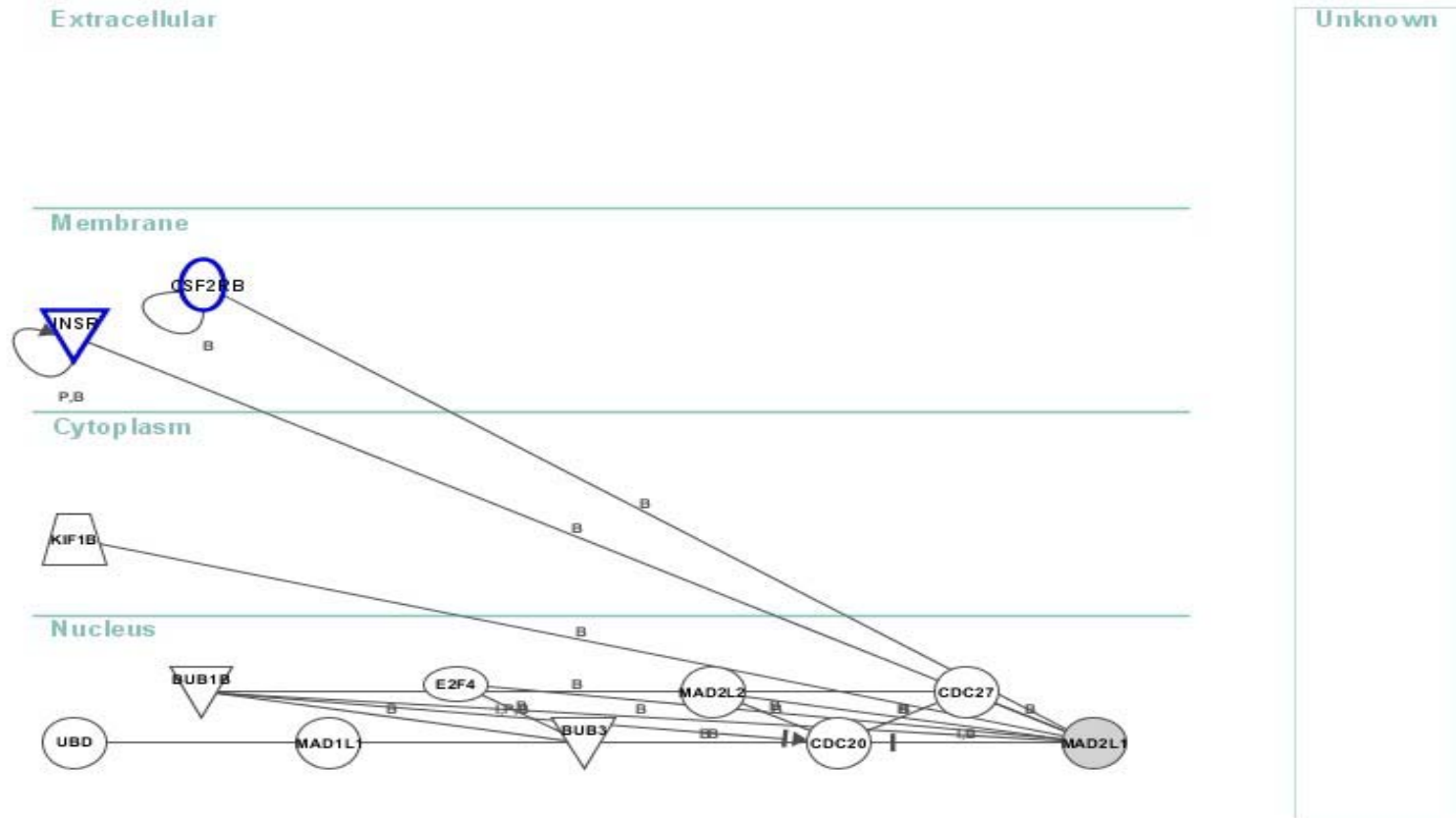
Network 7 – Cellular Layout

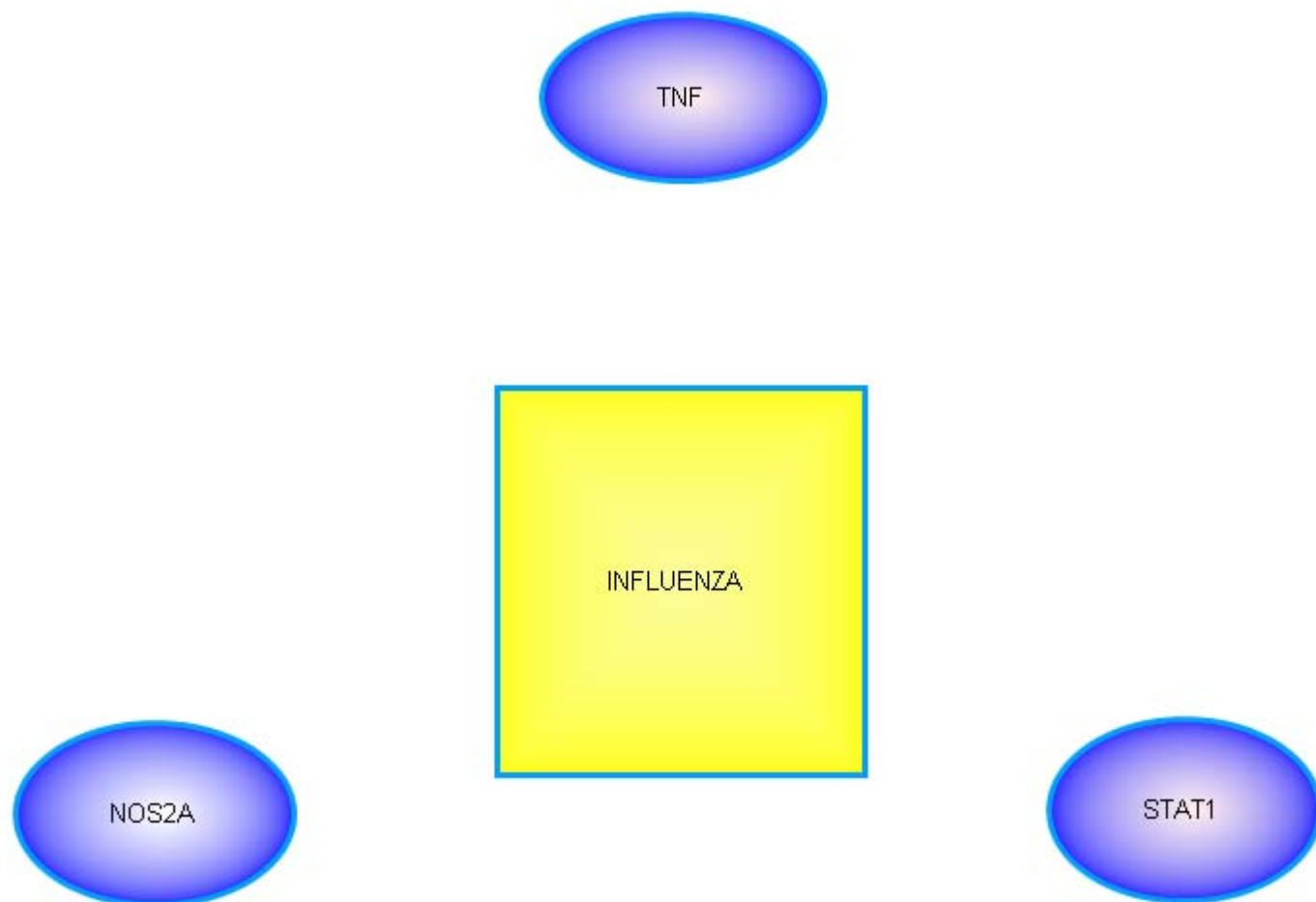


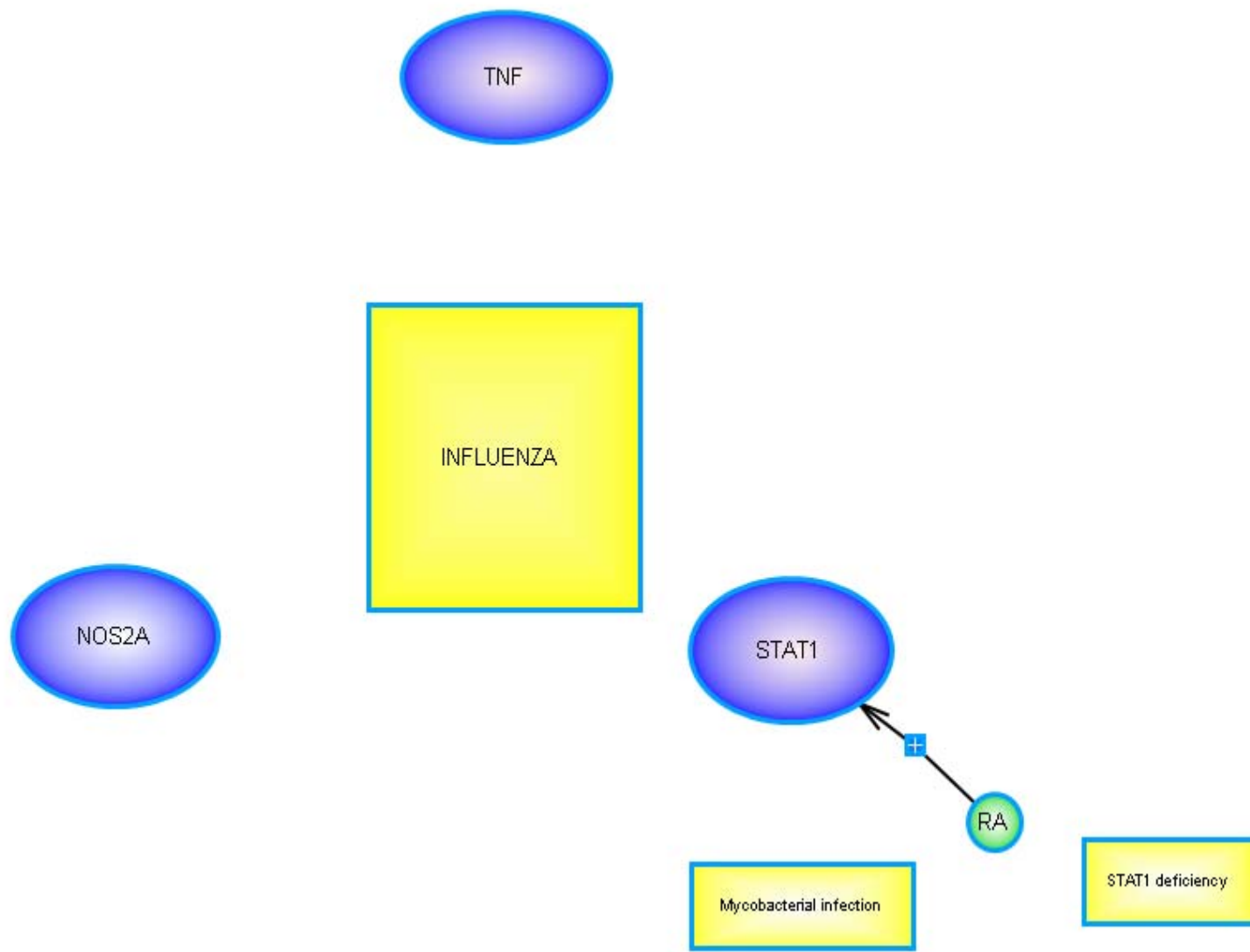
Network 24 – 20 genes

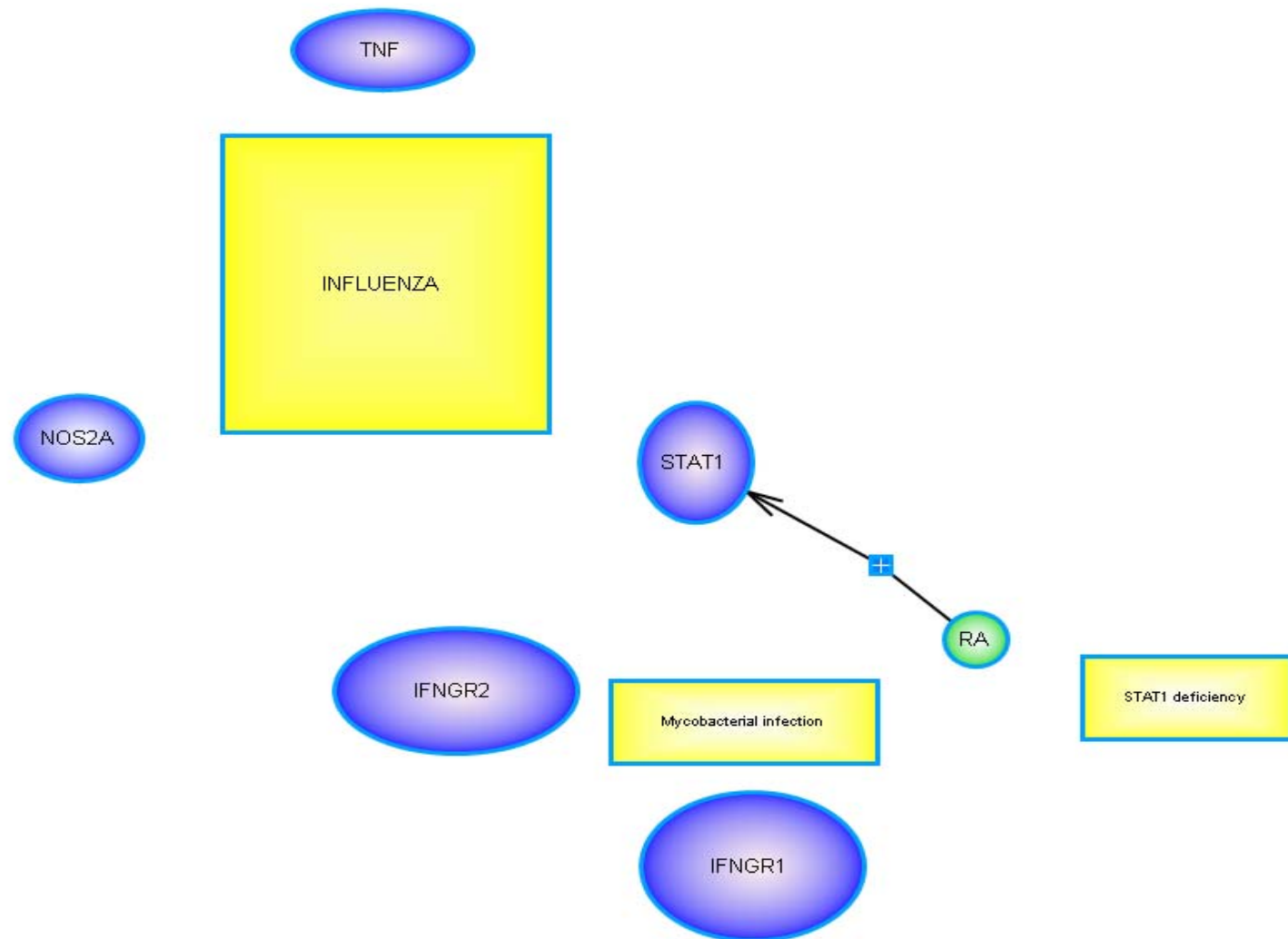


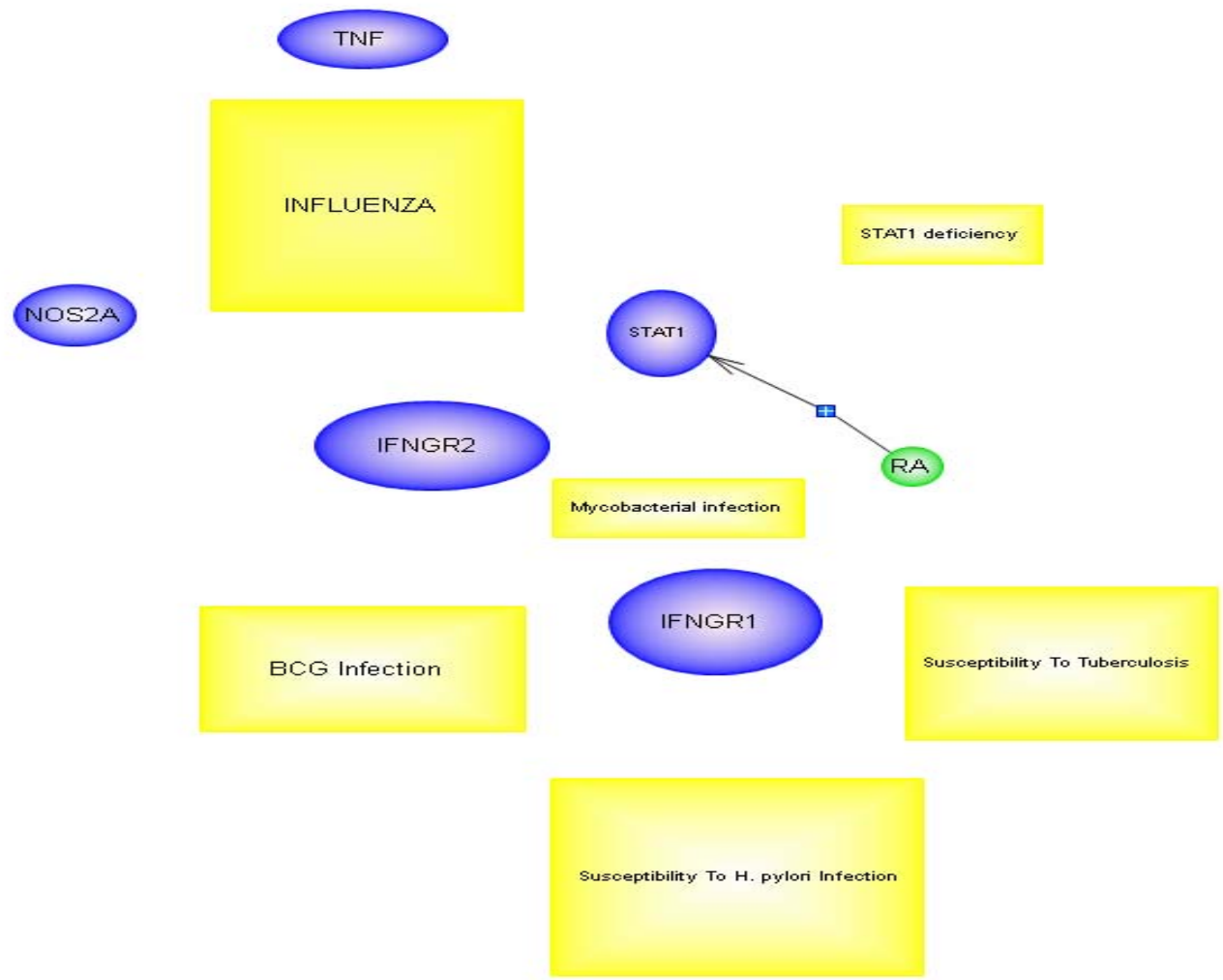
Network 24 – Cellular Layout

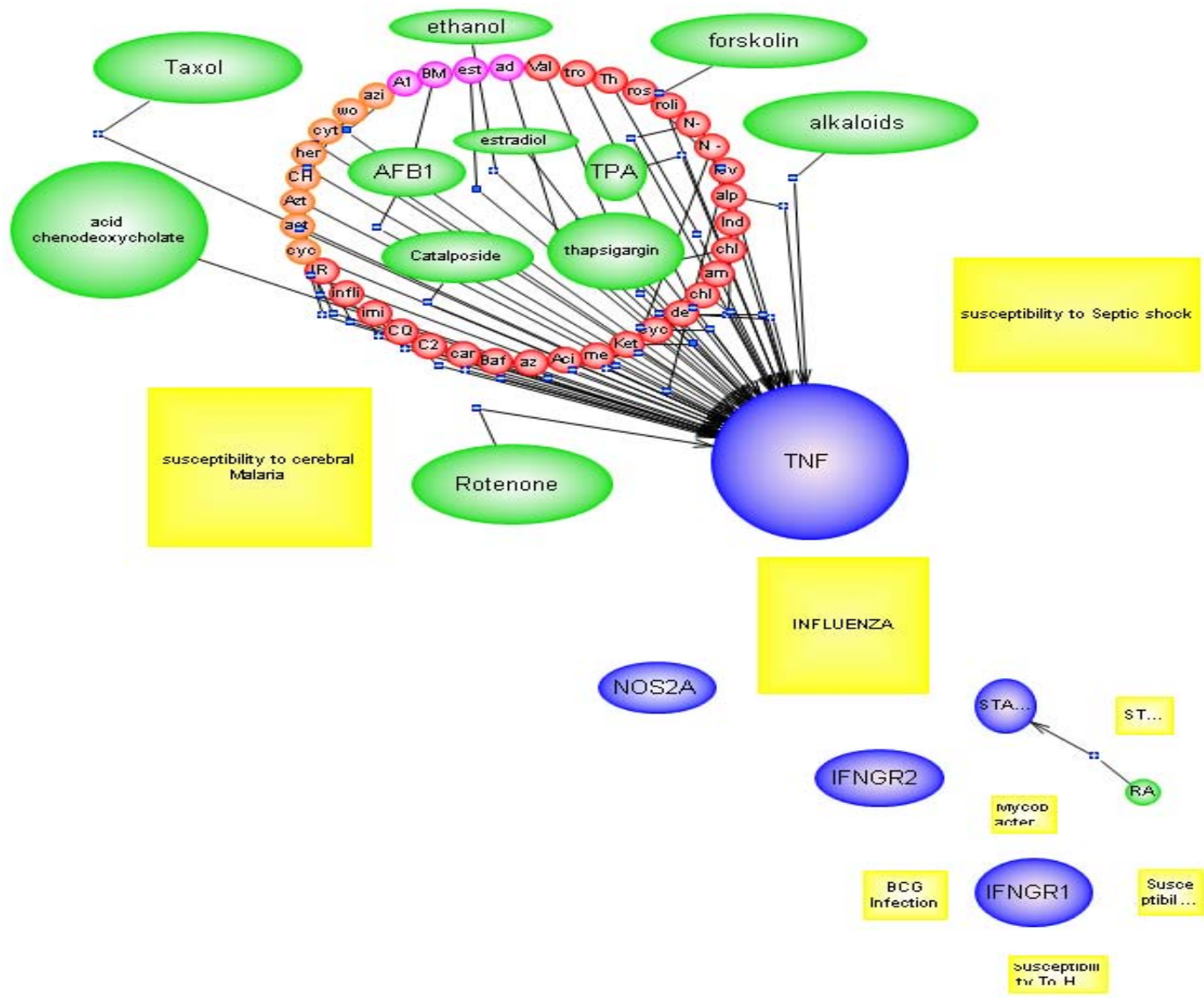


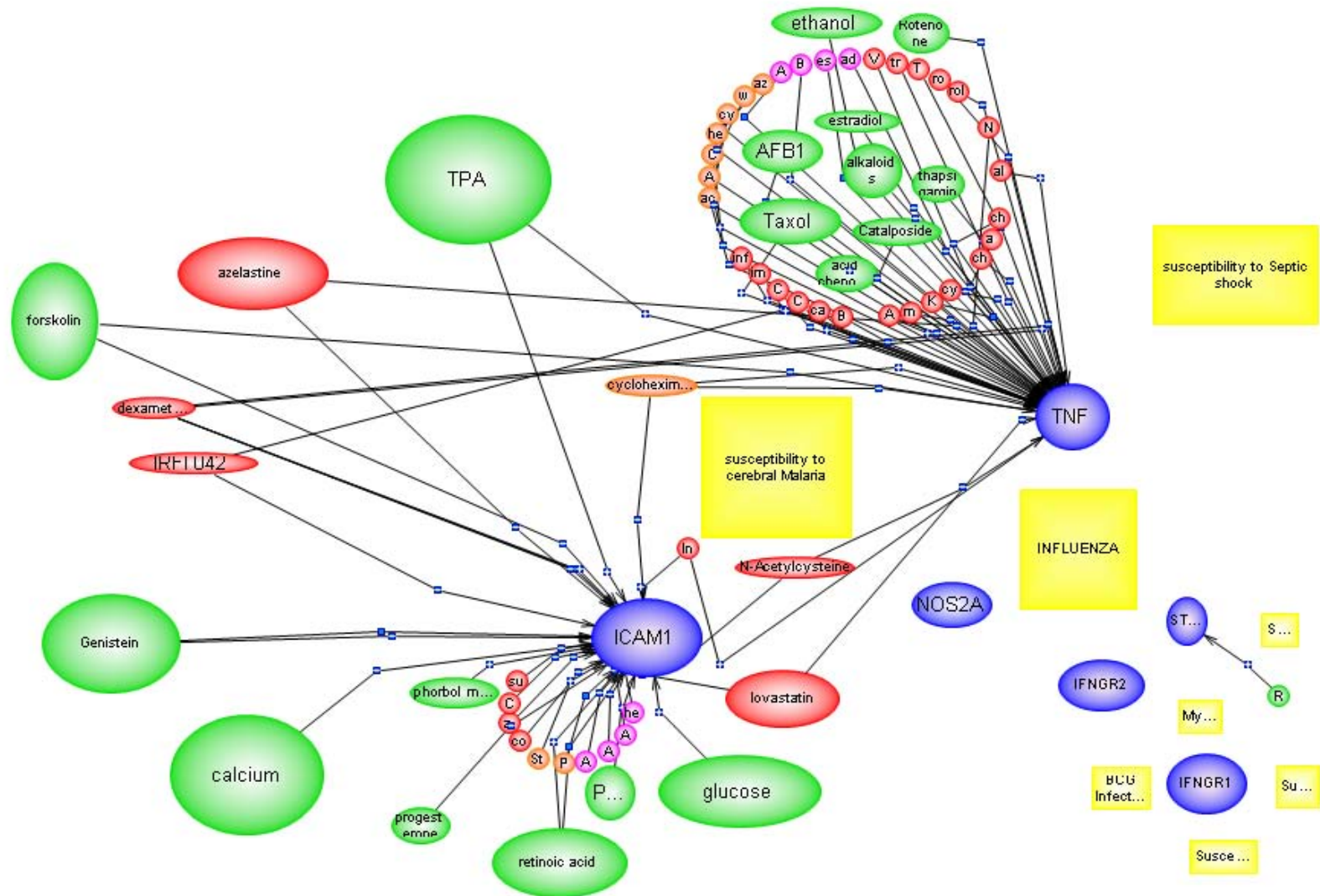


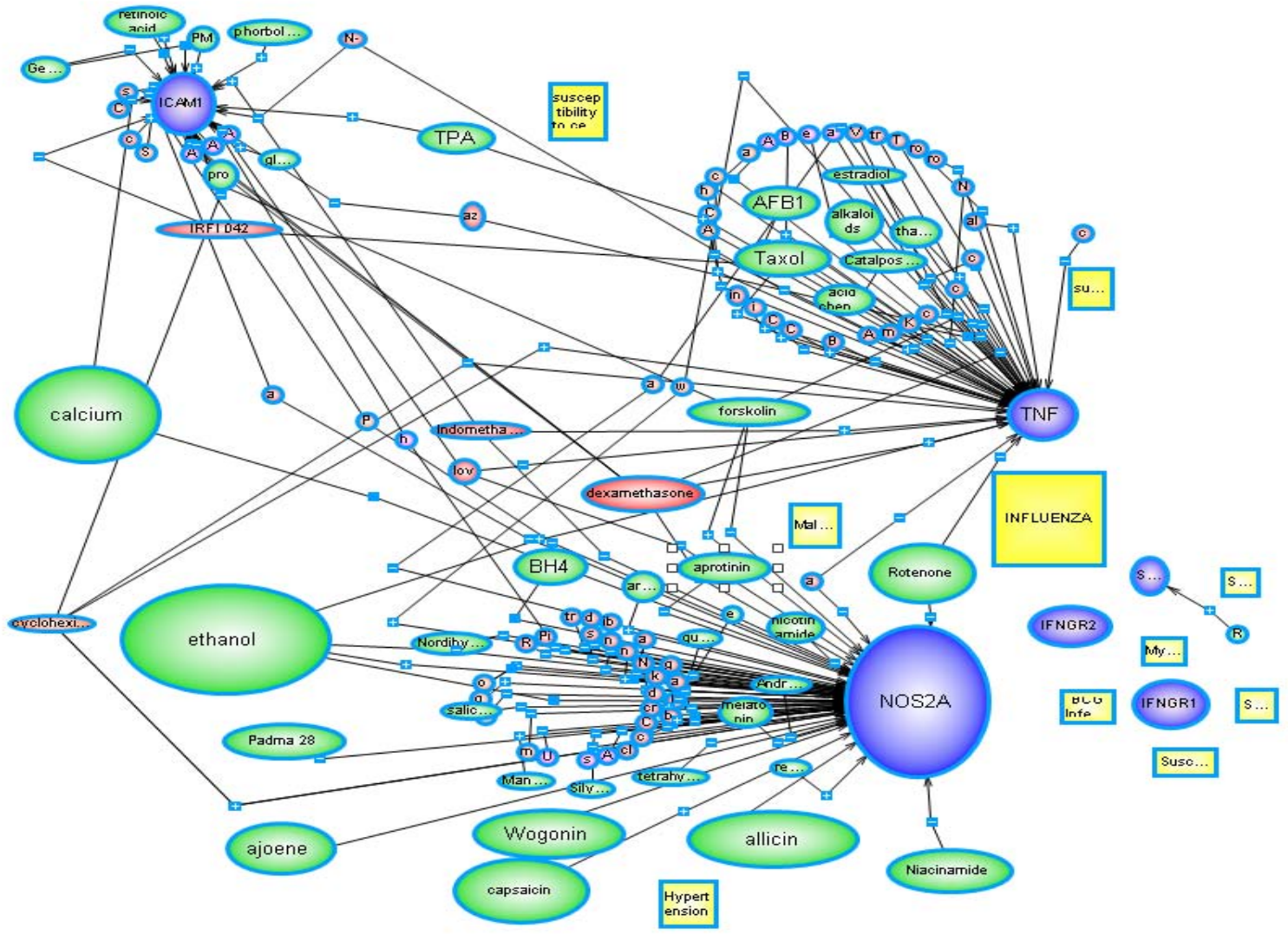


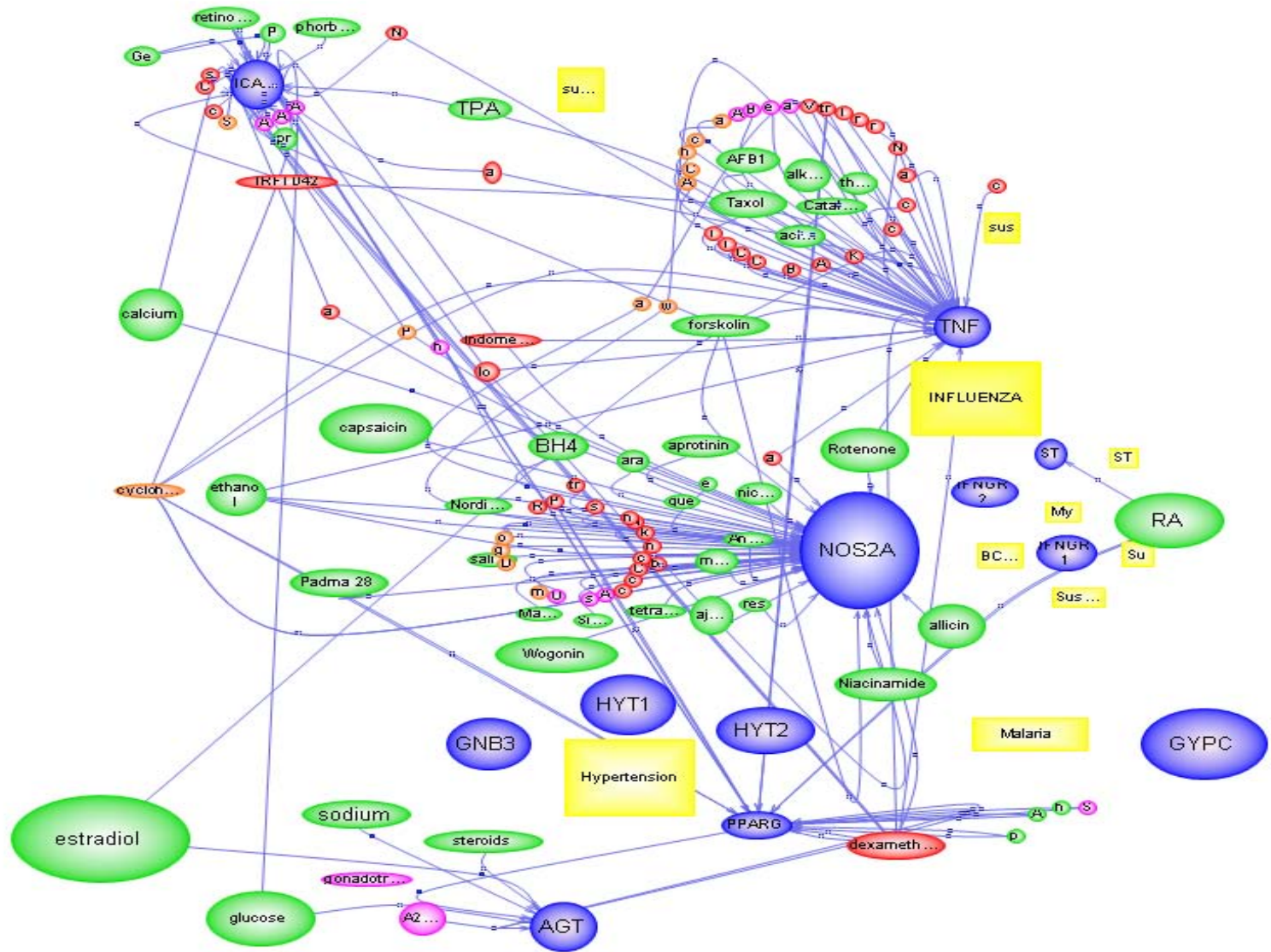






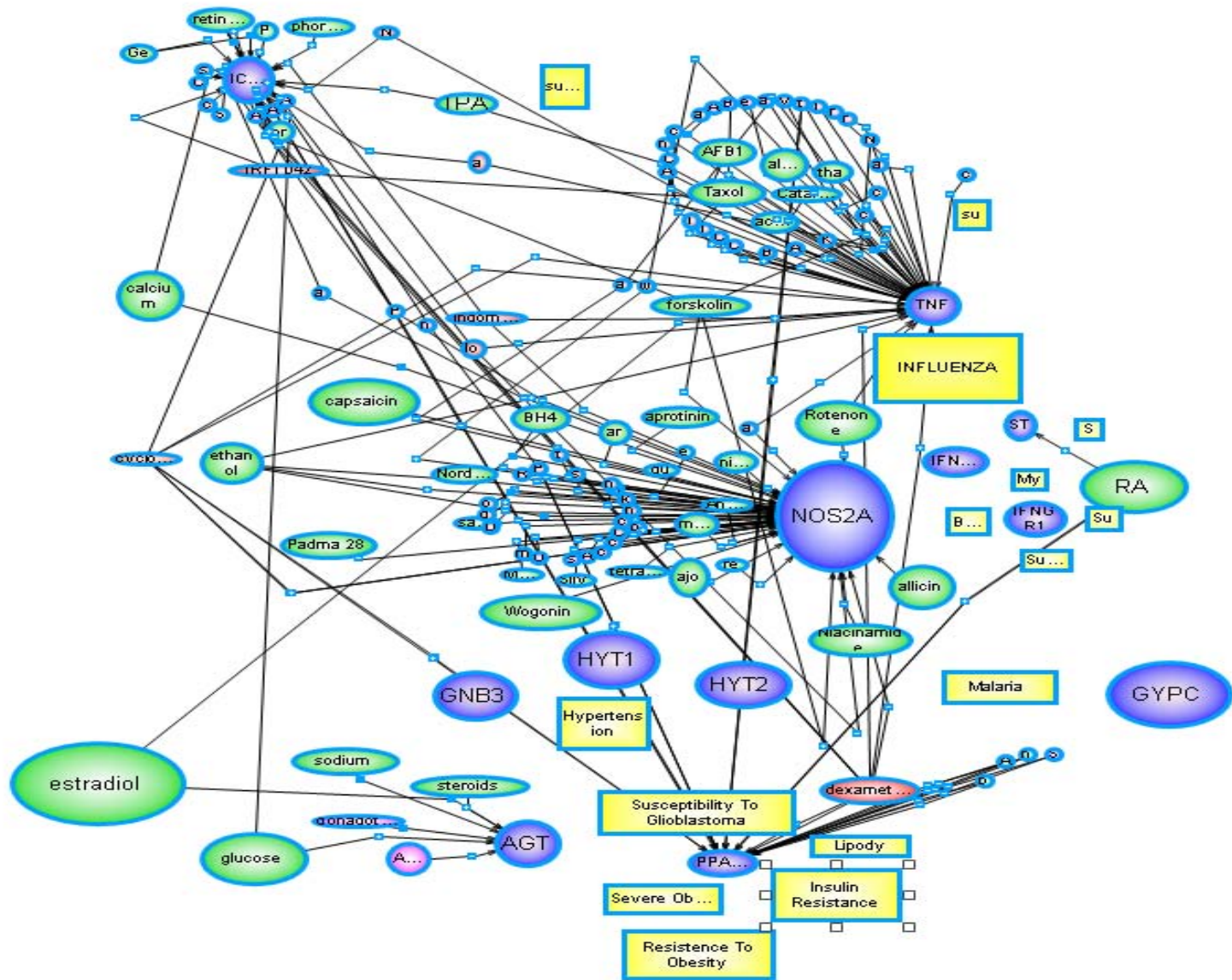






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Gene Choices

- Marginal
 - Nose Hair Growth
 - Finger Nail Growth
- No longer used
 - Infant tooth eruption
- Needed in future
 - Aging & Senescence

TOP SECRET

Operational Immediate

2 Oct 2004

2014 hrs local

From: Station Chief, Tehran

To: Director, Central Intelligence

Located, SE Iran, remnants of biological lab.

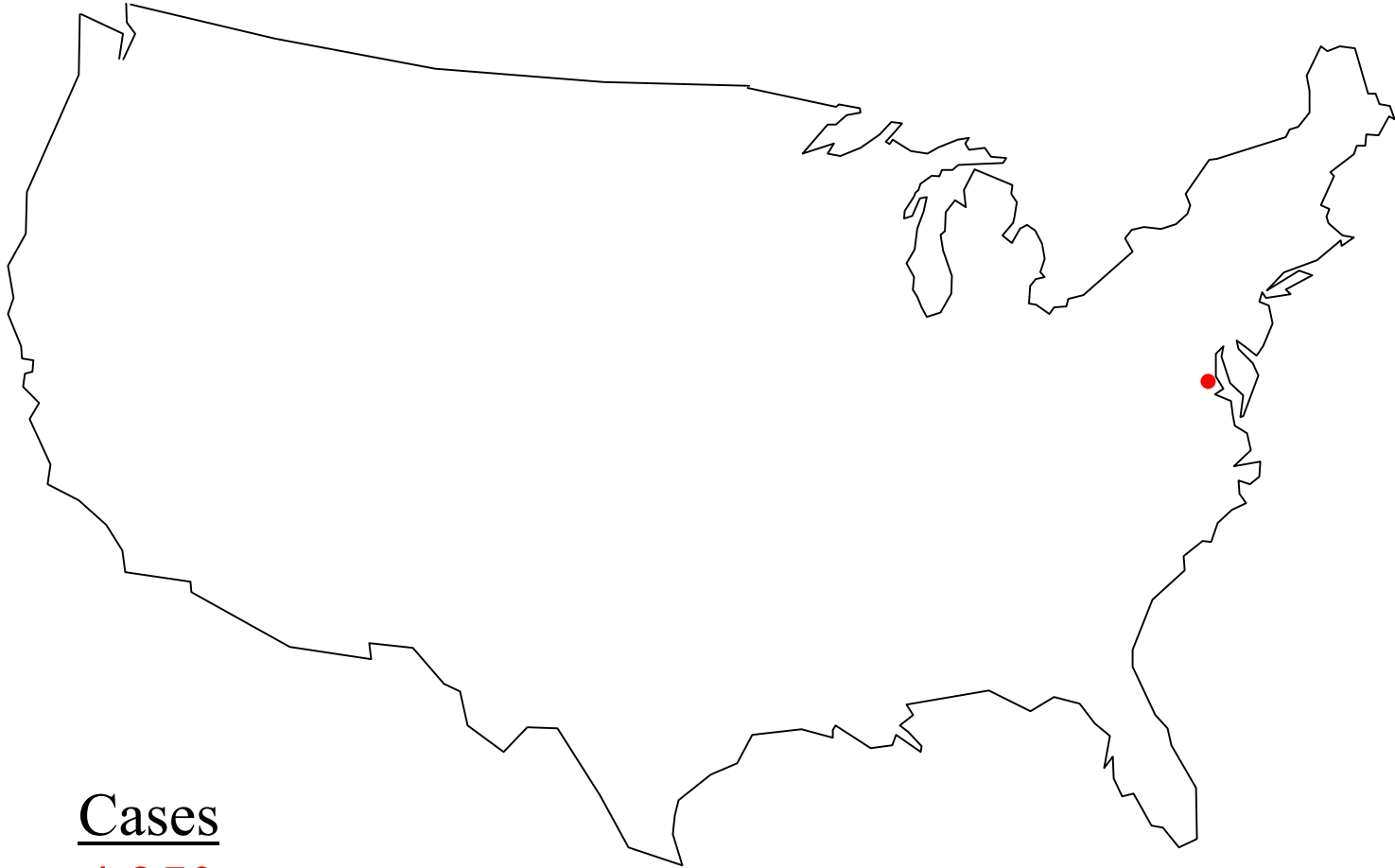
Samples found: new-variant influenza. Extremely virulent. Spanish flu-like.

Target: Election day - Washington, DC

More follows.

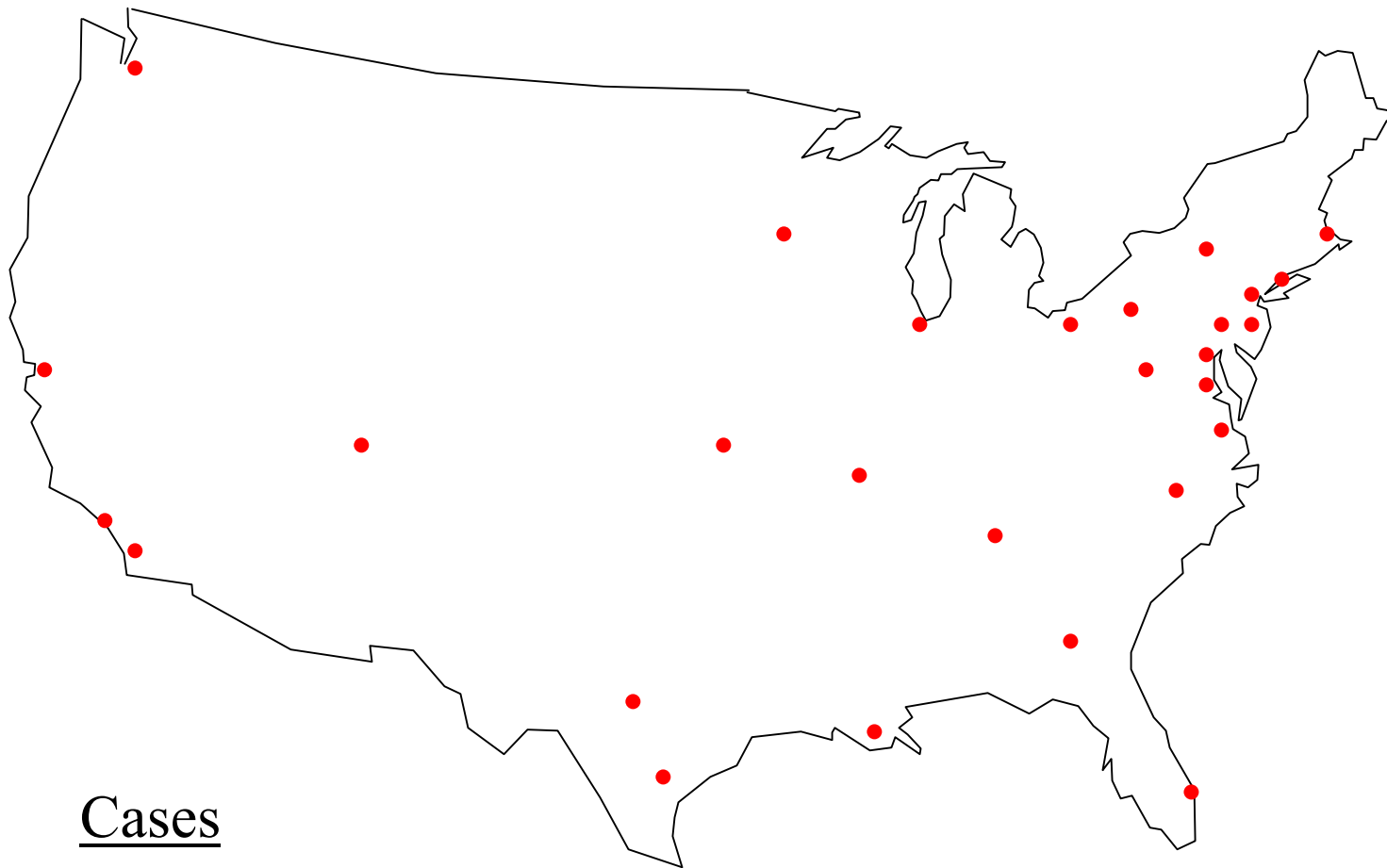


02 November 2004



Cases
4,950

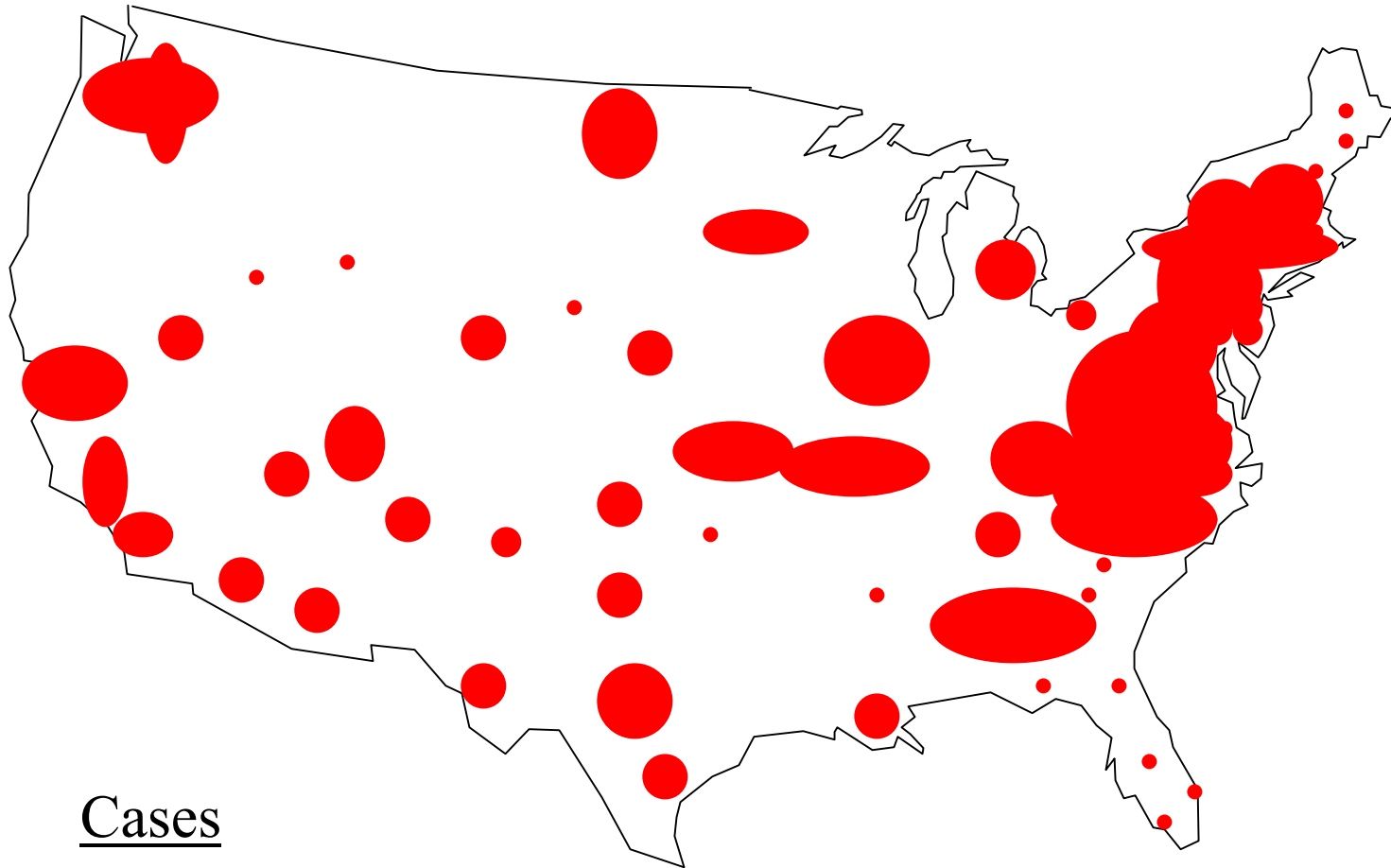
08 November 2004



Cases
89,377

DEAD
22,049

19 November 2004



Cases
2,276,231

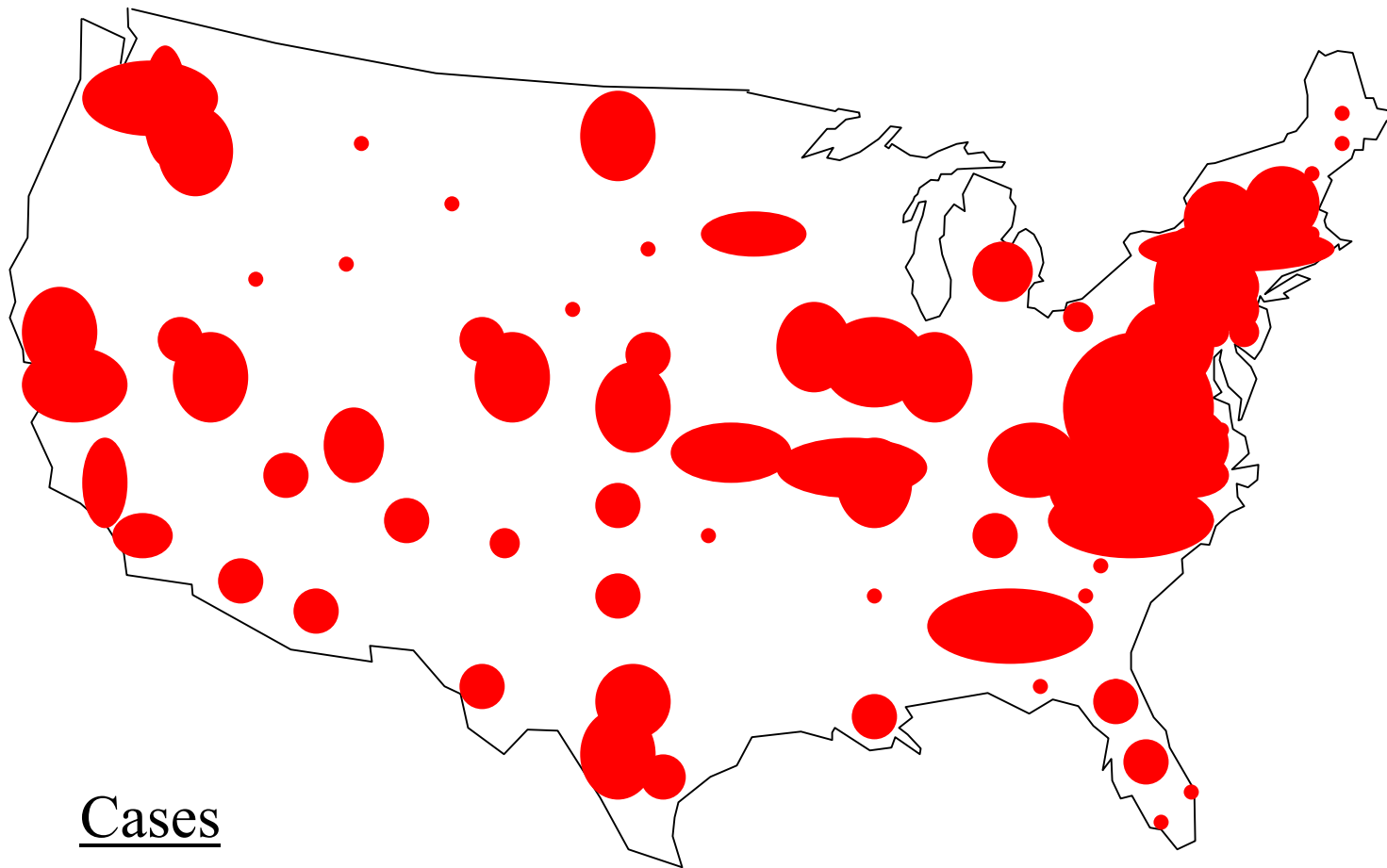
DEAD
562,941



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22 November 2004



Cases
4,191,126

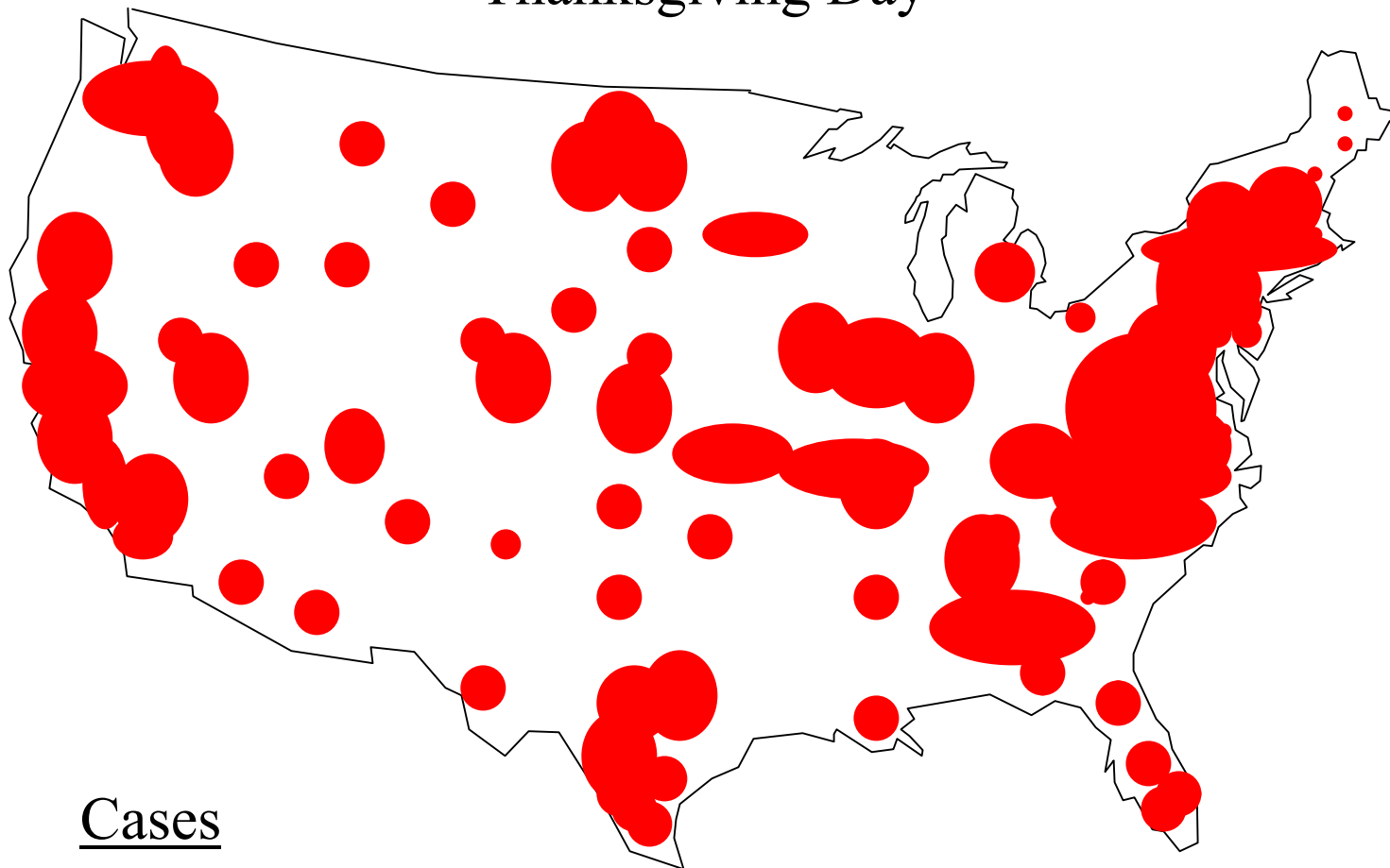
DEAD
1,003,222



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25 November 2004
Thanksgiving Day



Cases
7,285,725

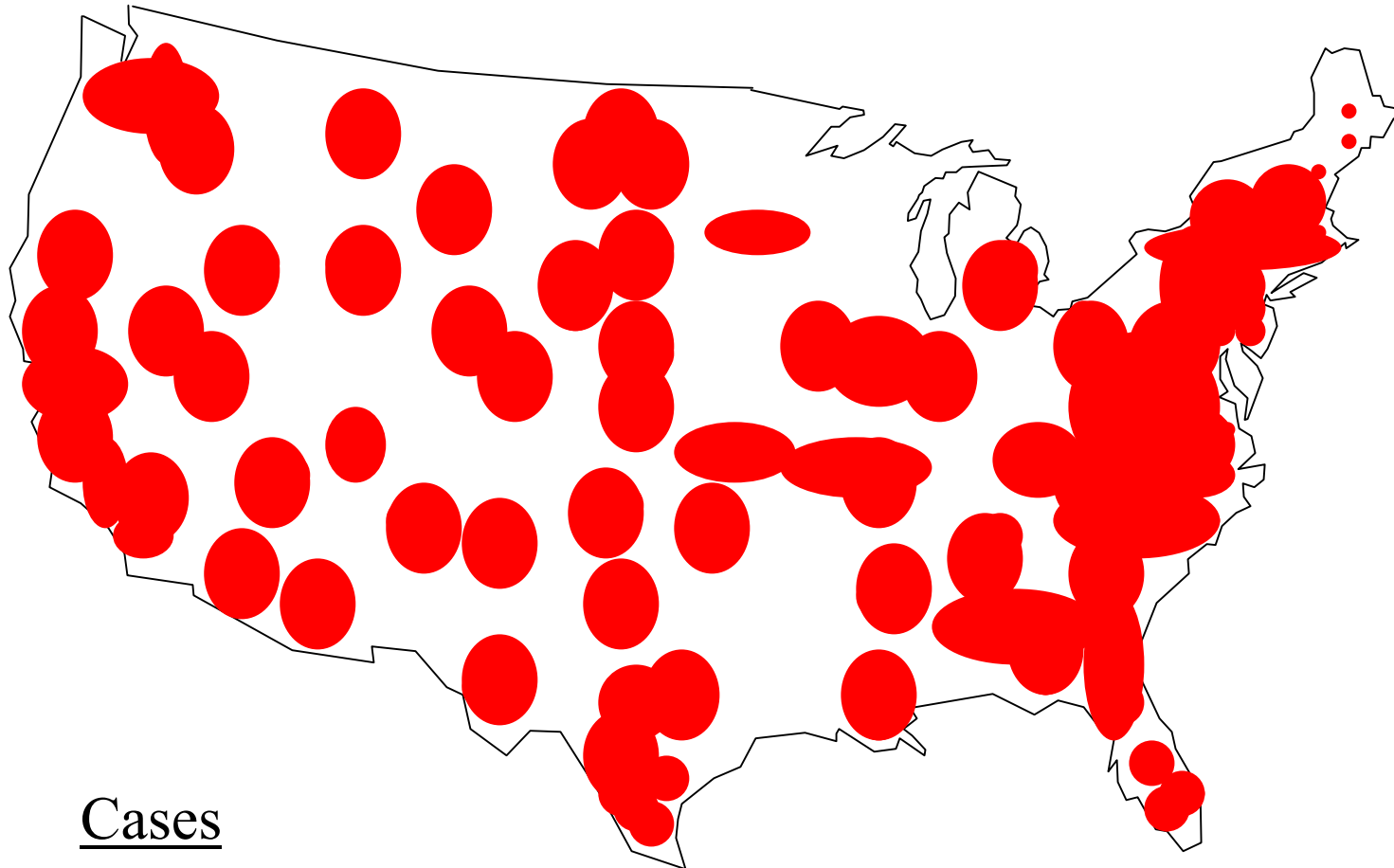
DEAD
1,679,434



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04 December 2004



Cases
10,120,438

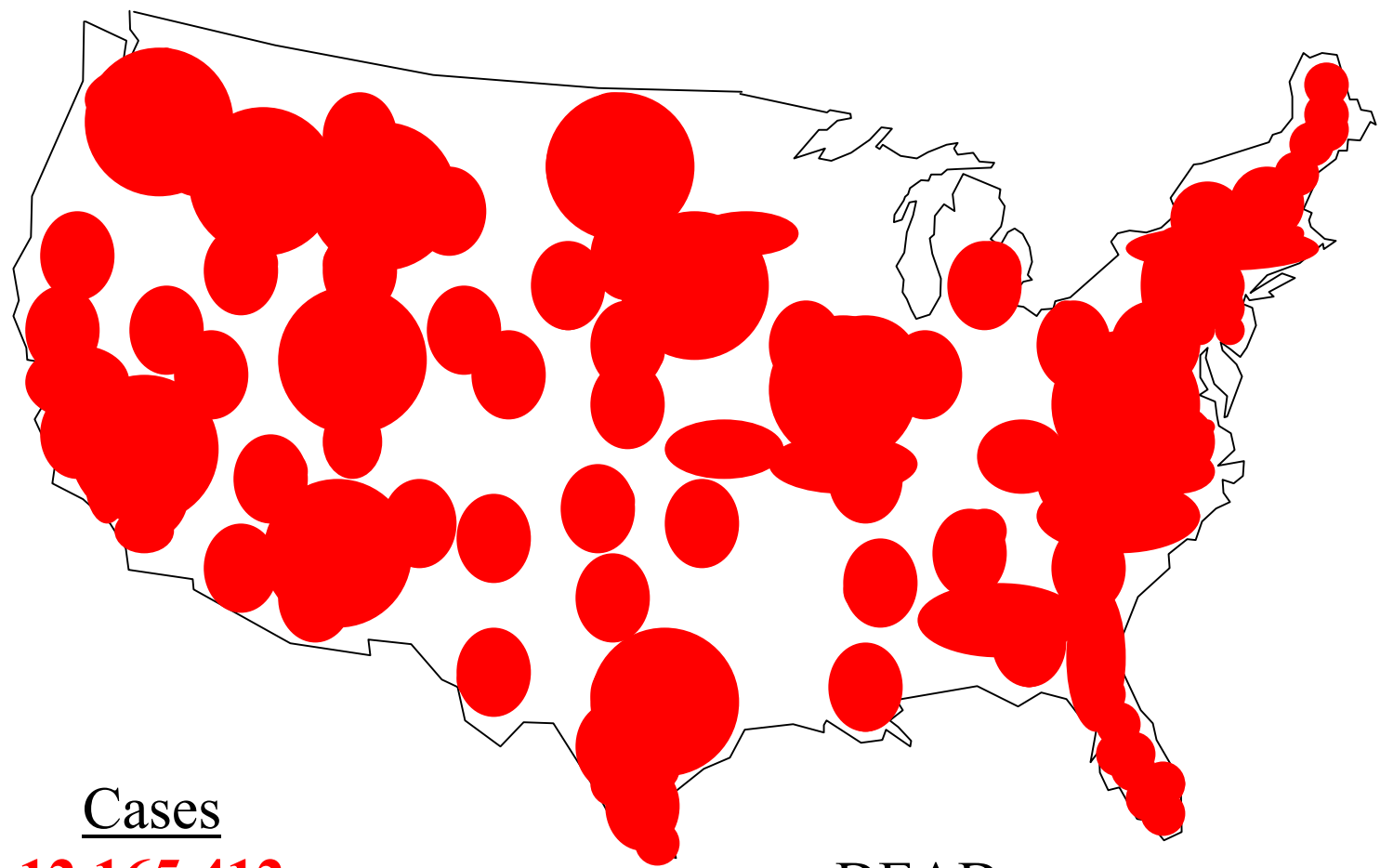
DEAD
2,277,005



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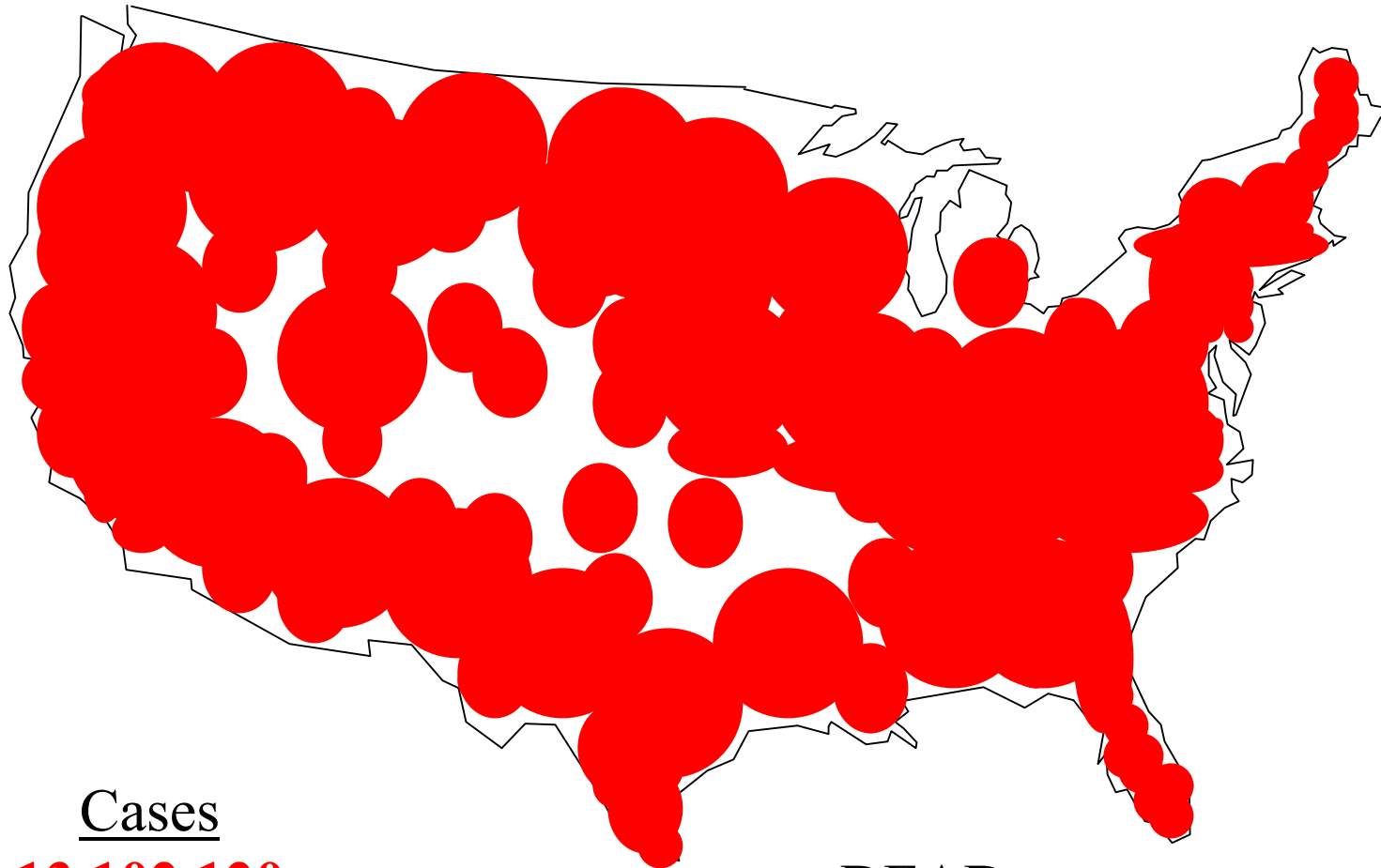
10 December 2004



Cases
12,165,412

DEAD
2,758,305

16 December 2004



Cases
13,102,120

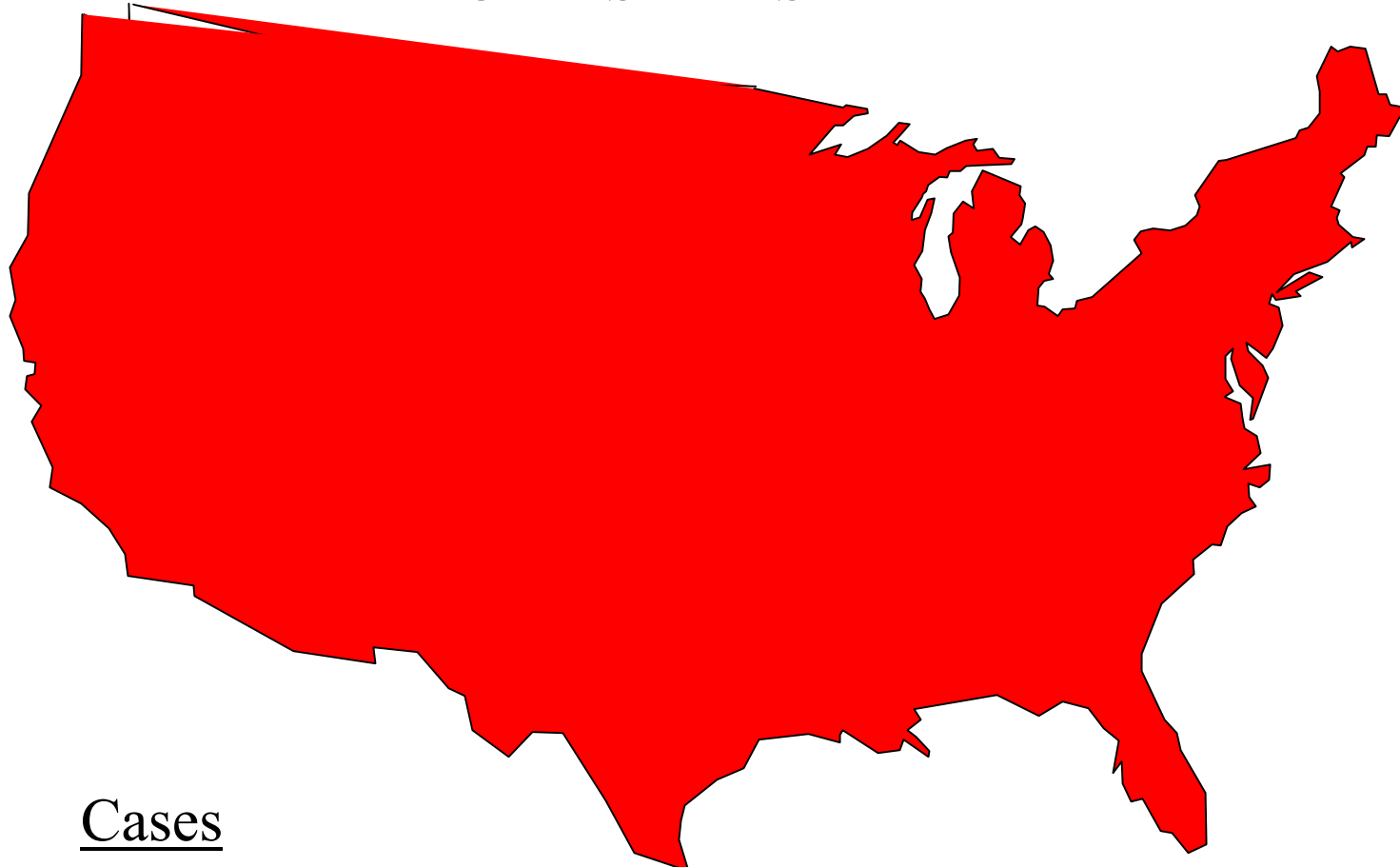
DEAD
2,962,989



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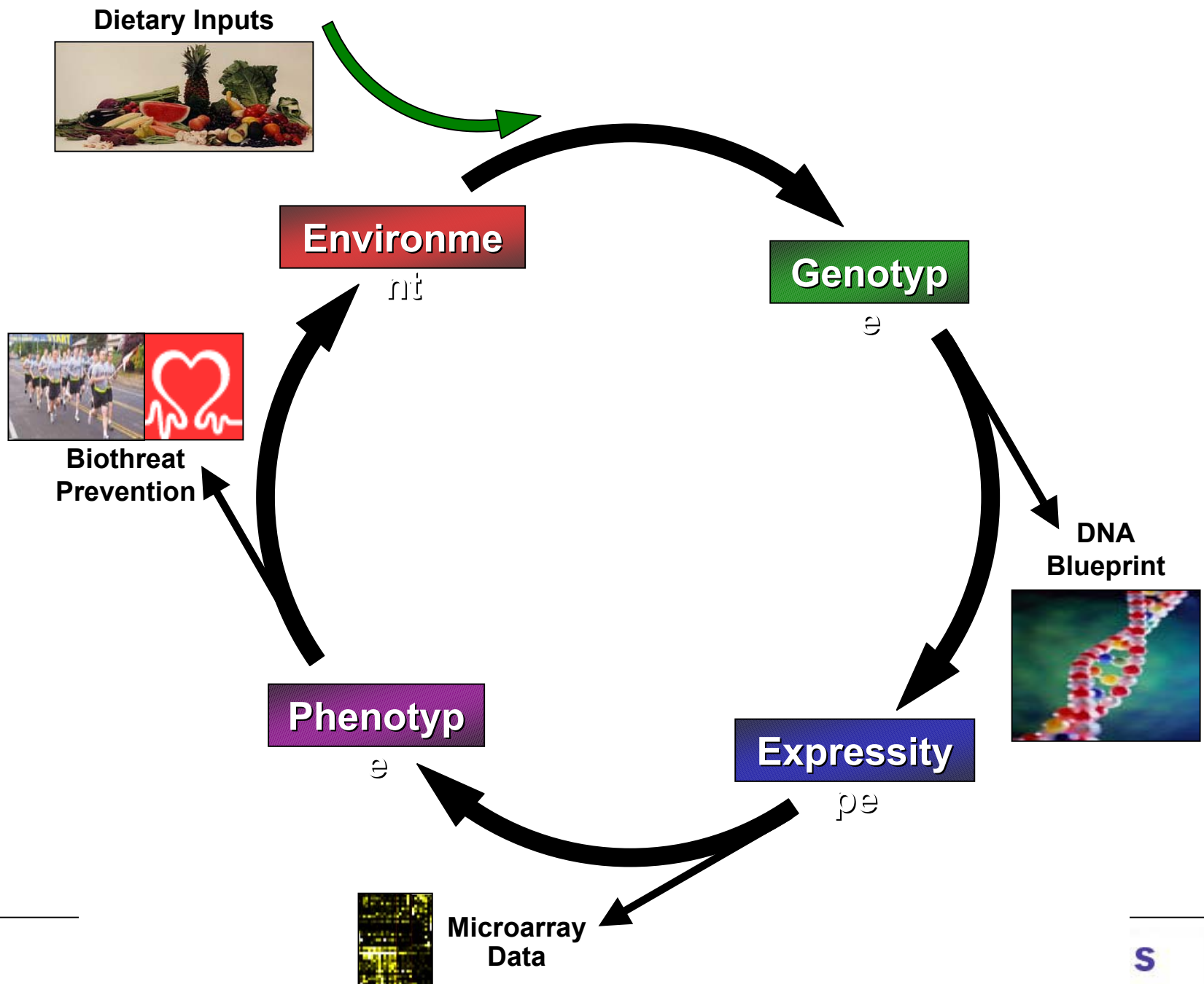
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25 December 2004
CHRISTMAS DAY



Cases
13,657,260

DEAD
3,081,035



Advantages

NutriGenomic Anti-Viral (NAV) System

- Fast response time
- Uses existing foods & supplements
- Responds to new viral variants
- Can isolate effective combinations of dietary chemicals, for use in supplements, foods, pharmaceuticals
- Can respond to multiple-viral complex
- No apparent way to design around

AlphaGenics Team

- Fredric Abramson, President & CEO
- Jeffrey Lang, Director of Finance
- Jeffrey Kilgour, Chief Information Officer
- Siani Kayani, Digital Biologist
- Julie Nisson, Digital Biologist
- Meredith Libeg, Digital Biologist
- Mark Rockman, Systems Programmer

- “The flying machine which will really fly might be evolved by the combined and continuous efforts of mathematicians and mechanics in from one million to ten million years”
 - The New York Times
 - 9 October 1903

- “We started assembly today”
 - Orville Wright’s Diary
 - 9 October 1903



AlphaGenics, Inc.

www.Alpha-Genics.com

THANK YOU

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