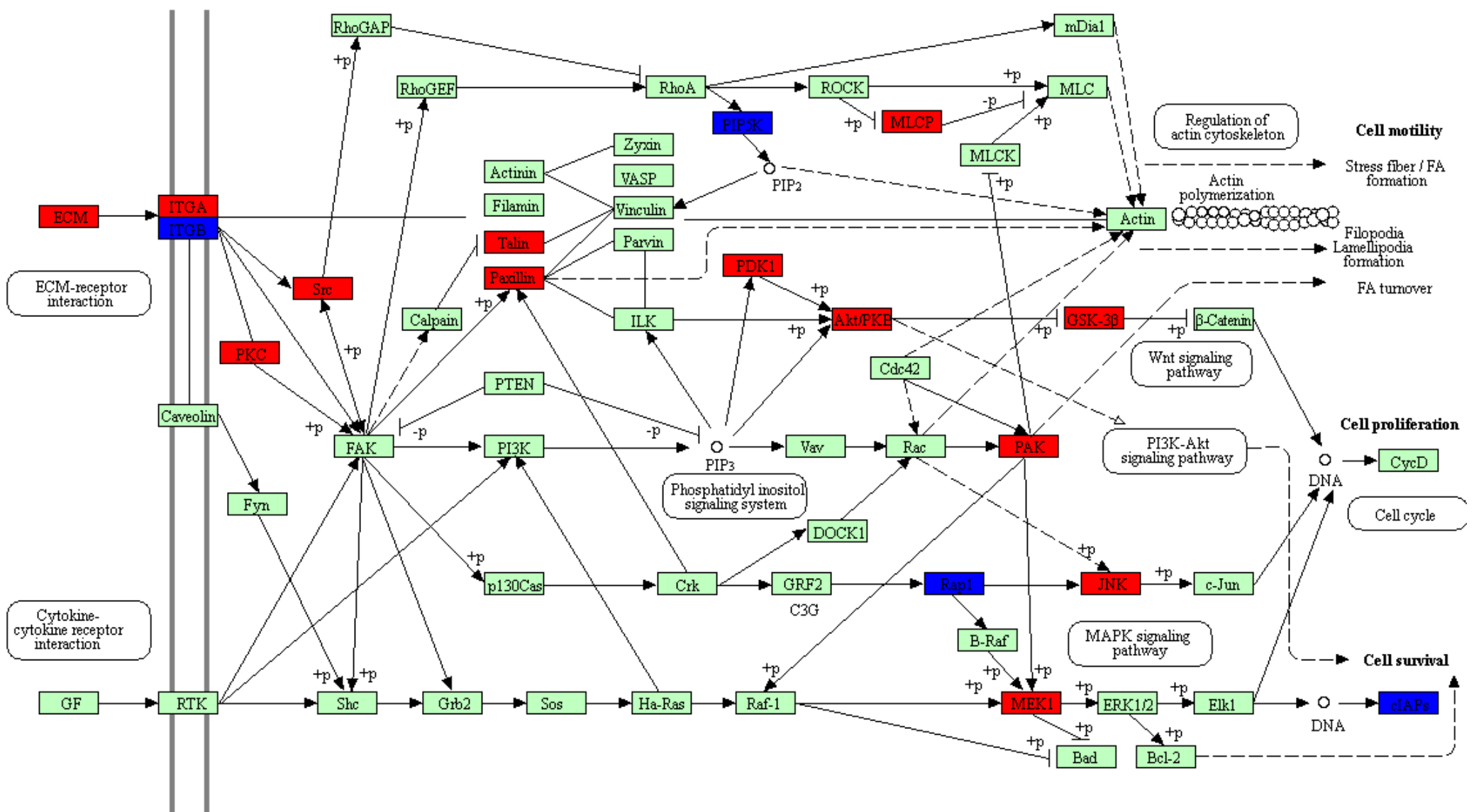


Supplemental Figure 1

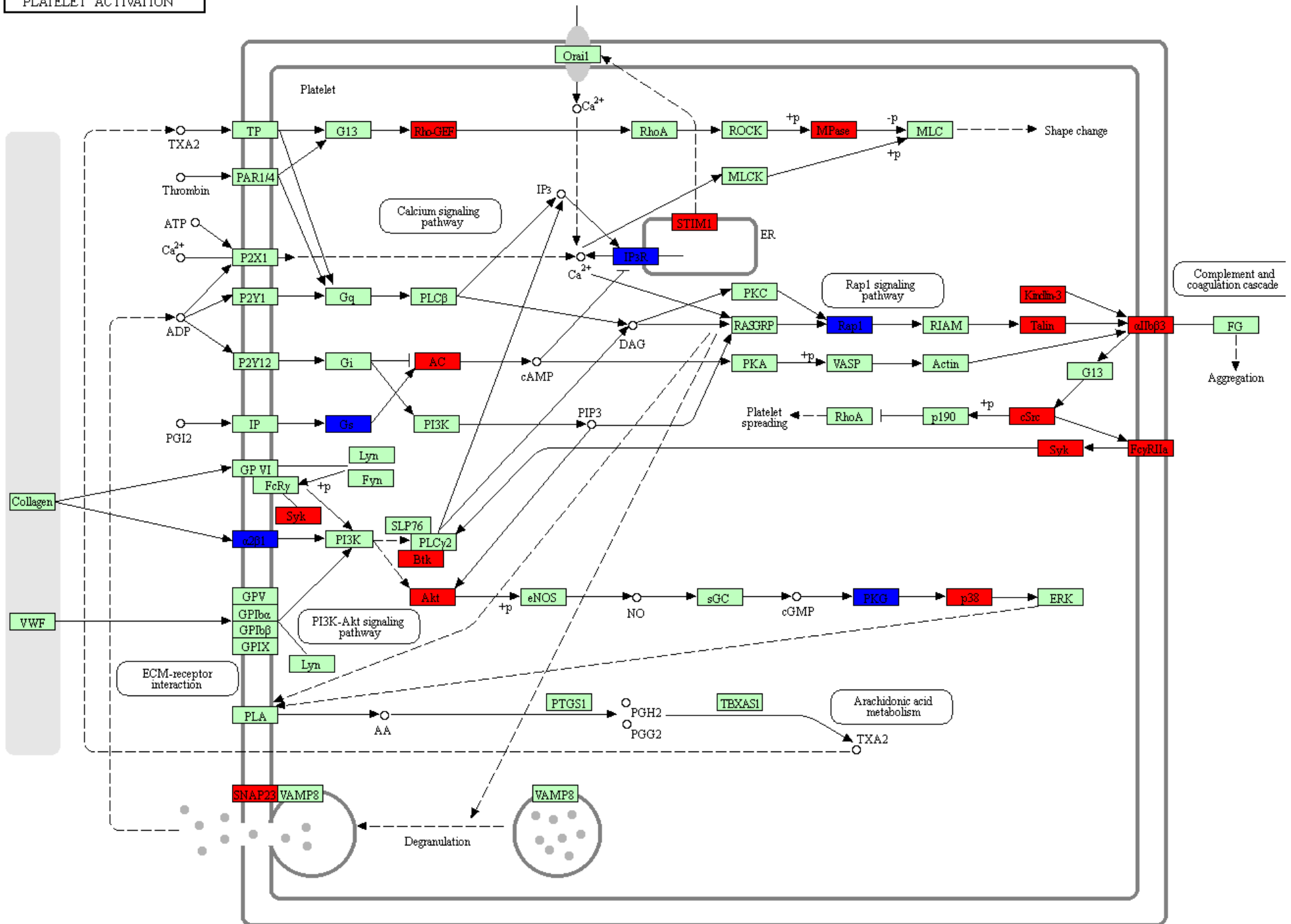
52 statistically significant KEGG pathways enriched with 1088 overlapped molecules (DEGs; proteins)

1. Focal adhesion
2. Carbon metabolism
3. Platelet activation
4. Dopaminergic synapse
5. Human cytomegalovirus infection
6. Proteoglycans in cancer
7. Regulation of actin cytoskeleton
8. cGMP-PKG signaling pathway
9. Retrograde endocannabinoid signaling
10. Biosynthesis of amino acids
11. Thyroid hormone signaling pathway
12. Adrenergic signaling in cardiomyocytes
13. ECM-receptor interaction
14. Relaxin signaling pathway
15. Insulin signaling pathway
16. PPAR signaling pathway
17. Neurotrophin signaling pathway
18. Estrogen signaling pathway
19. Dilated cardiomyopathy (DCM)
20. Hypertrophic cardiomyopathy (HCM)
21. Circadian entrainment
22. Glucagon signaling pathway
23. Glycolysis / Gluconeogenesis
24. Phagosome
25. Salivary secretion
26. Aldosterone synthesis and secretion
27. Pancreatic secretion
28. Inflammatory mediator regulation of TRP channels
29. C-type lectin receptor signaling pathway
30. Cholinergic synapse
31. Gap junction
32. GnRH signaling pathway
33. HIF-1 signaling pathway
34. Fatty acid metabolism
35. Arrhythmogenic right ventricular cardiomyopathy (ARVC)
36. Small cell lung cancer
37. Adipocytokine signaling pathway
38. Amphetamine addiction
39. Gastric acid secretion
40. Glycine, serine and threonine metabolism
41. Arginine and proline metabolism
42. Ferroptosis
43. Cysteine and methionine metabolism
44. Pyruvate metabolism
45. Fatty acid degradation
46. Biosynthesis of unsaturated fatty acids
47. Citrate cycle (TCA cycle)
48. Pentose phosphate pathway
49. Glyoxylate and dicarboxylate metabolism
50. Mucin type O-glycan biosynthesis
51. Propanoate metabolism
52. Proximal tubule bicarbonate reclamation

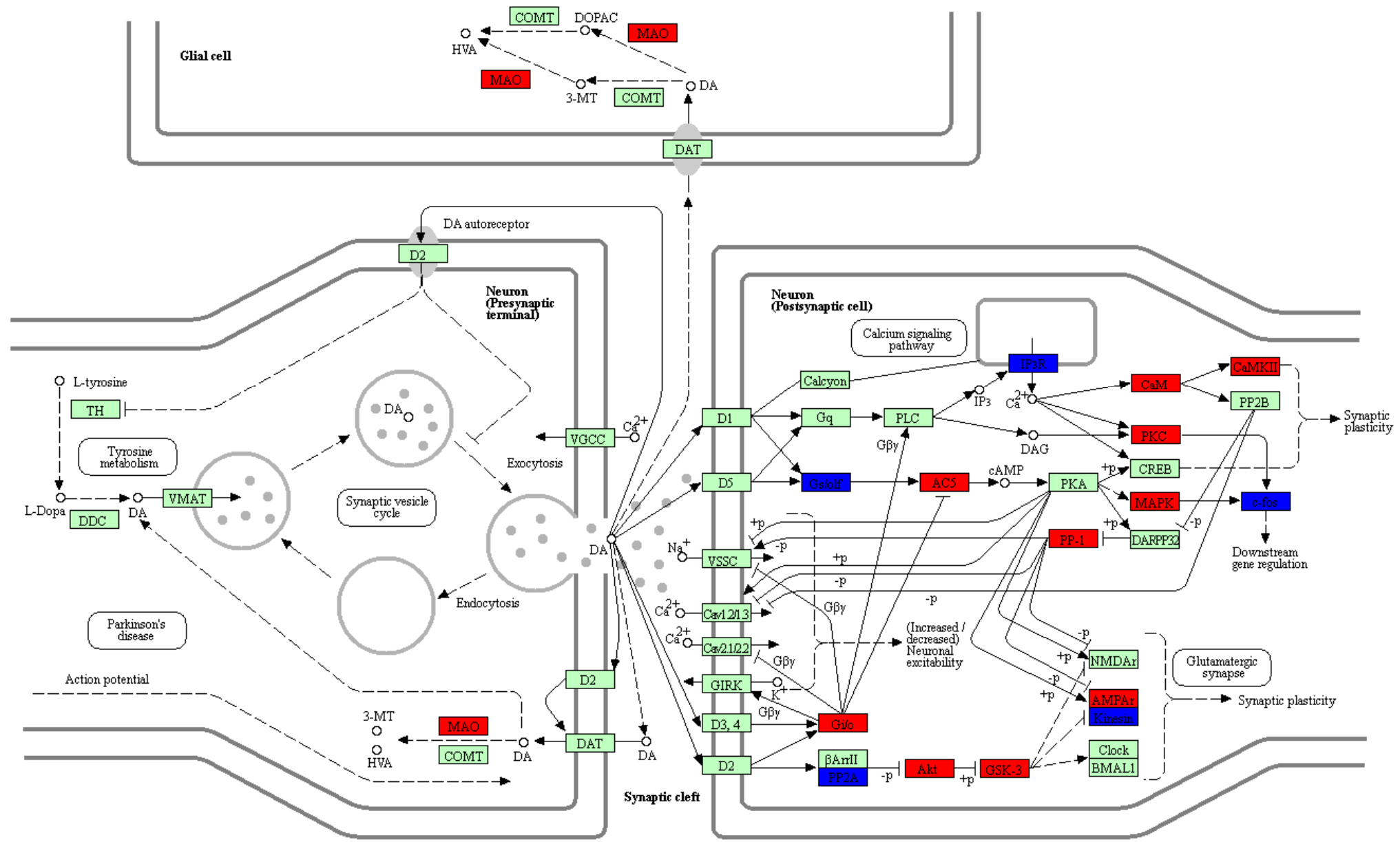
FOCAL ADHESION



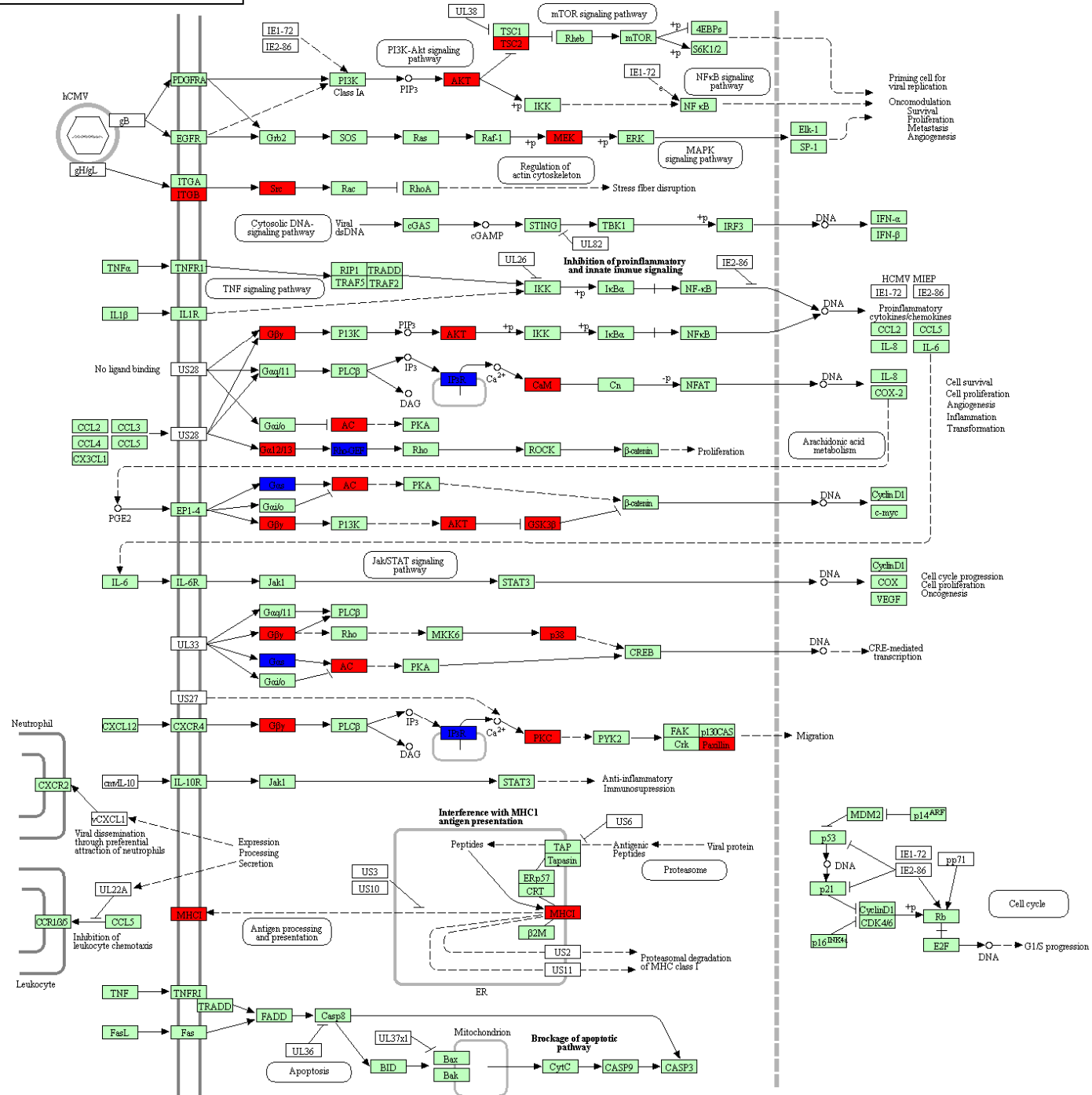
PLATELET ACTIVATION



DOPAMINERGIC SYNAPSE

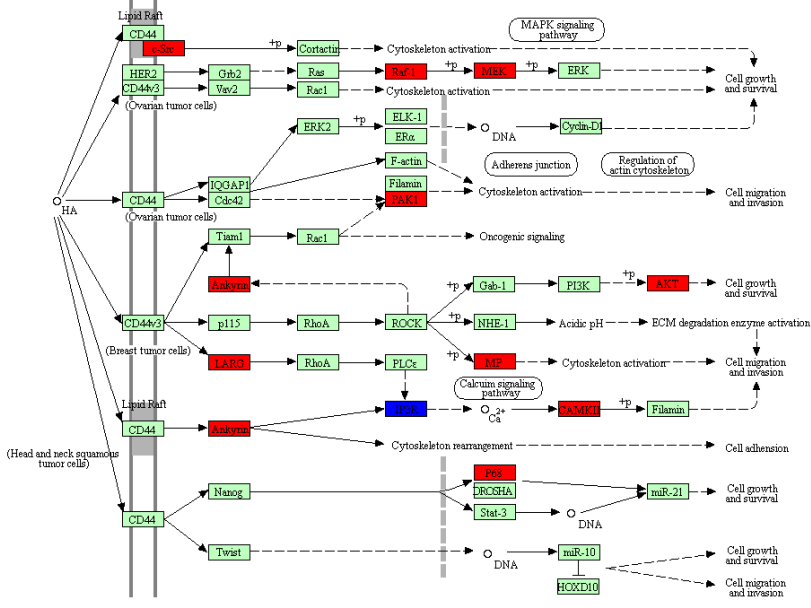


HUMAN CYTOMEGALOVIRUS INFECTION

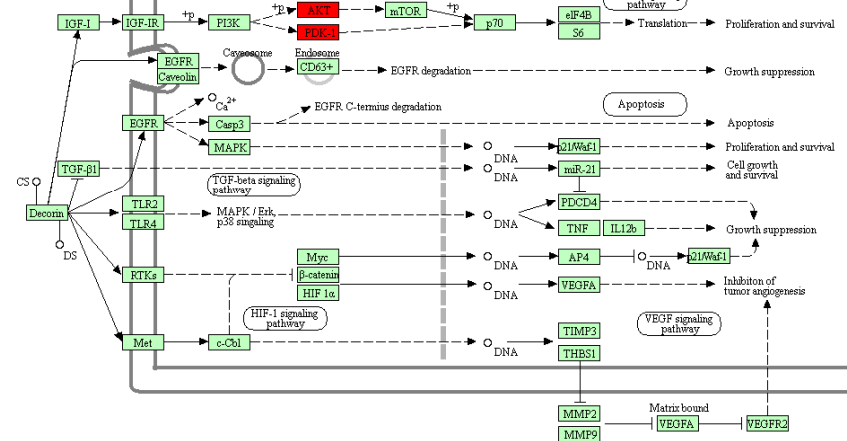


PROTEOGLYCAN IN CANCER

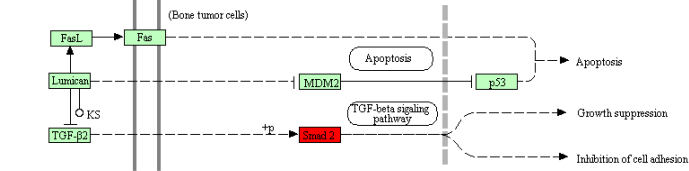
Hyaluronan (HA)



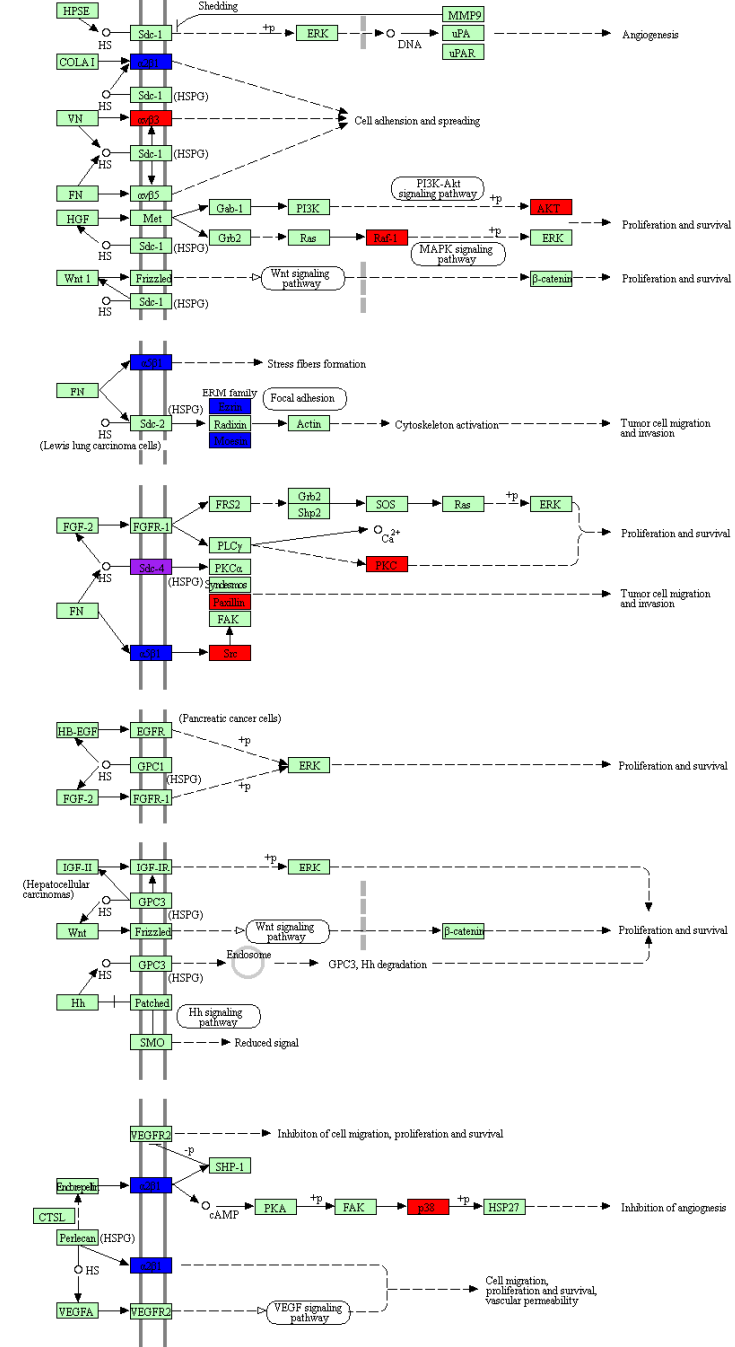
Chondroitin sulfate/ Dermatan sulfate proteoglycan (CSPG/DSPG)



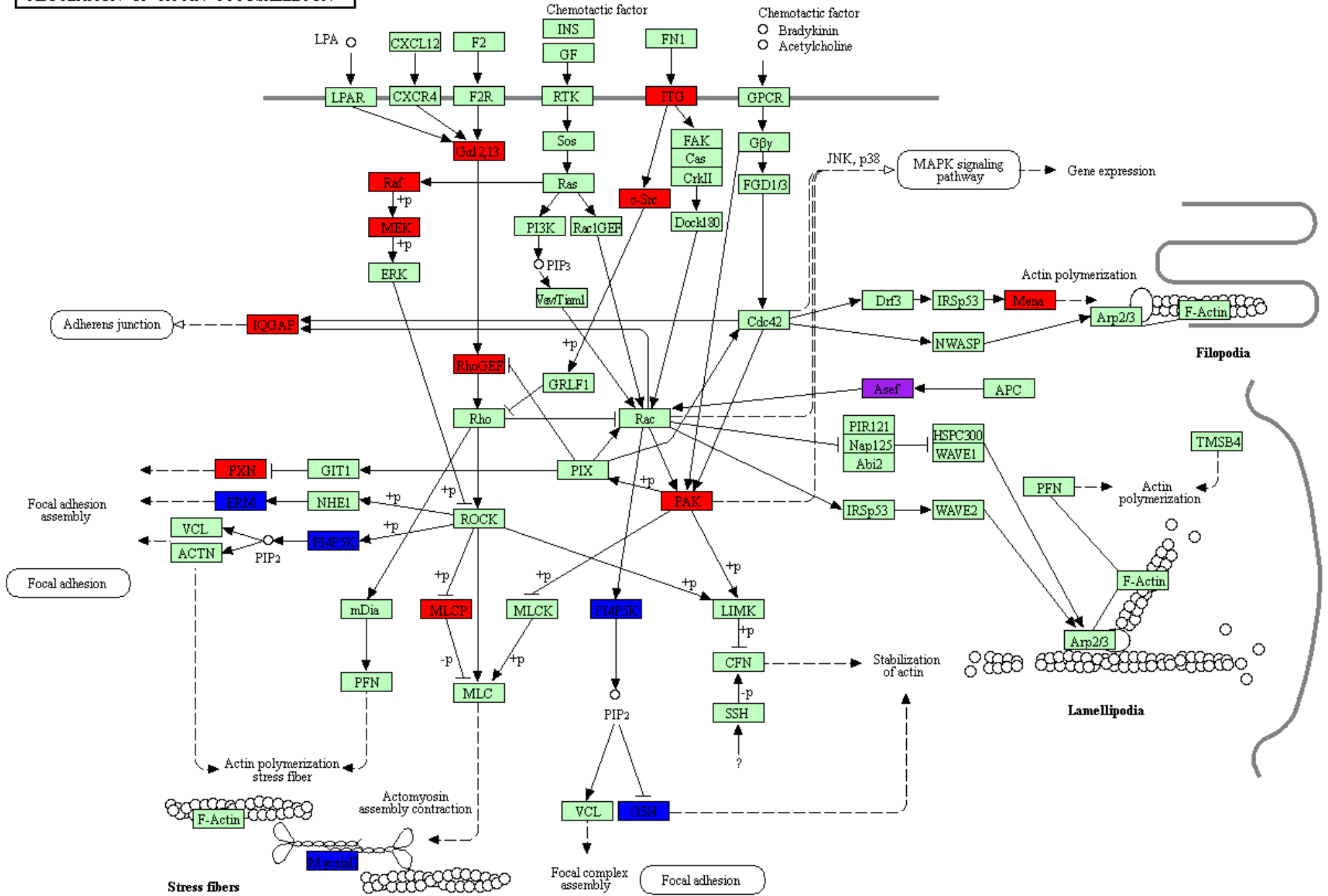
Keratan sulfate proteoglycan (KSPG)



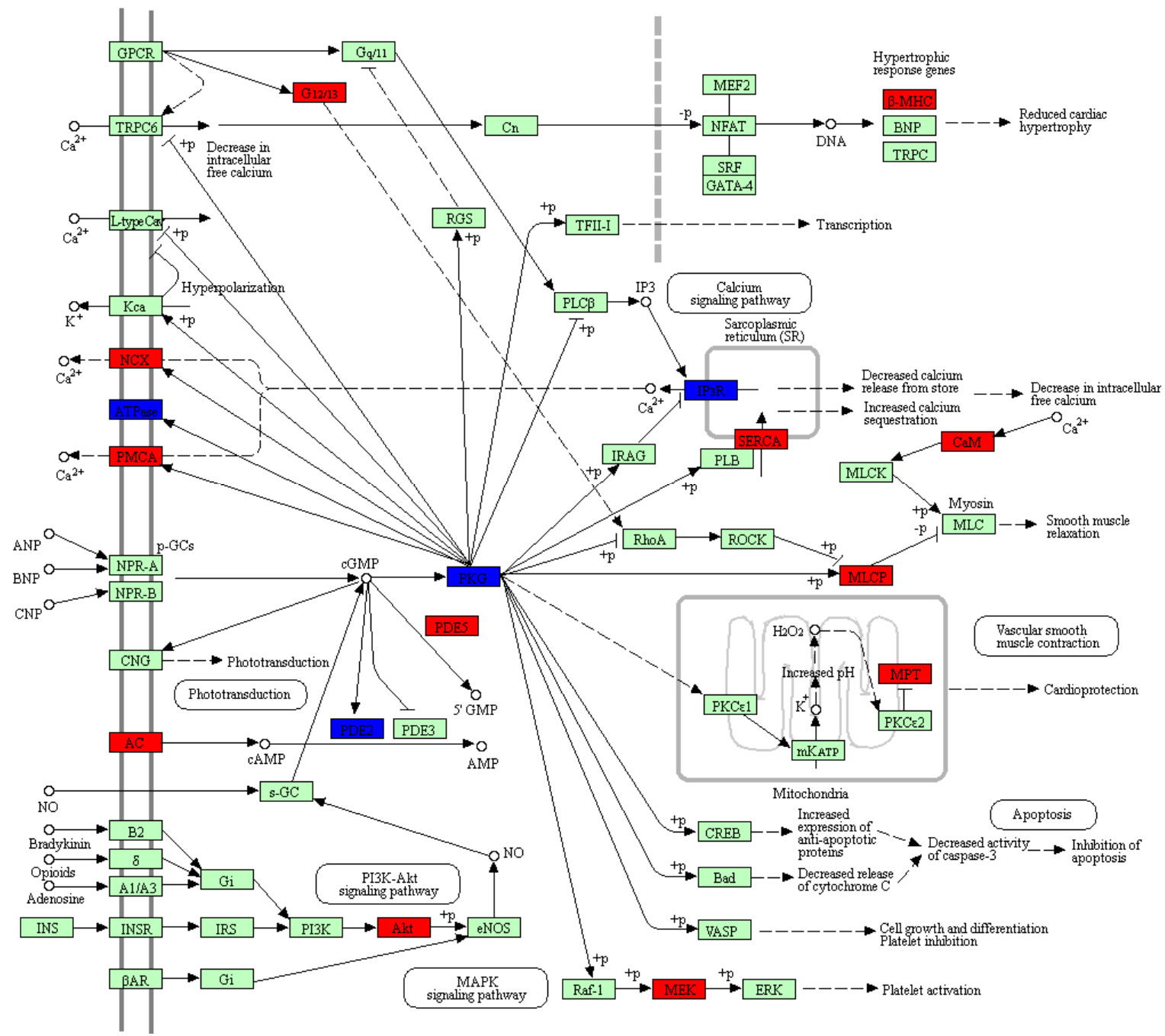
Heparan sulfate proteoglycans (HSPGs)



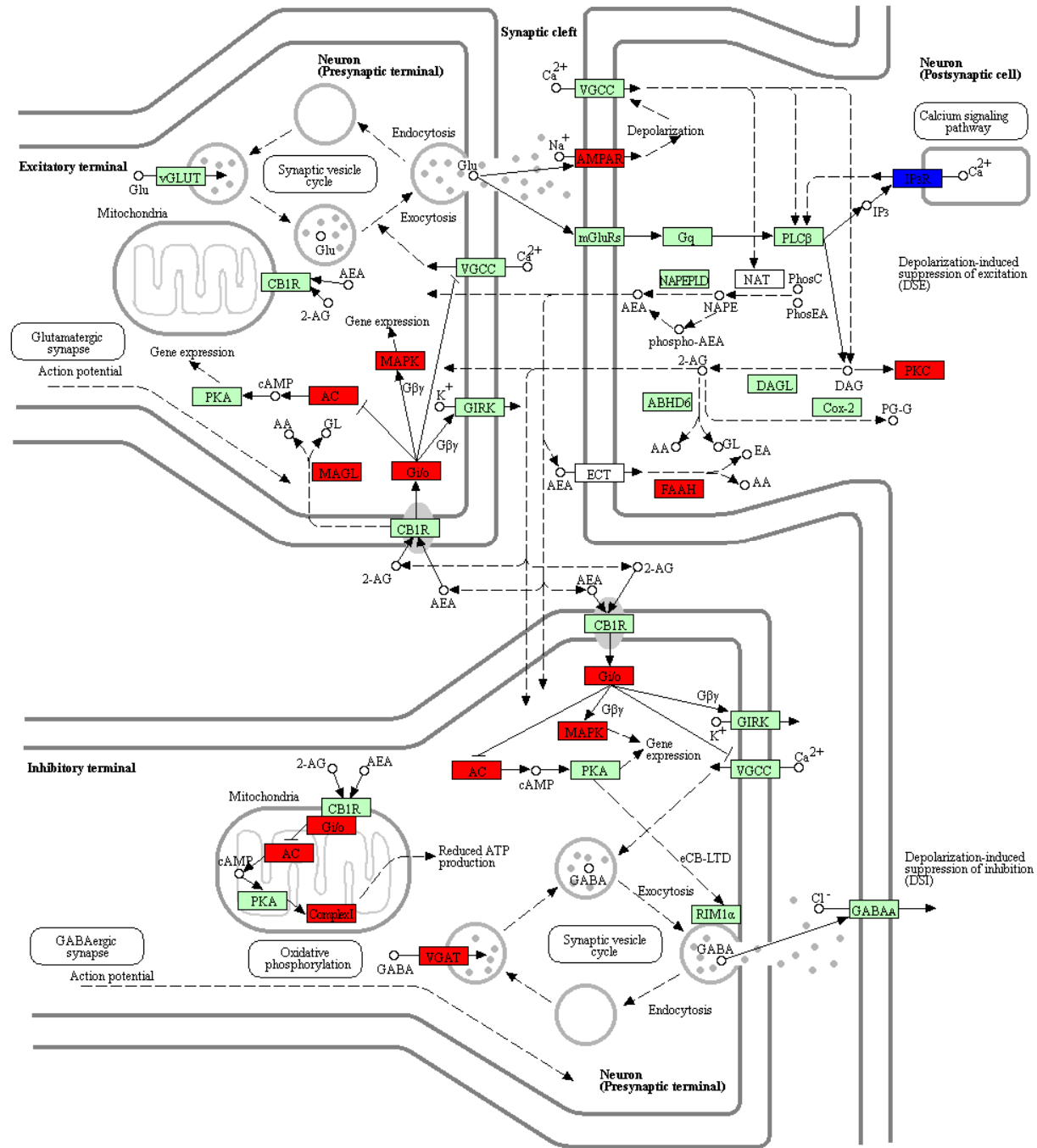
REGULATION OF ACTIN CYTOSKELETON



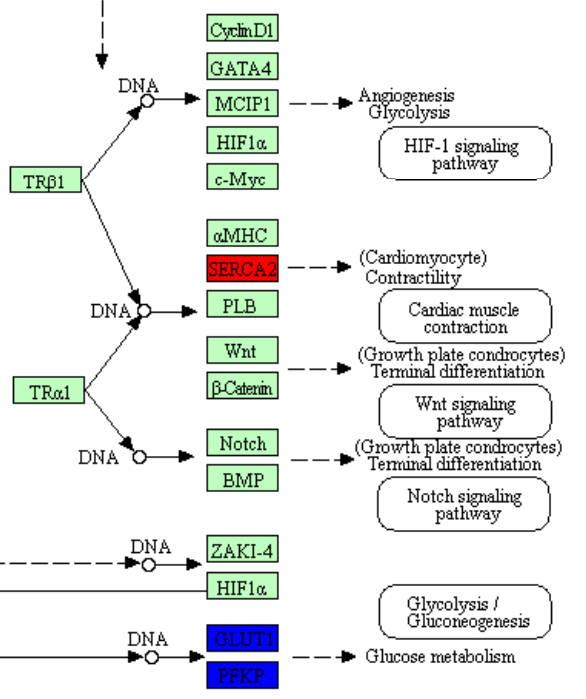
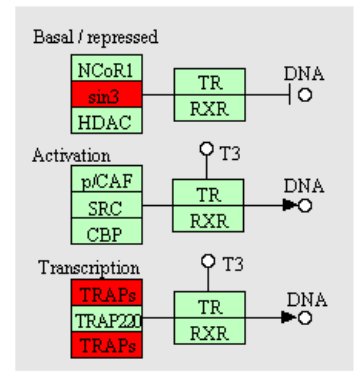
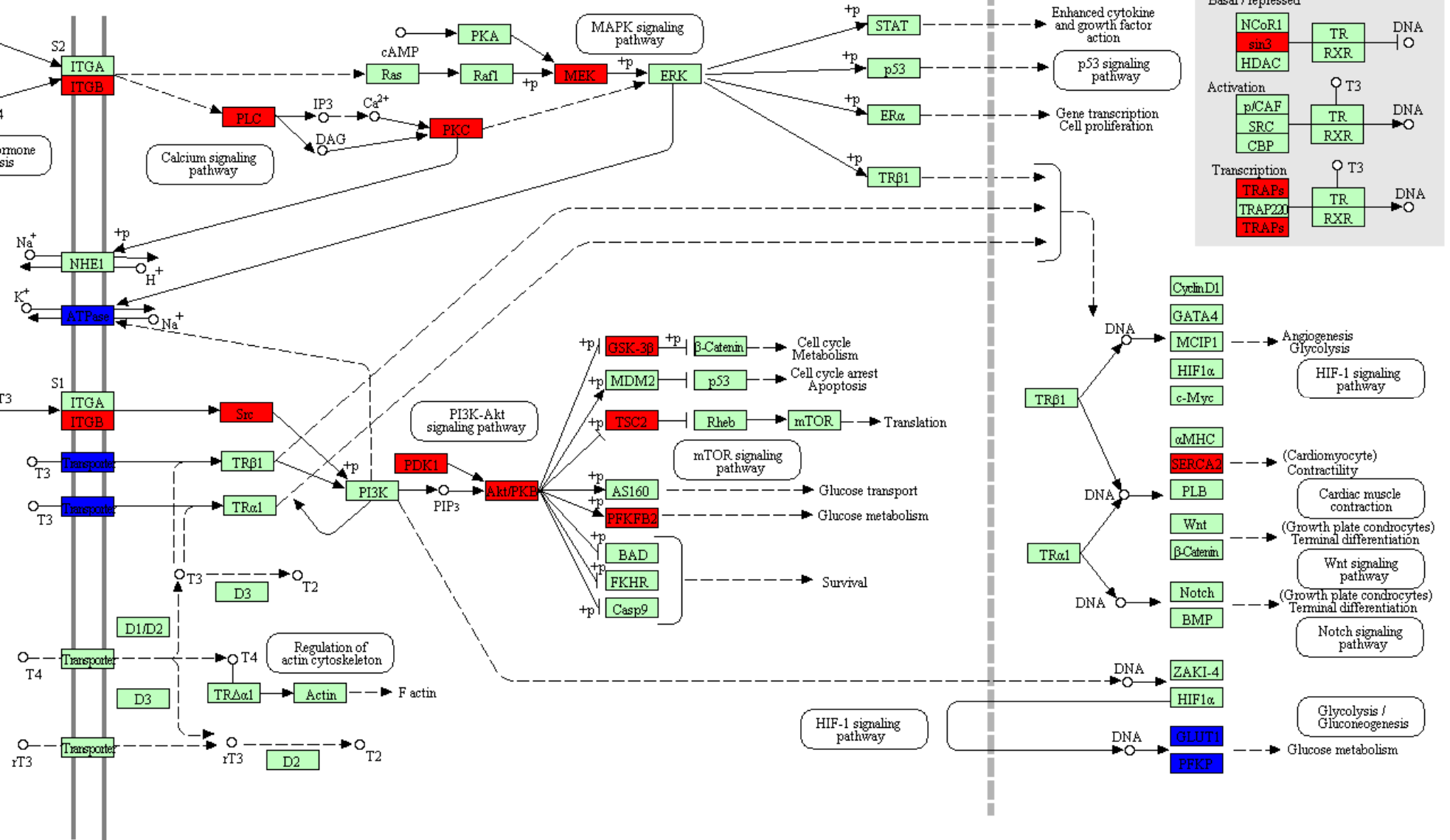
cGMP-PKG SIGNALING PATHWAY



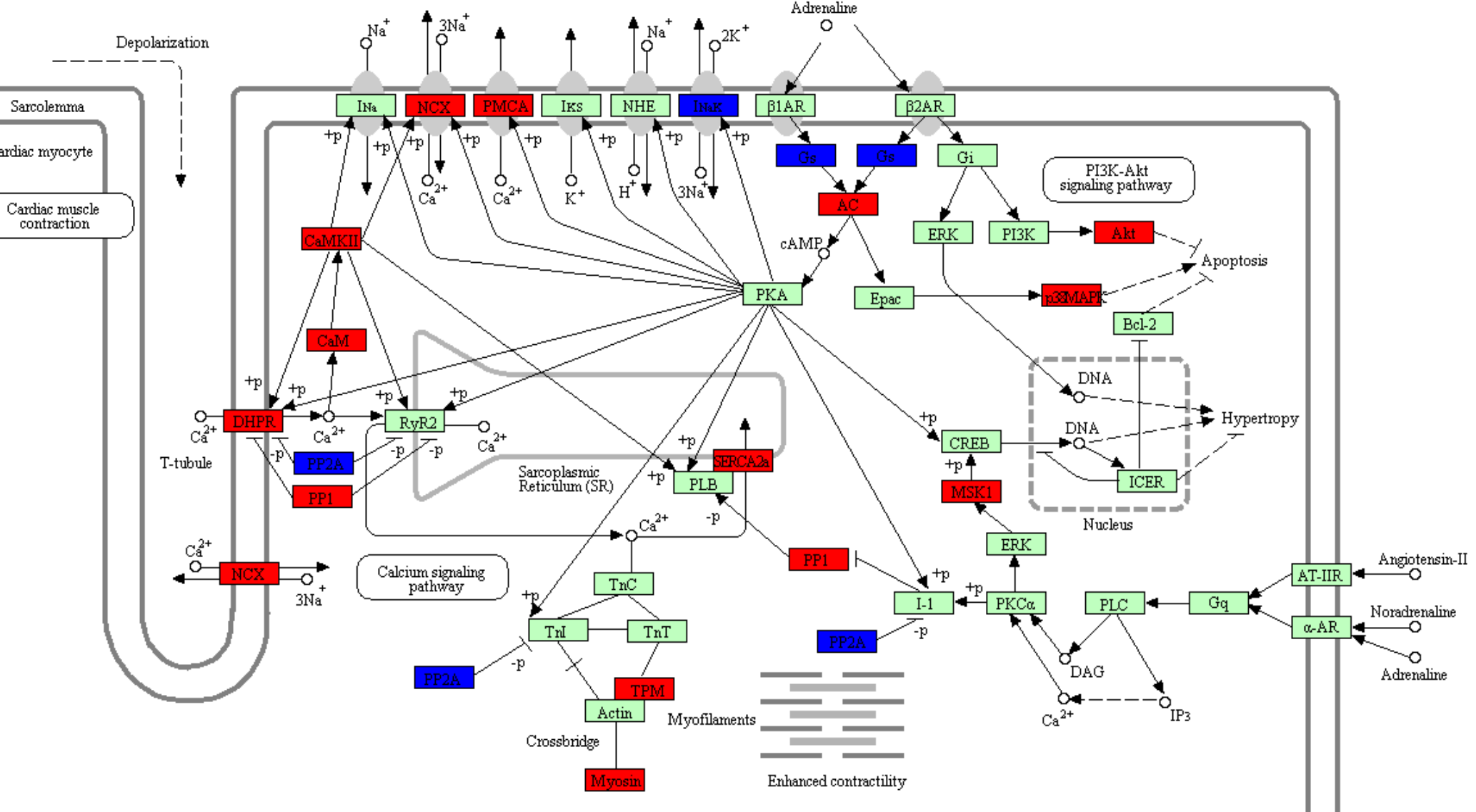
RETROGRADE ENDOCANNABINOID SIGNALING



HORMONE SIGNALING PATHWAY



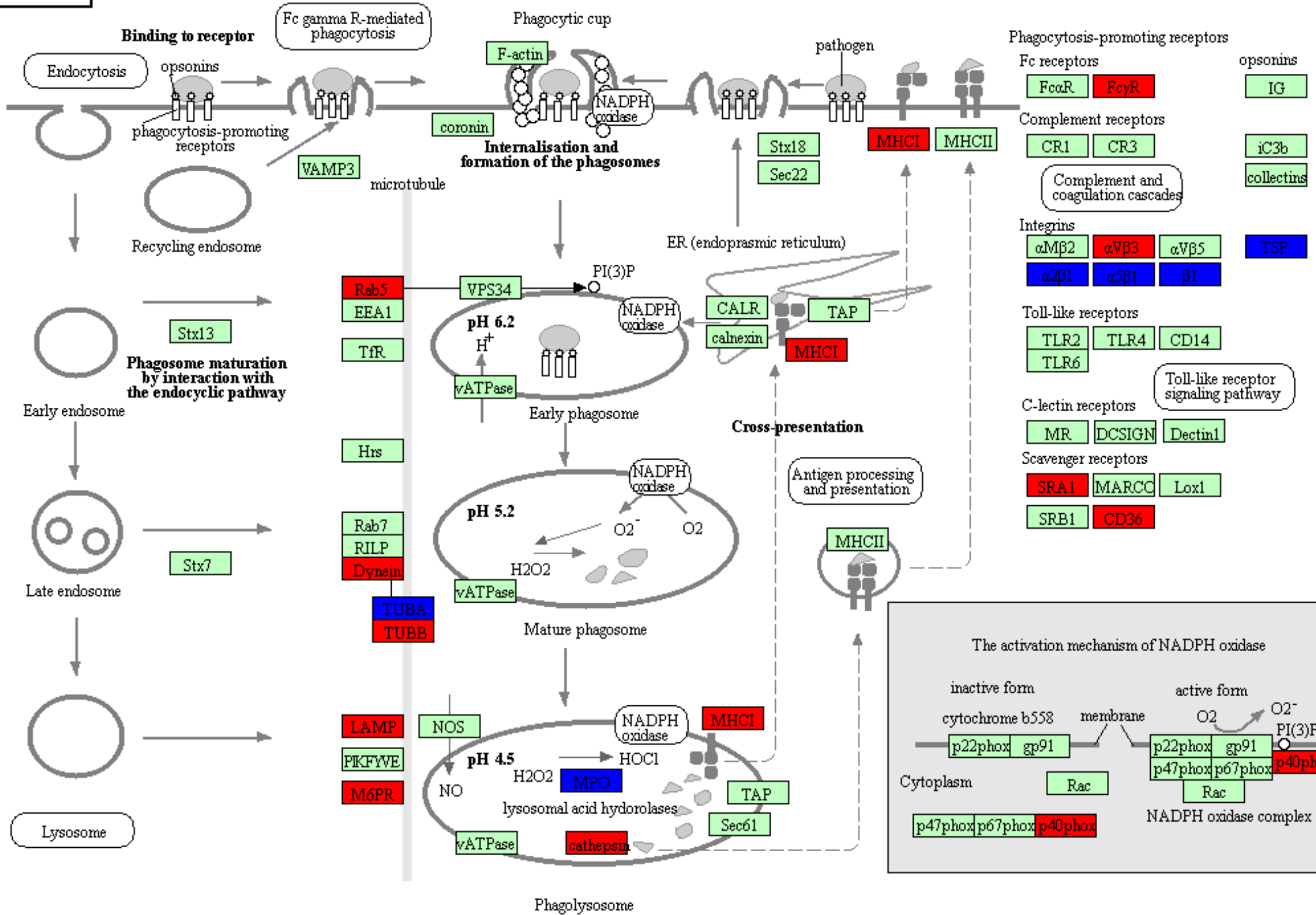
ADRENERGIC SIGNALING IN CARDIOMYOCYTES



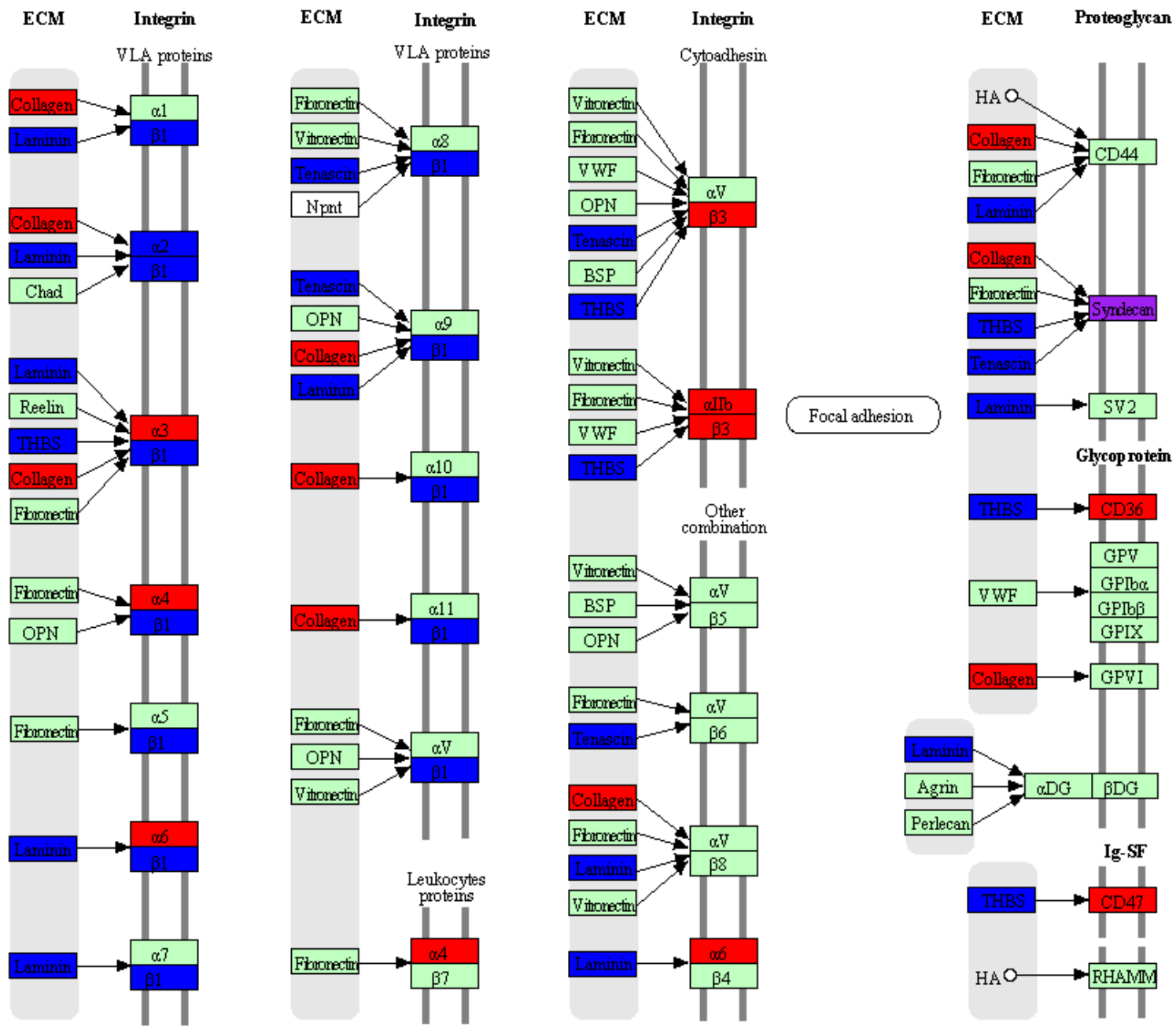
PHAGOSOME

Conventional phagocytosis

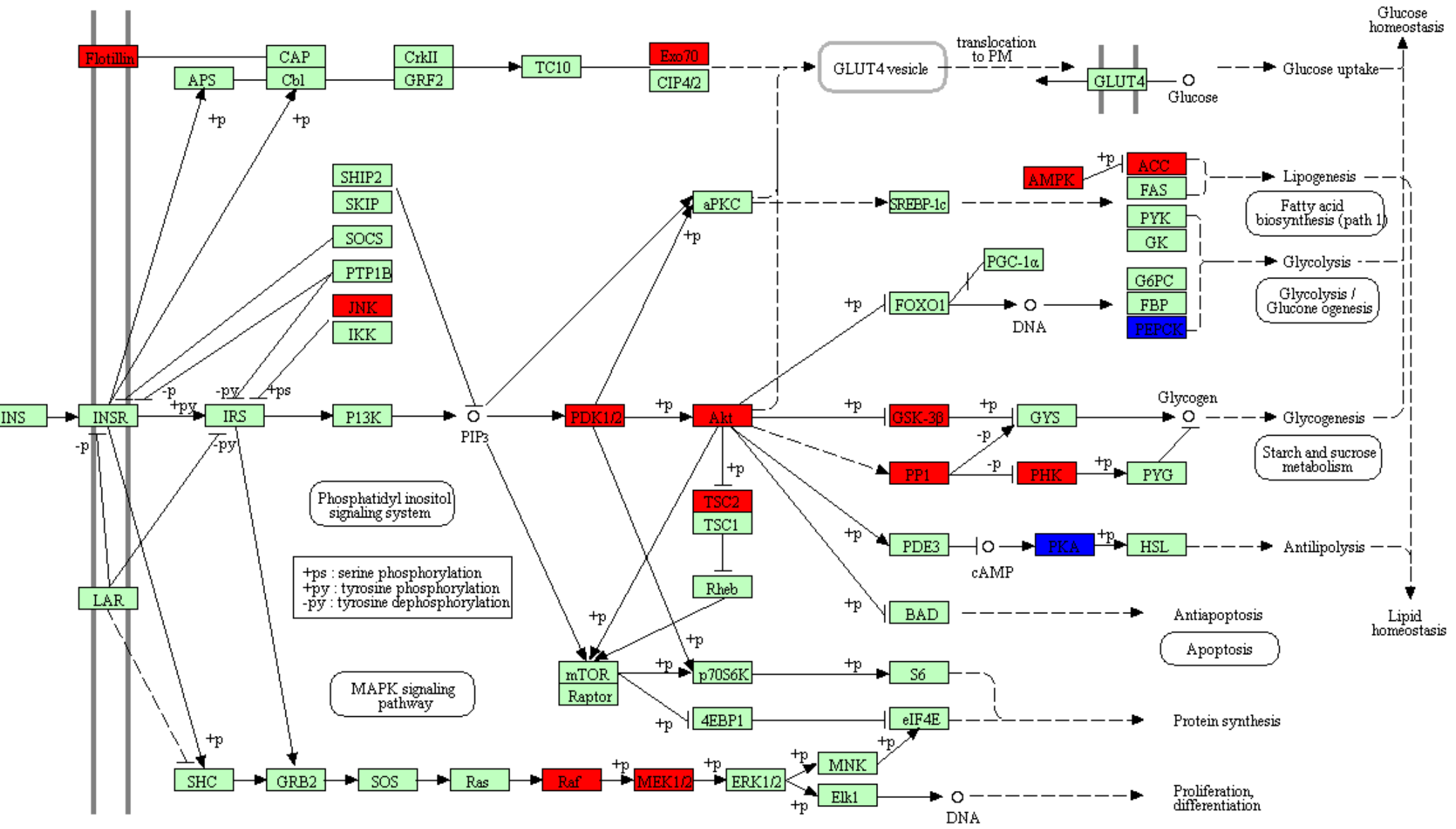
ER-mediated phagocytosis



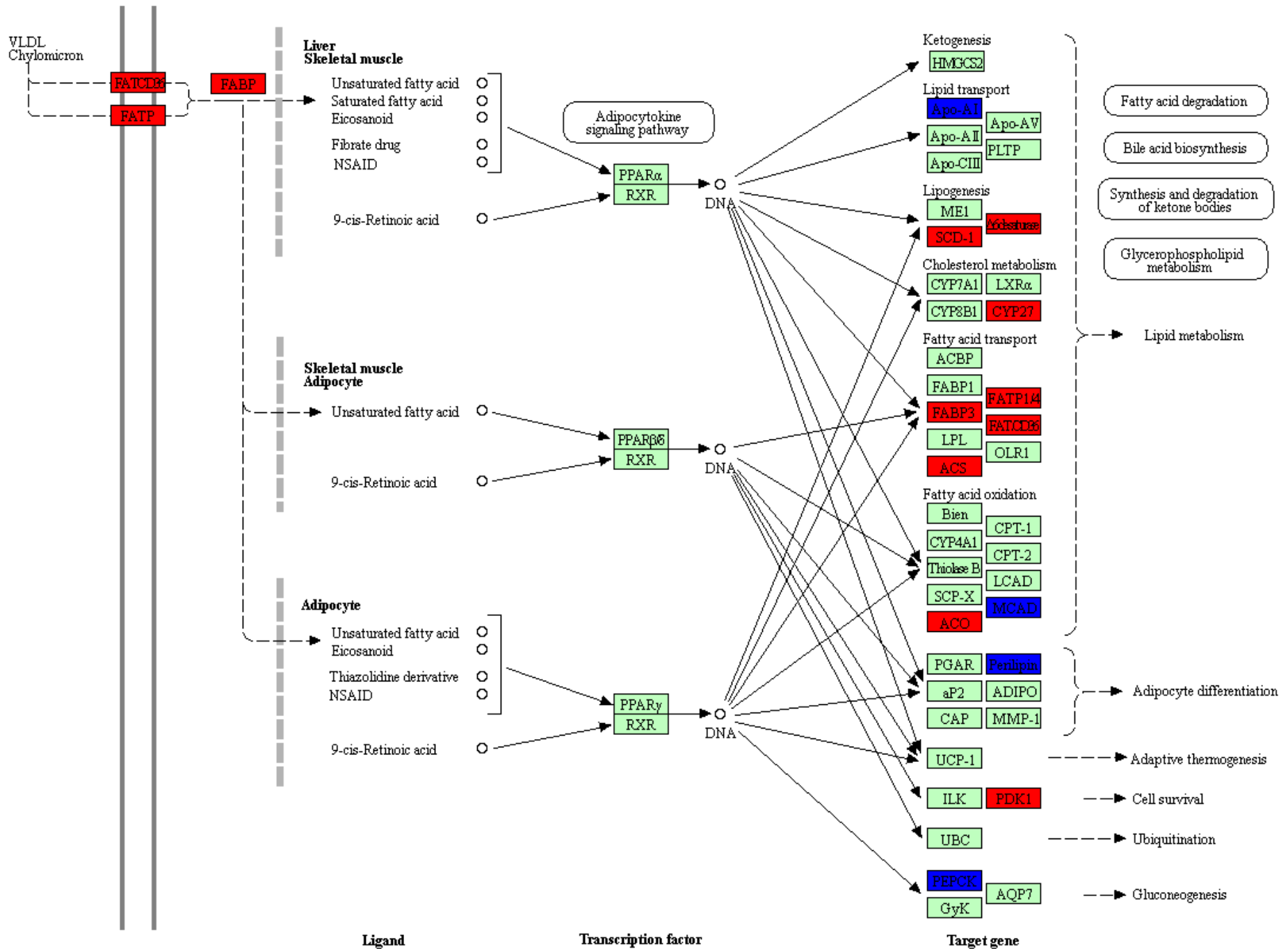
ECM-RECEPTOR INTERACTION



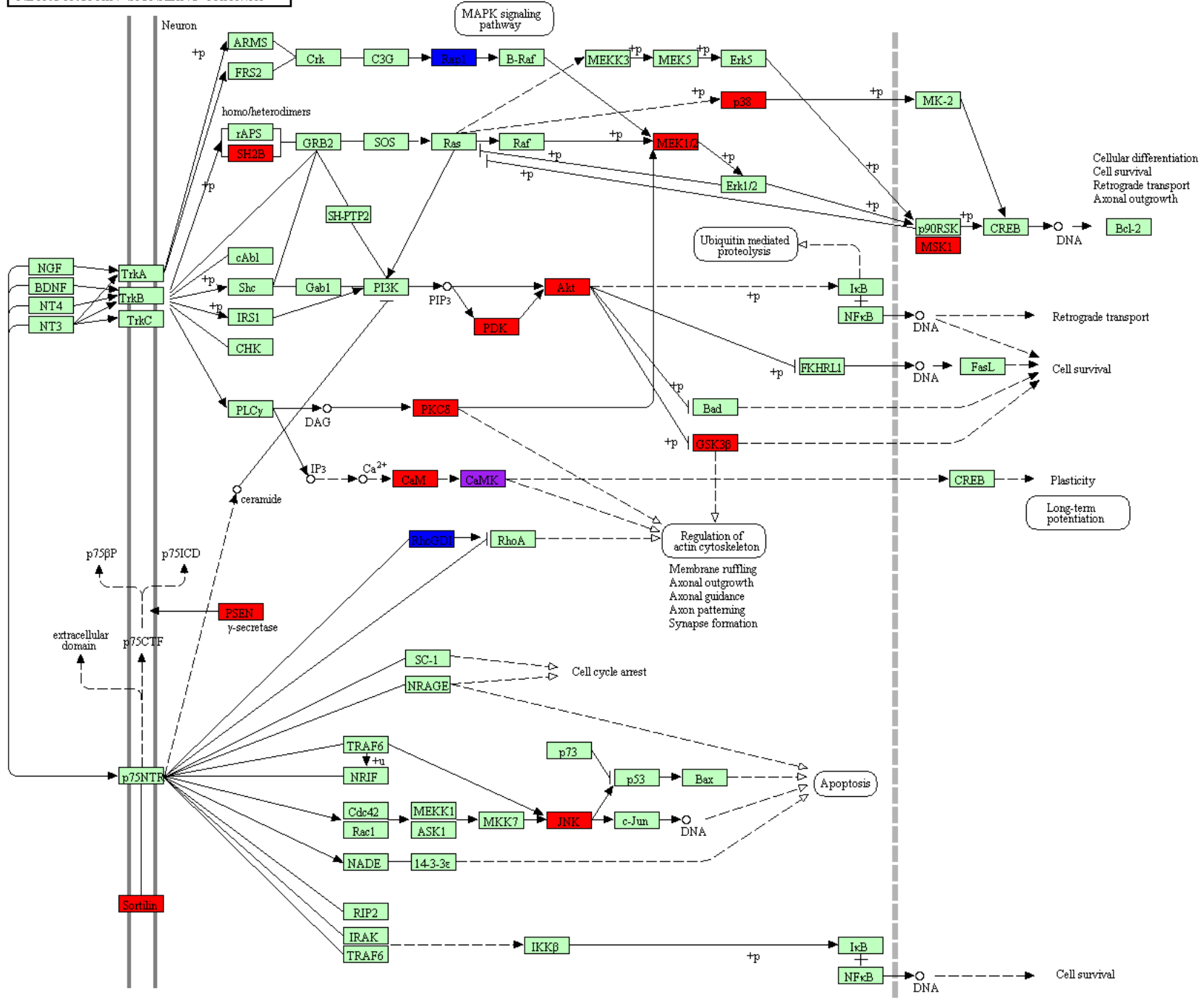
INSULIN SIGNALING PATHWAY



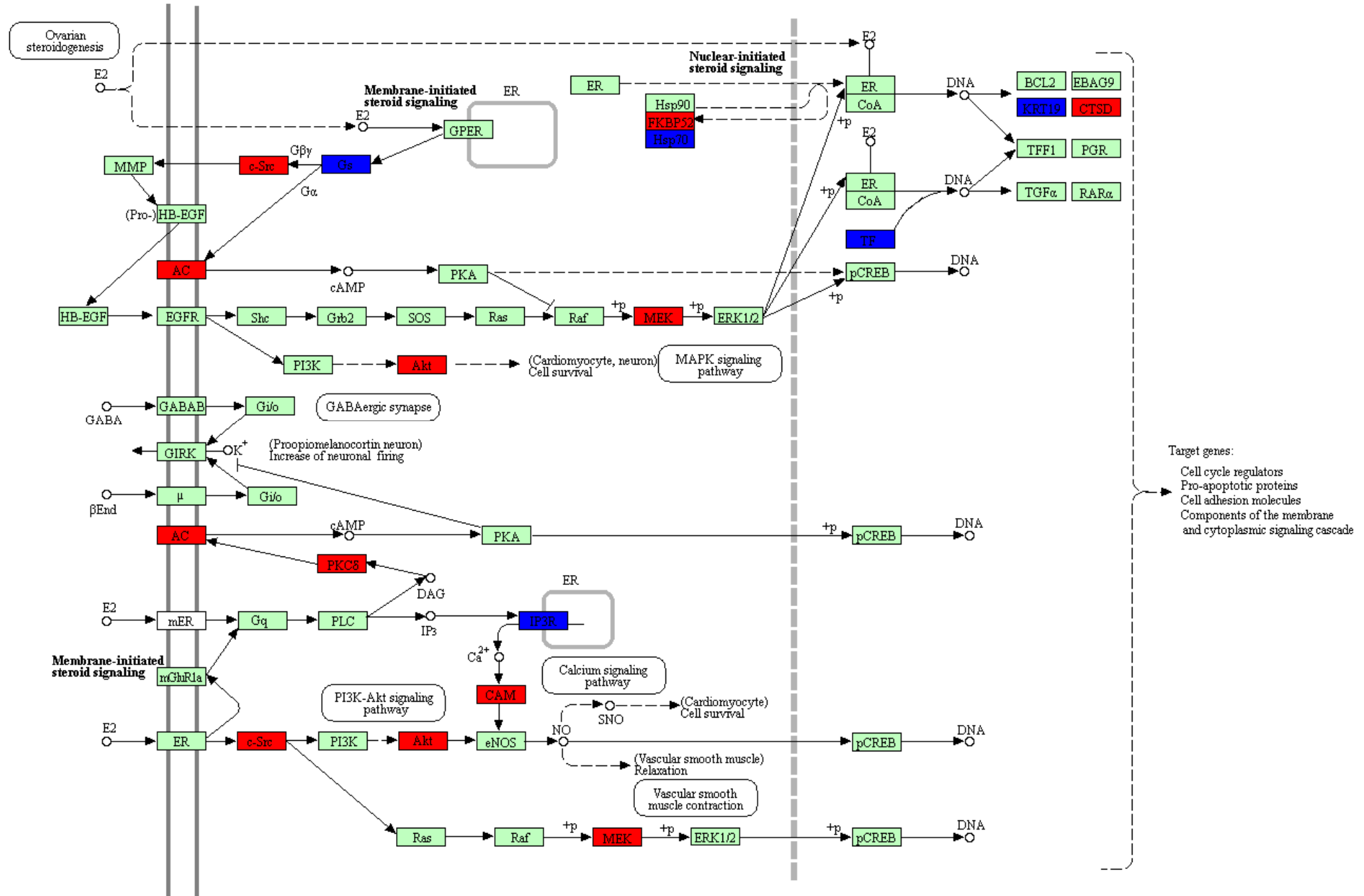
PPAR SIGNALING PATHWAY



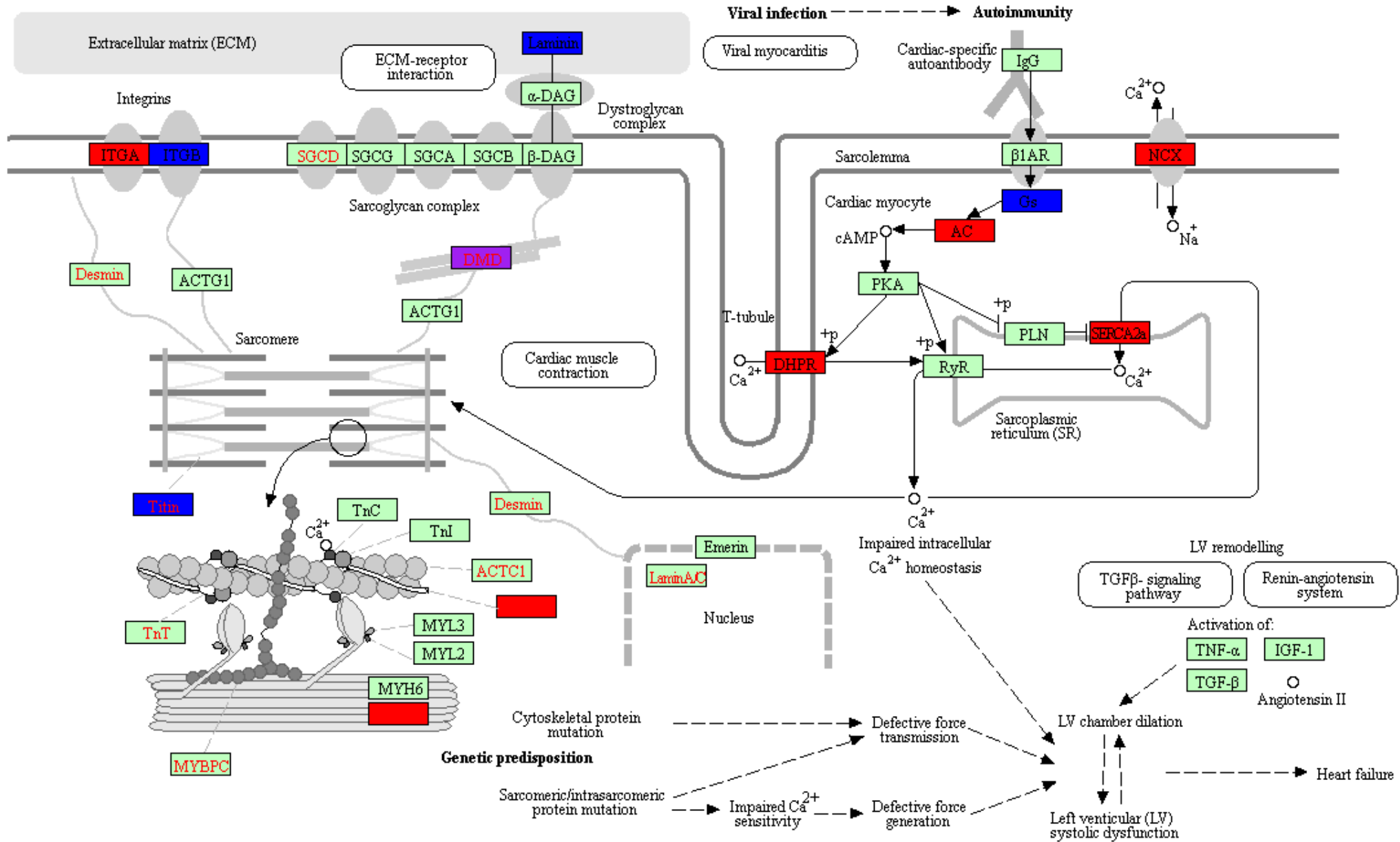
NEUROTROPHIN SIGNALING PATHWAY



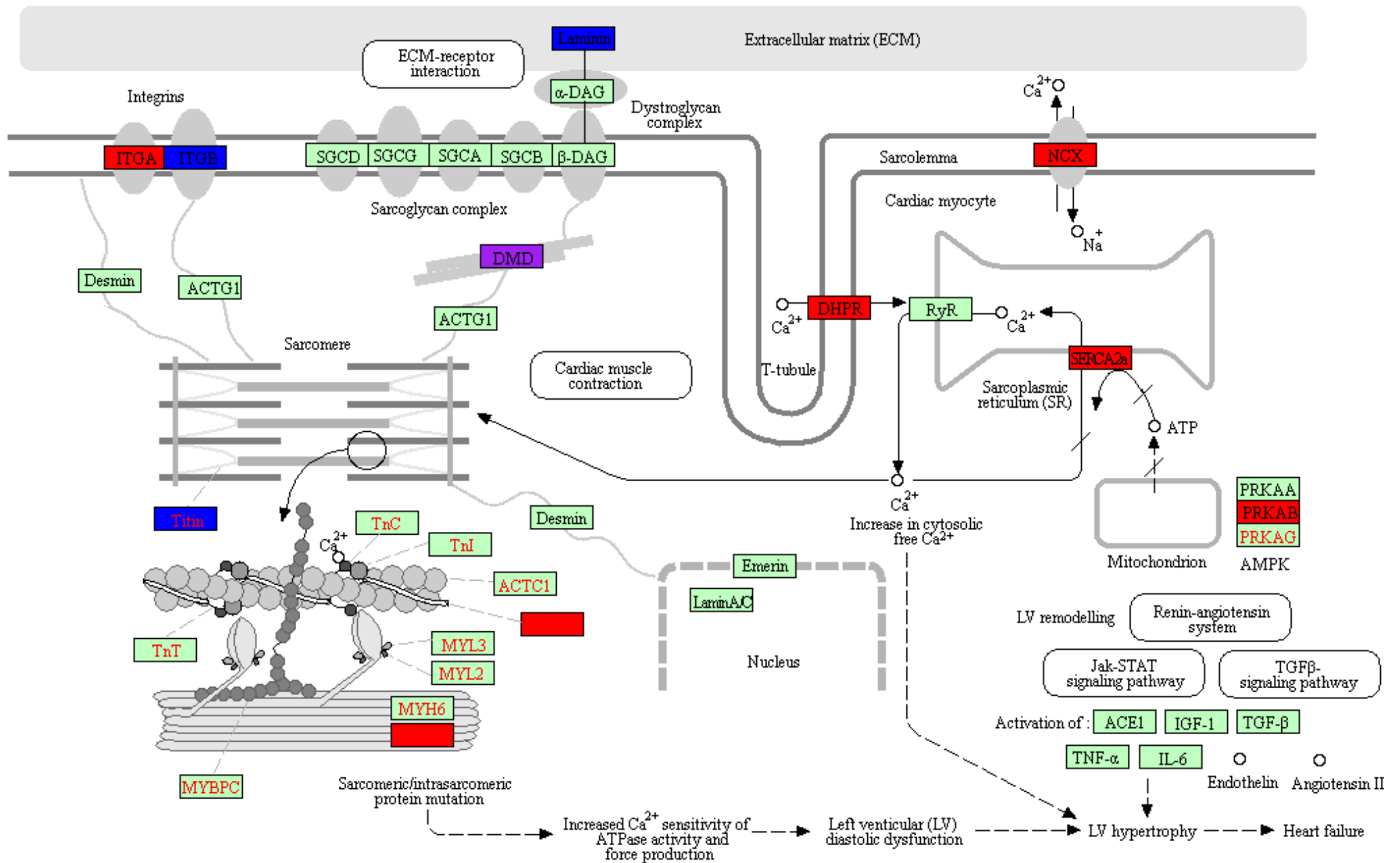
ESTROGEN SIGNALING PATHWAY



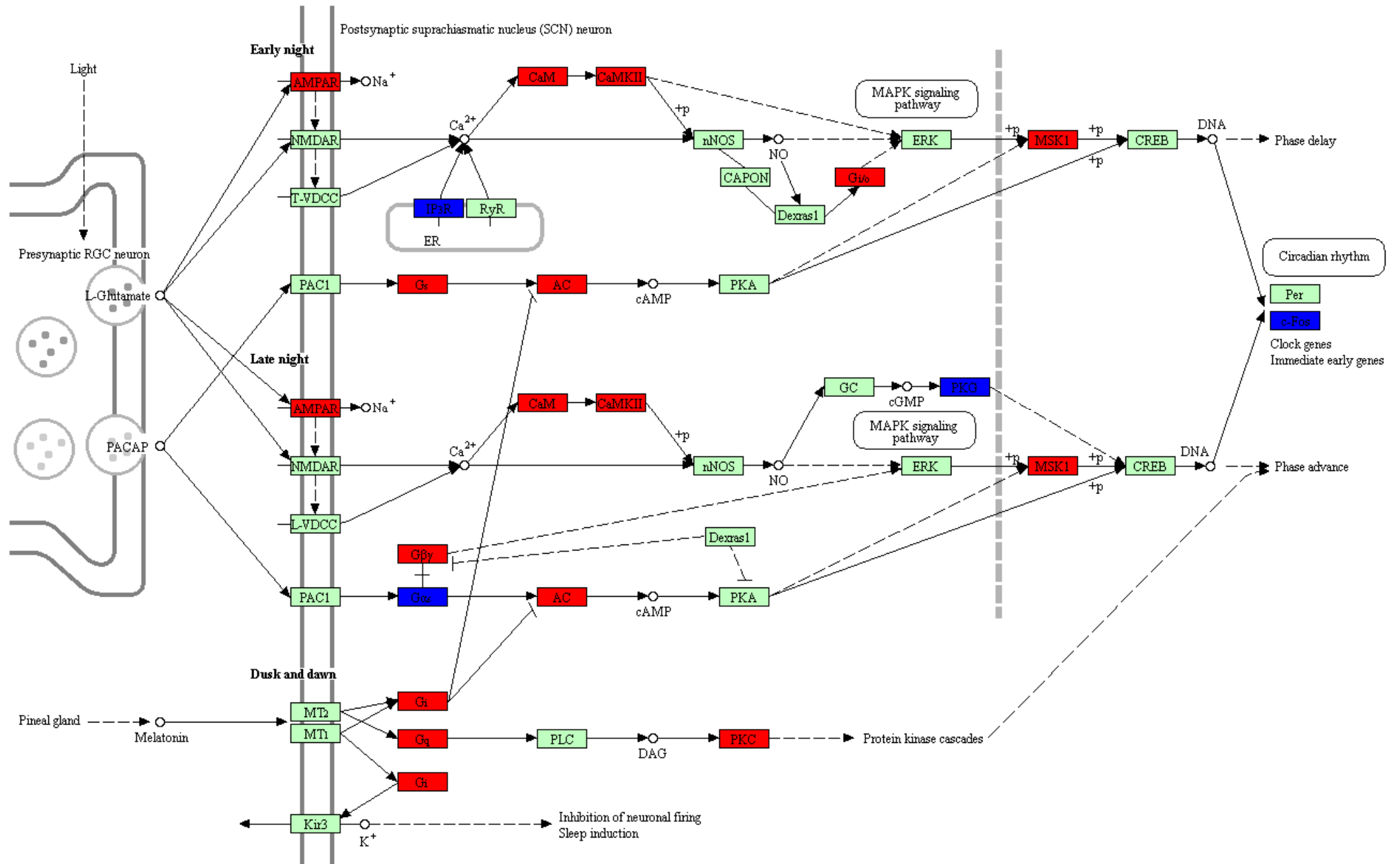
DILATED CARDIOMYOPATHY (DCM)



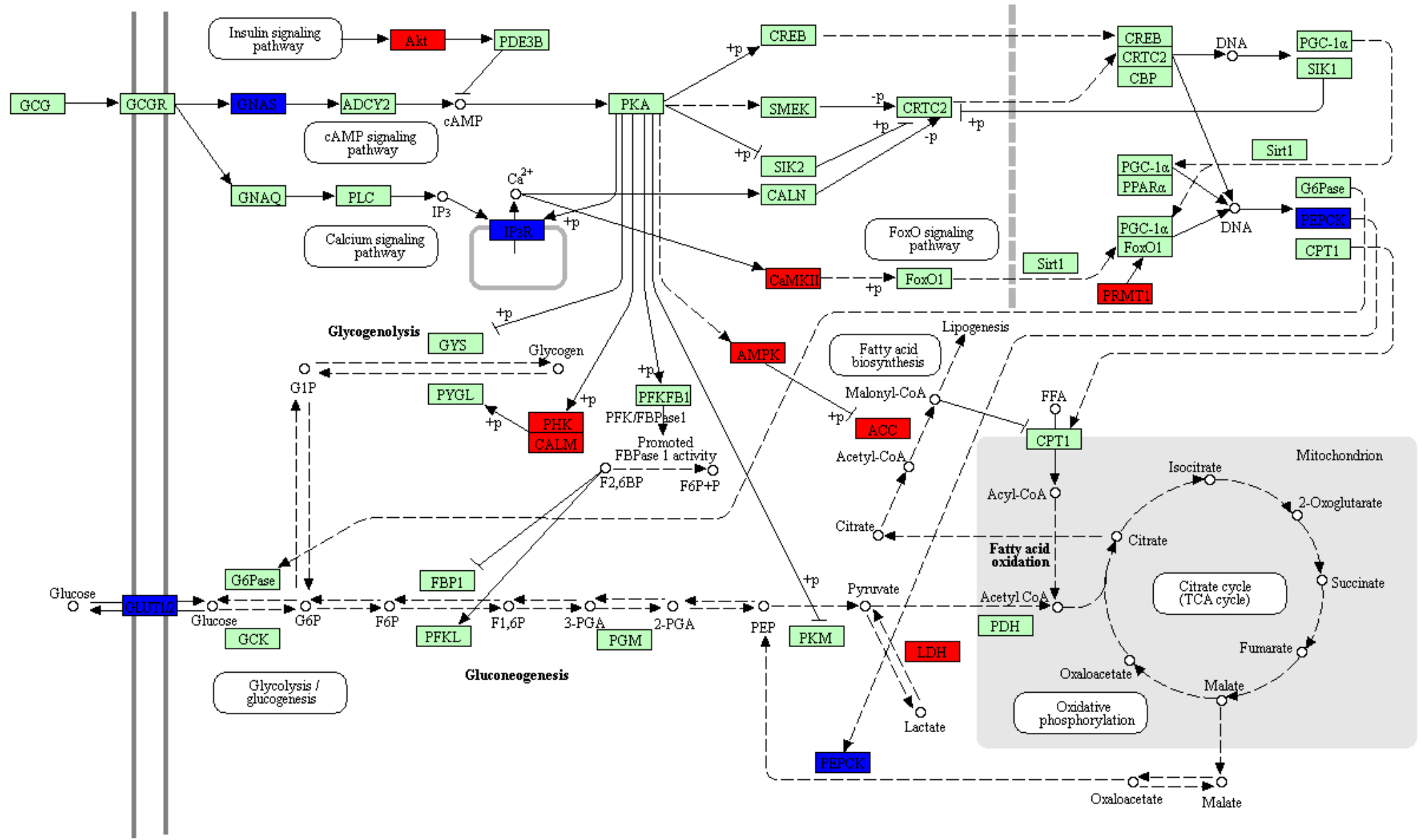
HYPERTROPHIC CARDIOMYOPATHY (HCM)



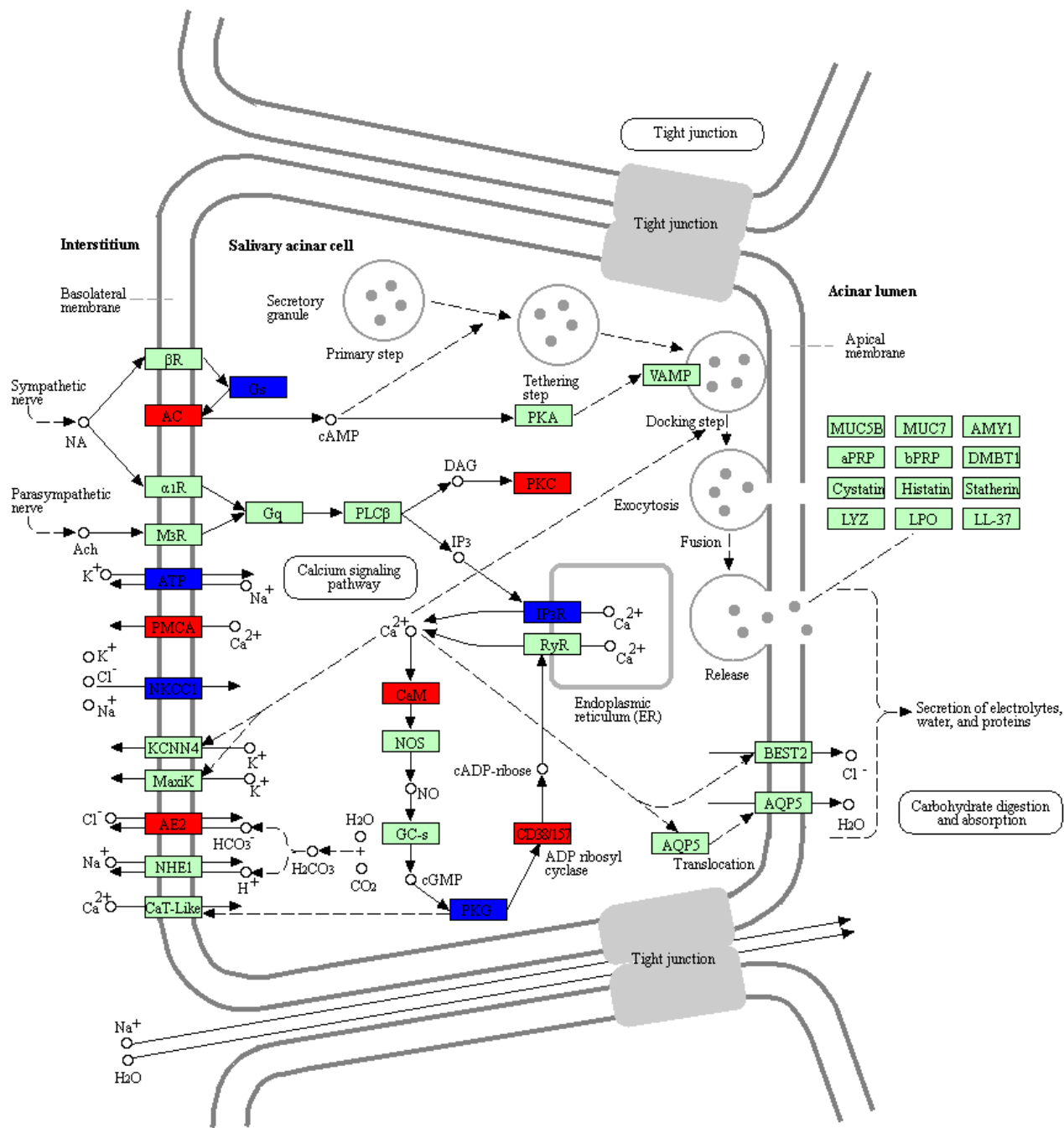
CIRCADIAN ENTRAINMENT



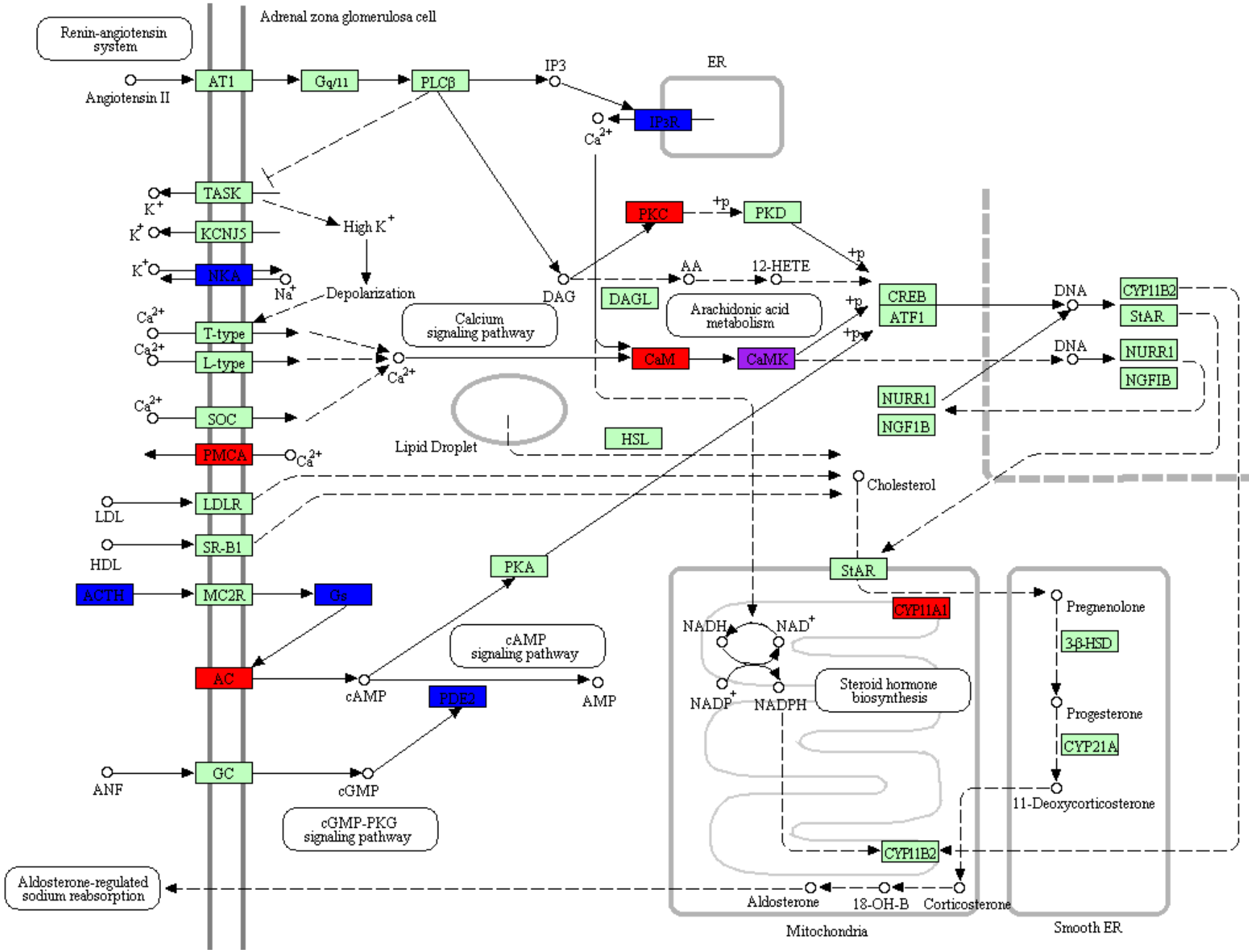
GLUCAGON SIGNALING PATHWAY



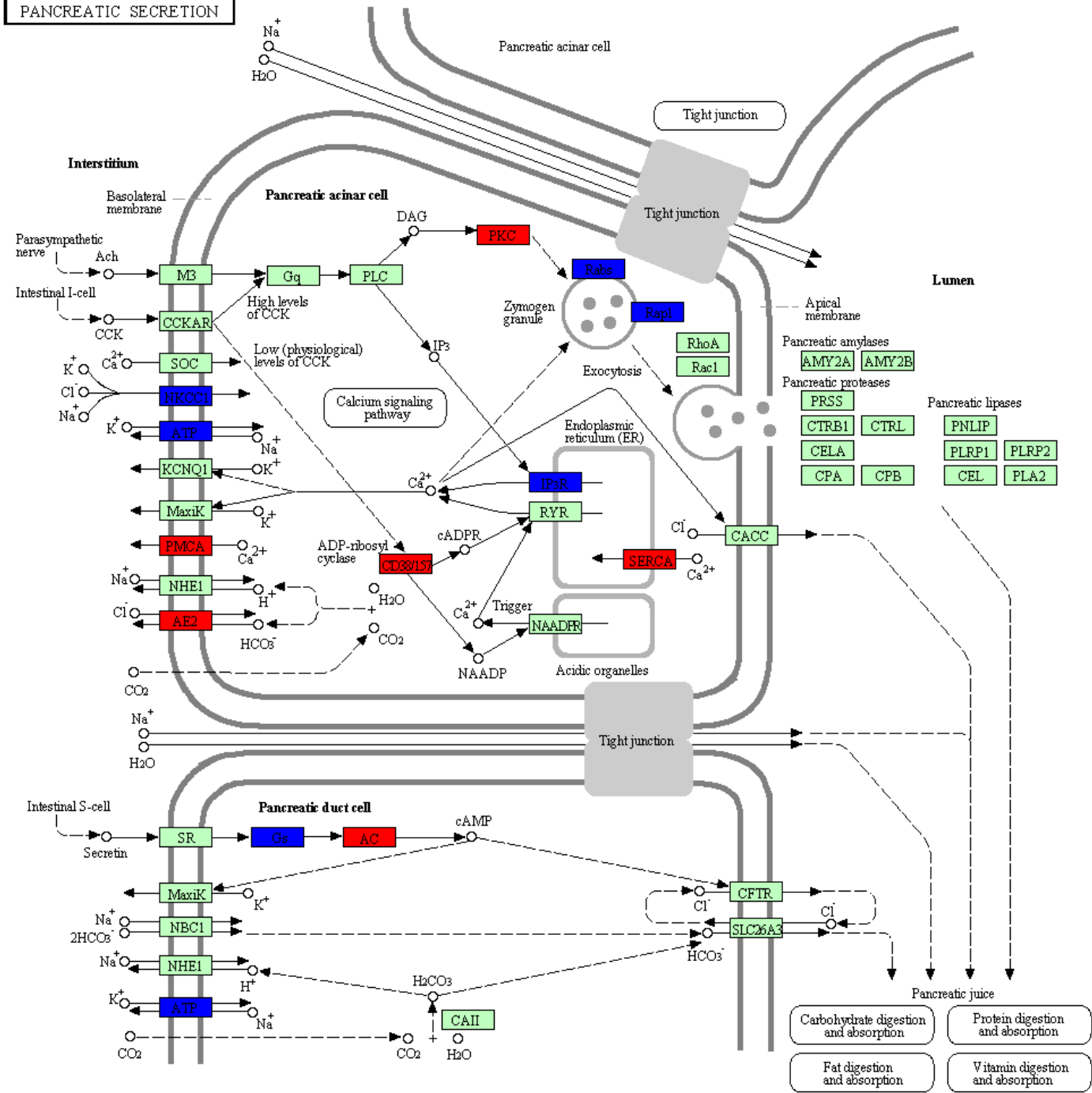
SALIVARY SECRETION



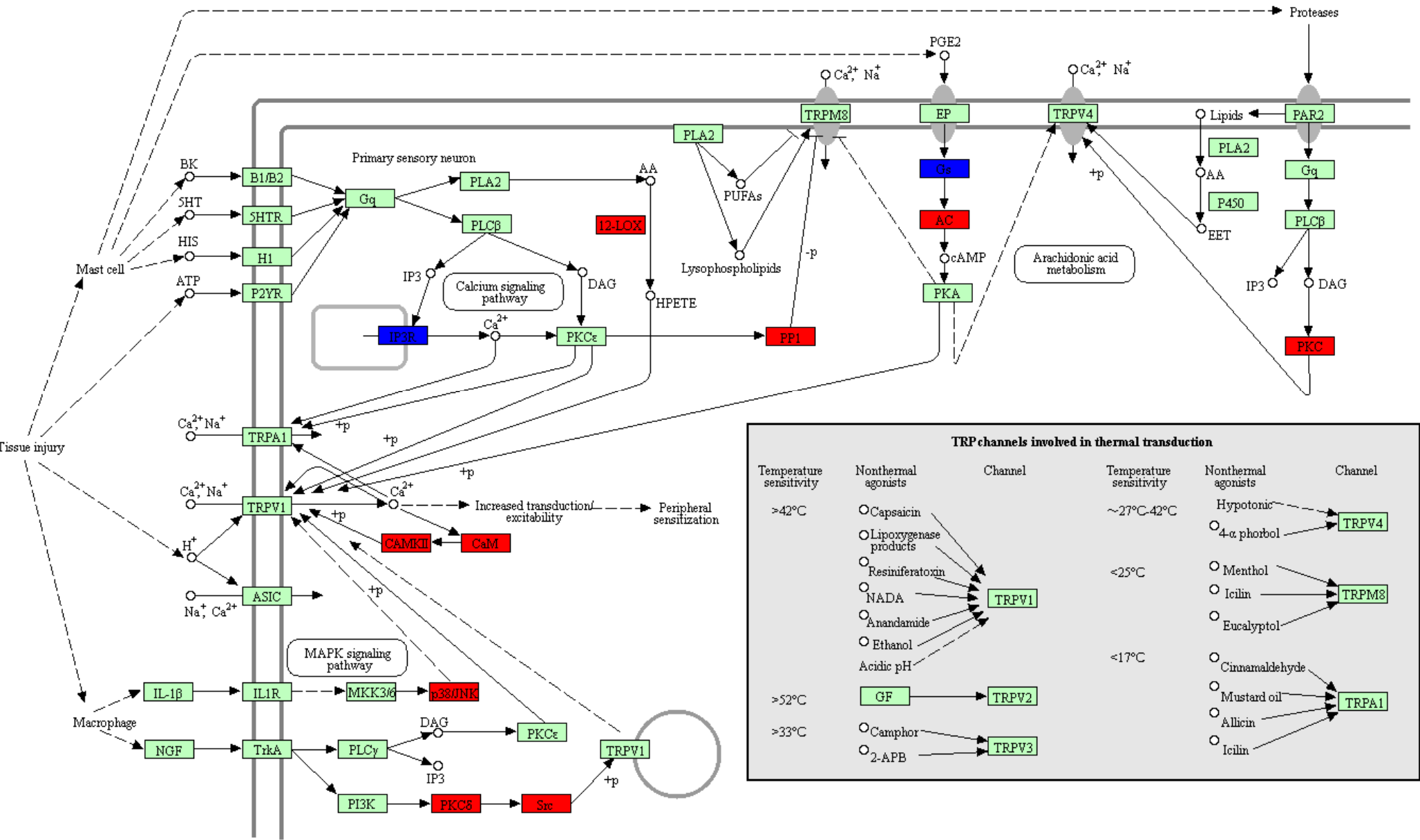
ALDOSTERONE SYNTHESIS AND SECRETION



PANCREATIC SECRETION



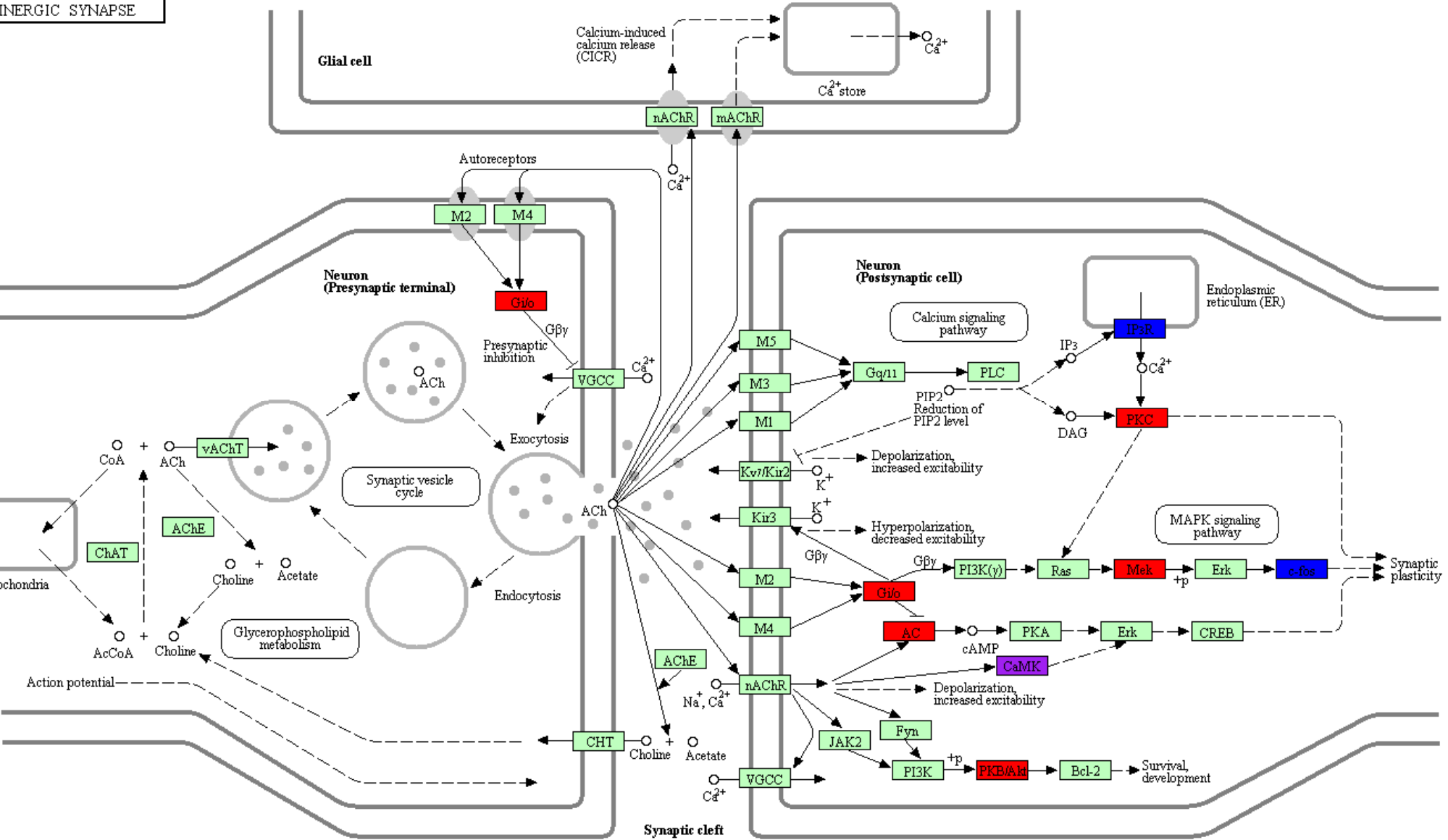
INFLAMMATORY MEDIATOR REGULATION OF TRP CHANNELS



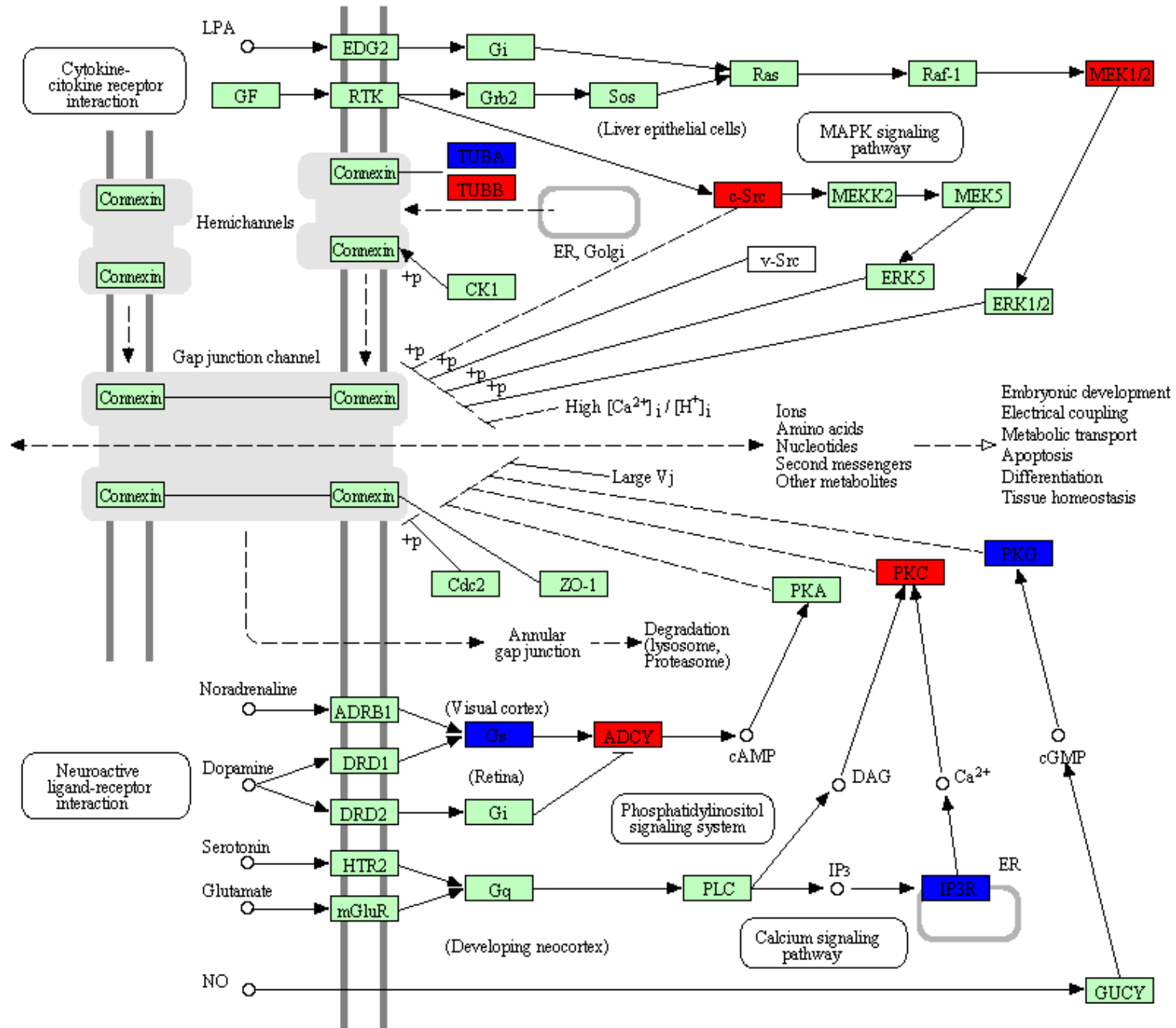
TRP channels involved in thermal transduction

Temperature sensitivity	Nonthermal agonists	Channel	Temperature sensitivity	Nonthermal agonists	Channel	
>42°C	○ Capsaicin	TRPV1	~27°C-42°C	○ Hypotonic	TRPV4	
	○ Lipoxygenase products			○ 4-α phorbol		
	○ Resiniferatoxin					
	○ NADA			<25°C	○ Menthol	TRPM8
	○ Anandamide				○ Icilin	
	○ Ethanol				○ Eucalyptol	
	○ Acidic pH		<17°C	○ Cinnamaldehyde	TRPA1	
>52°C	○ GF	TRPV2		○ Mustard oil		
>33°C	○ Camphor	TRPV3		○ Allicin		
	○ 2-APB			○ Icilin		

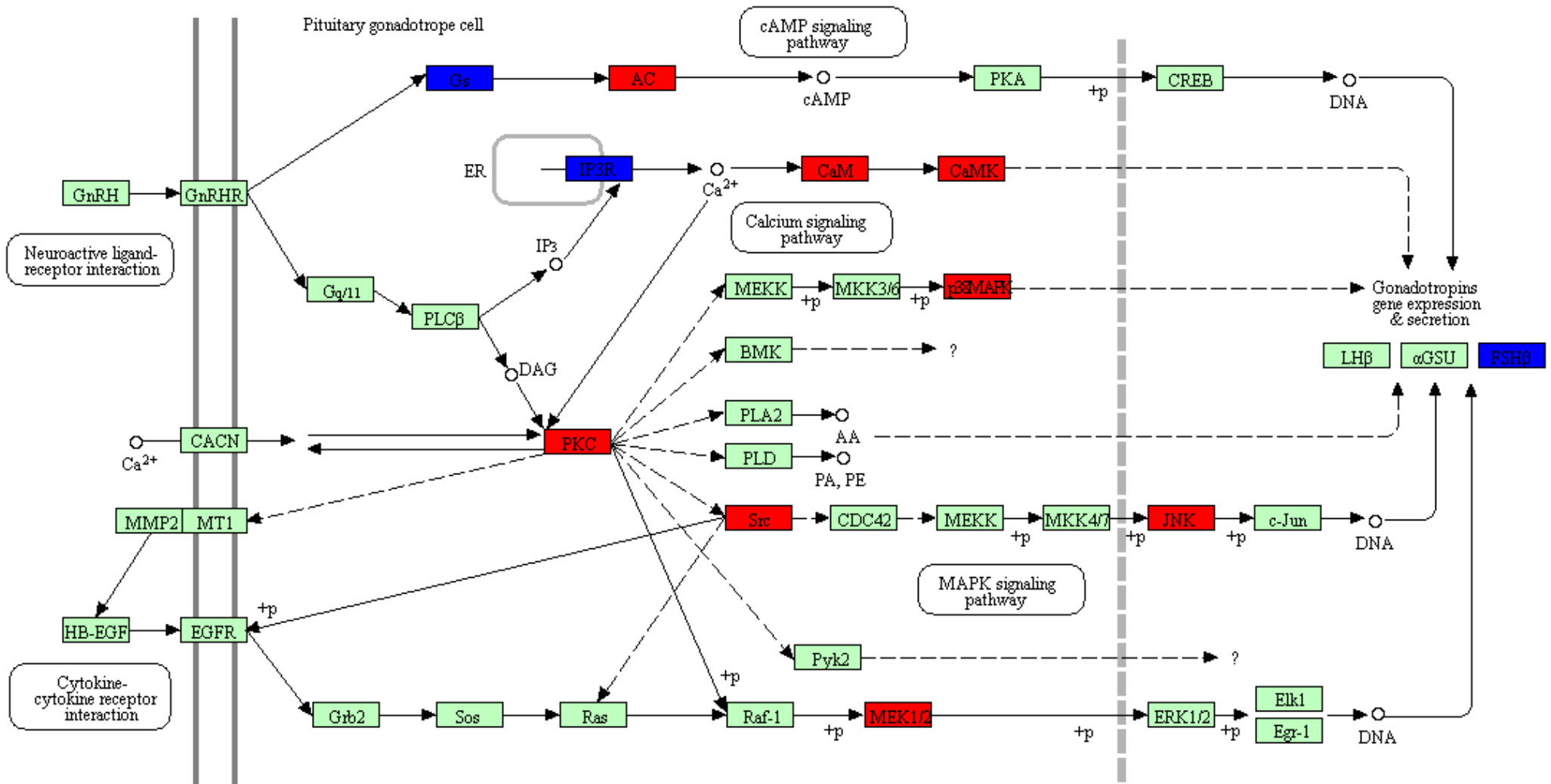
CHolinergic SYNAPSE



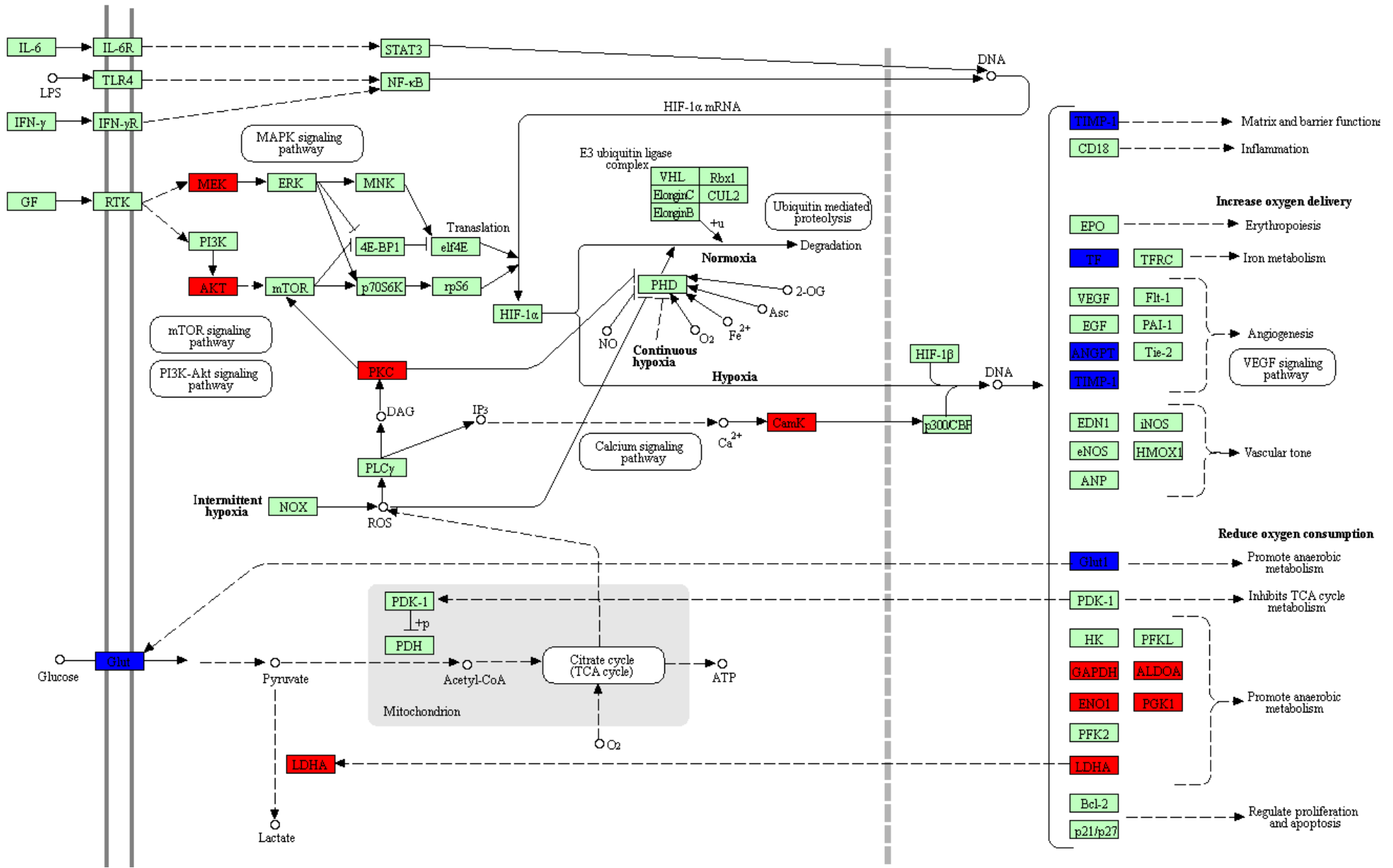
GAP JUNCTION



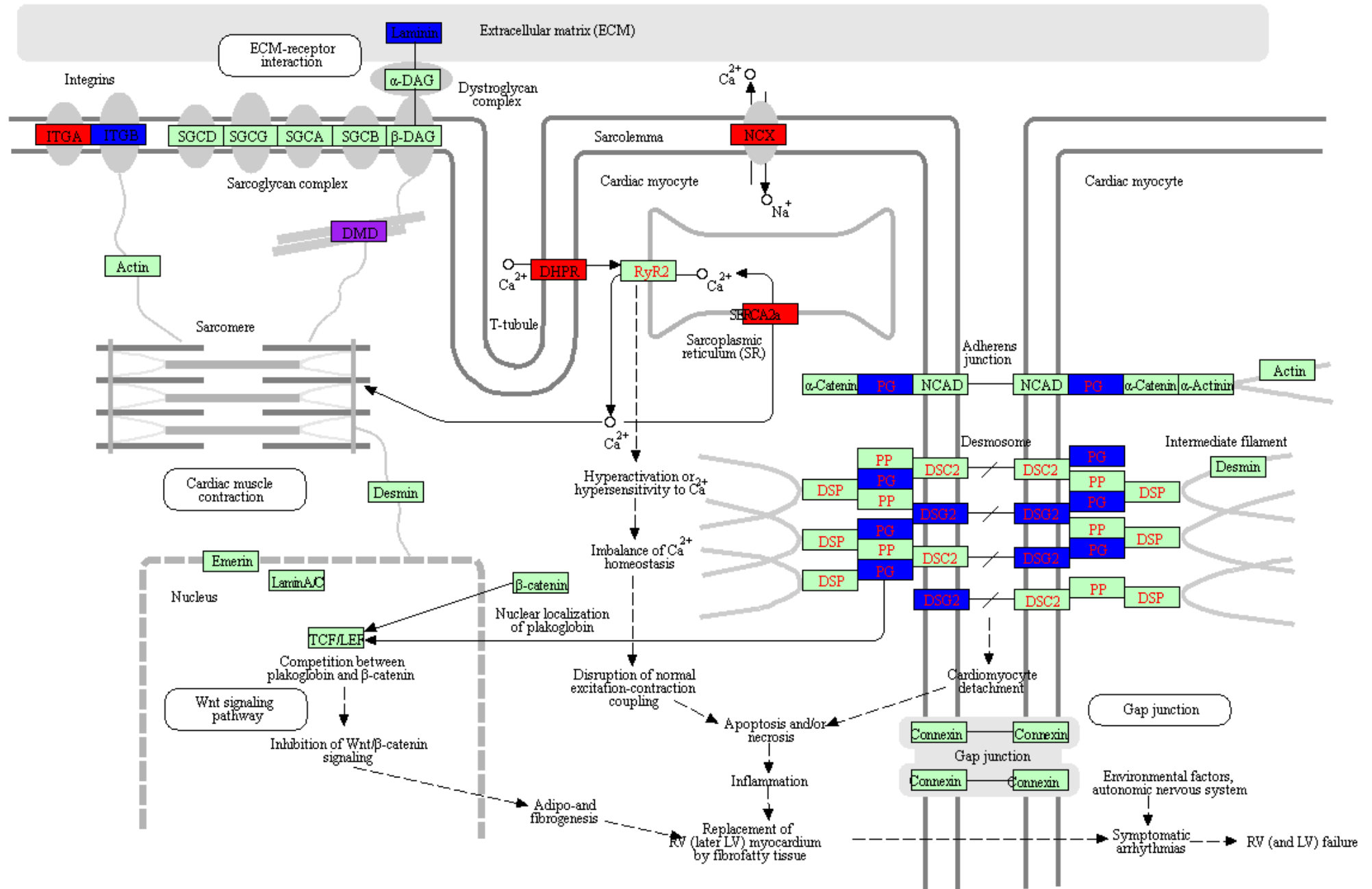
GnRH SIGNALING PATHWAY



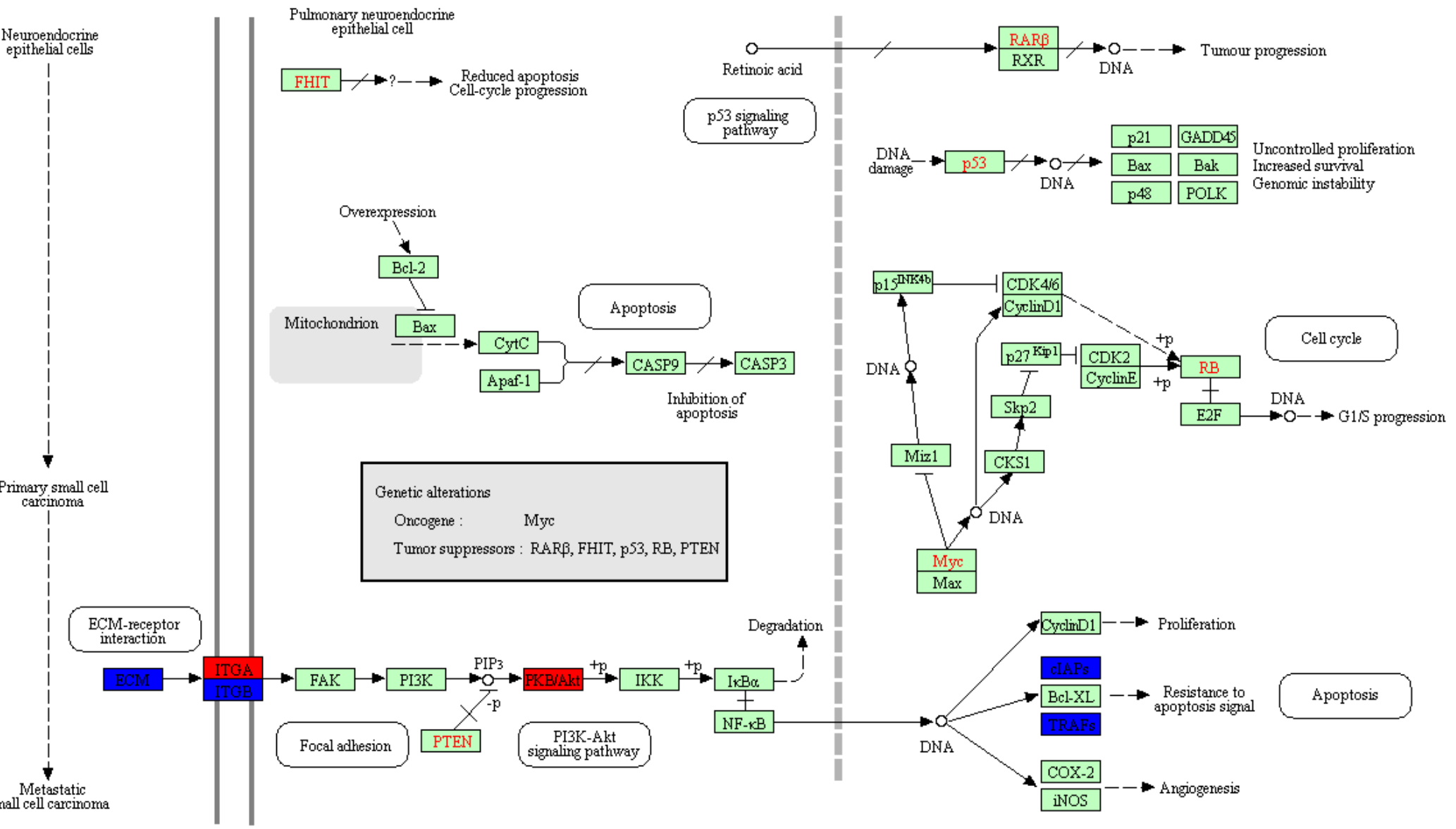
HIF-1 SIGNALING PATHWAY



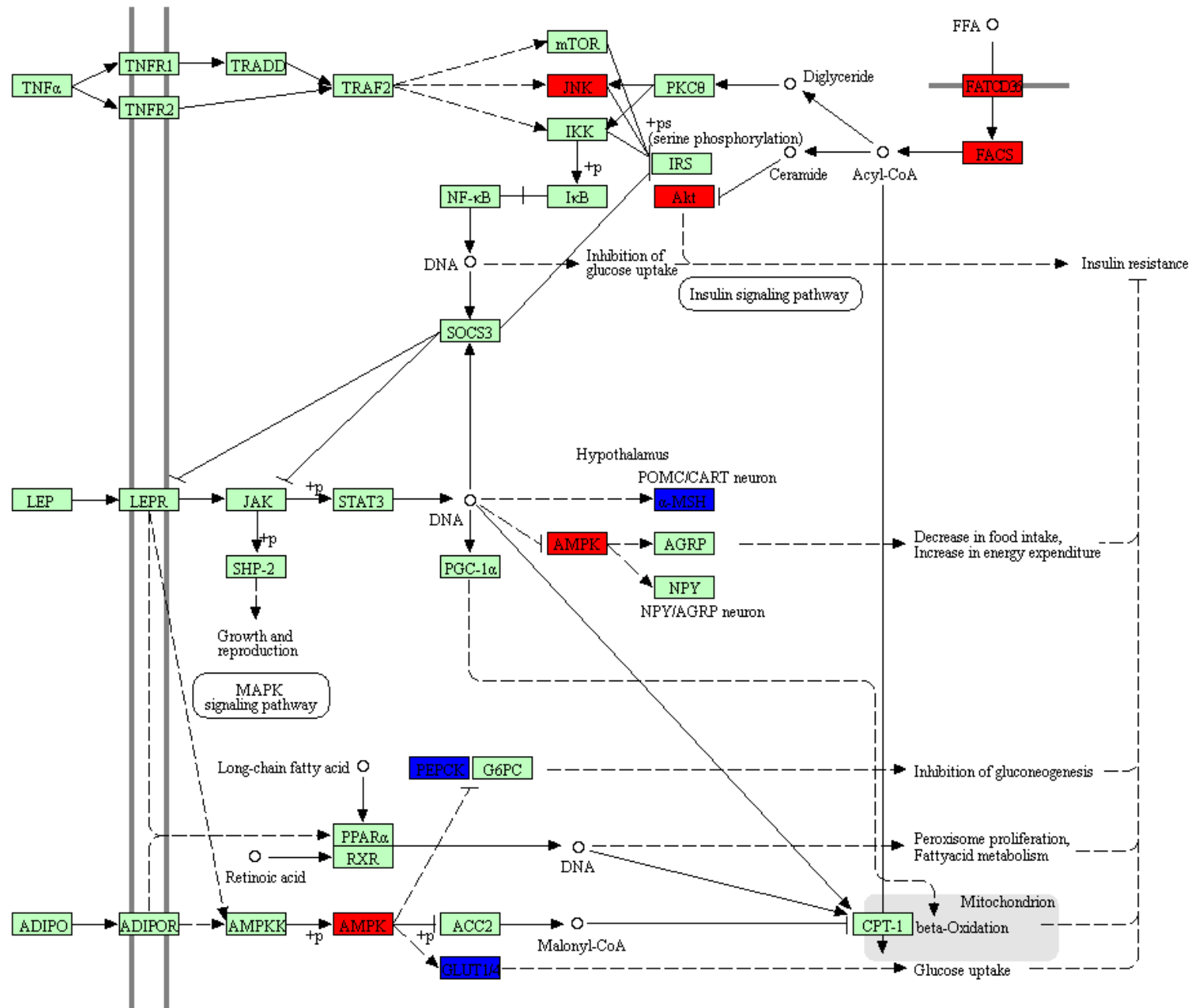
ARRHYTHMOGENIC RIGHT VENTRICULAR CARDIOMYOPATHY (ARVC)



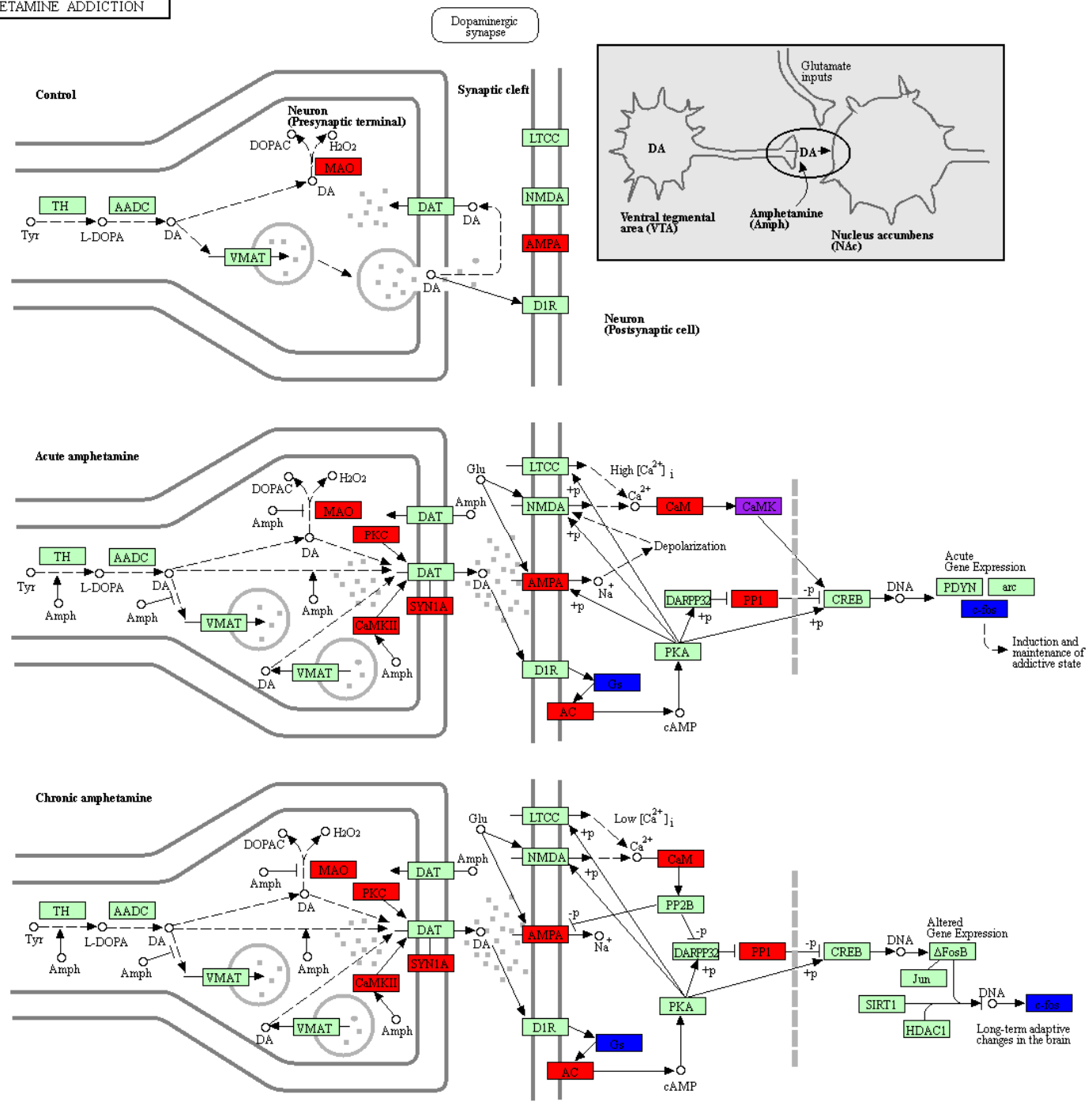
SMALL CELL LUNG CANCER



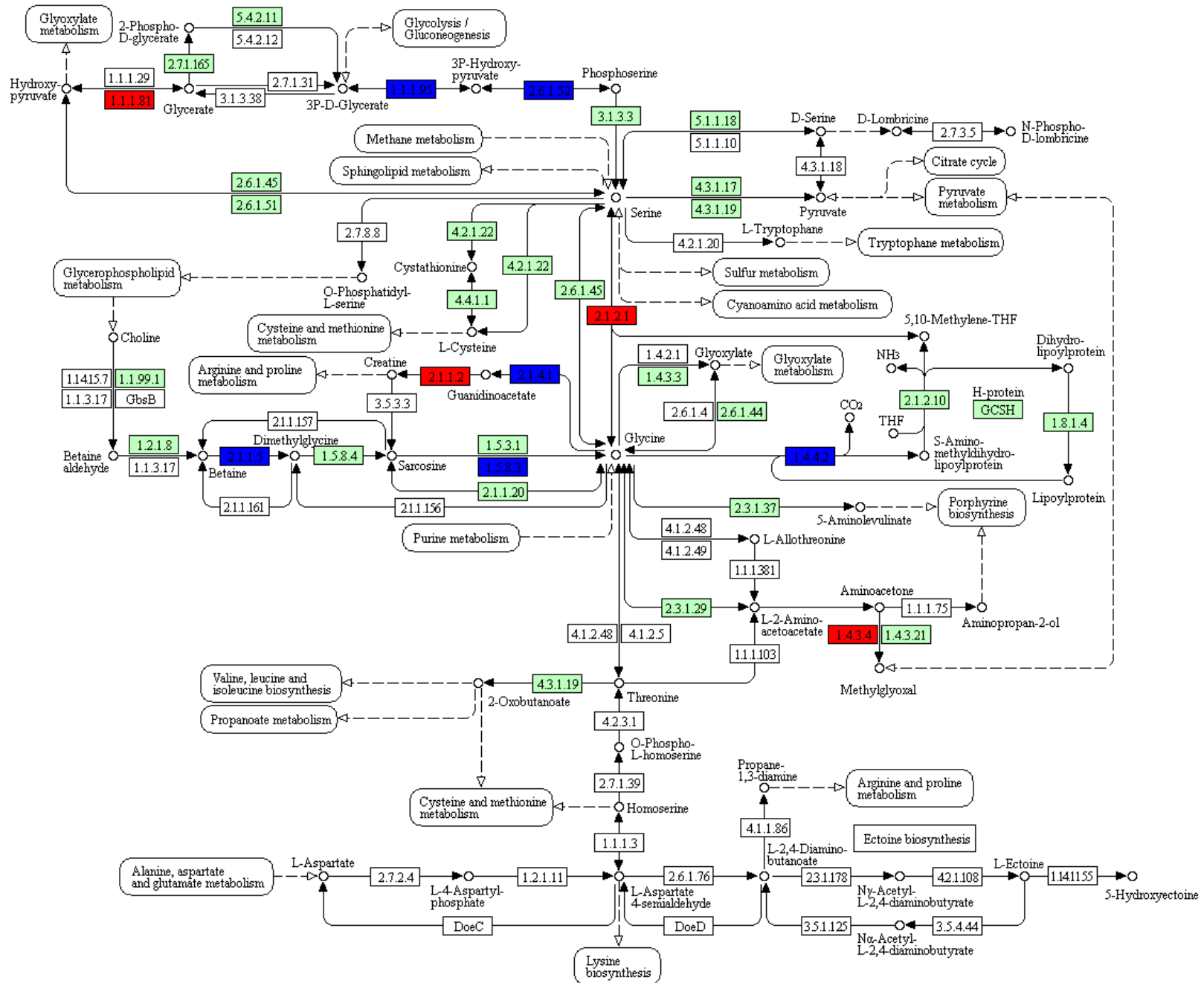
ADIPOCYTOKINE SIGNALING PATHWAY



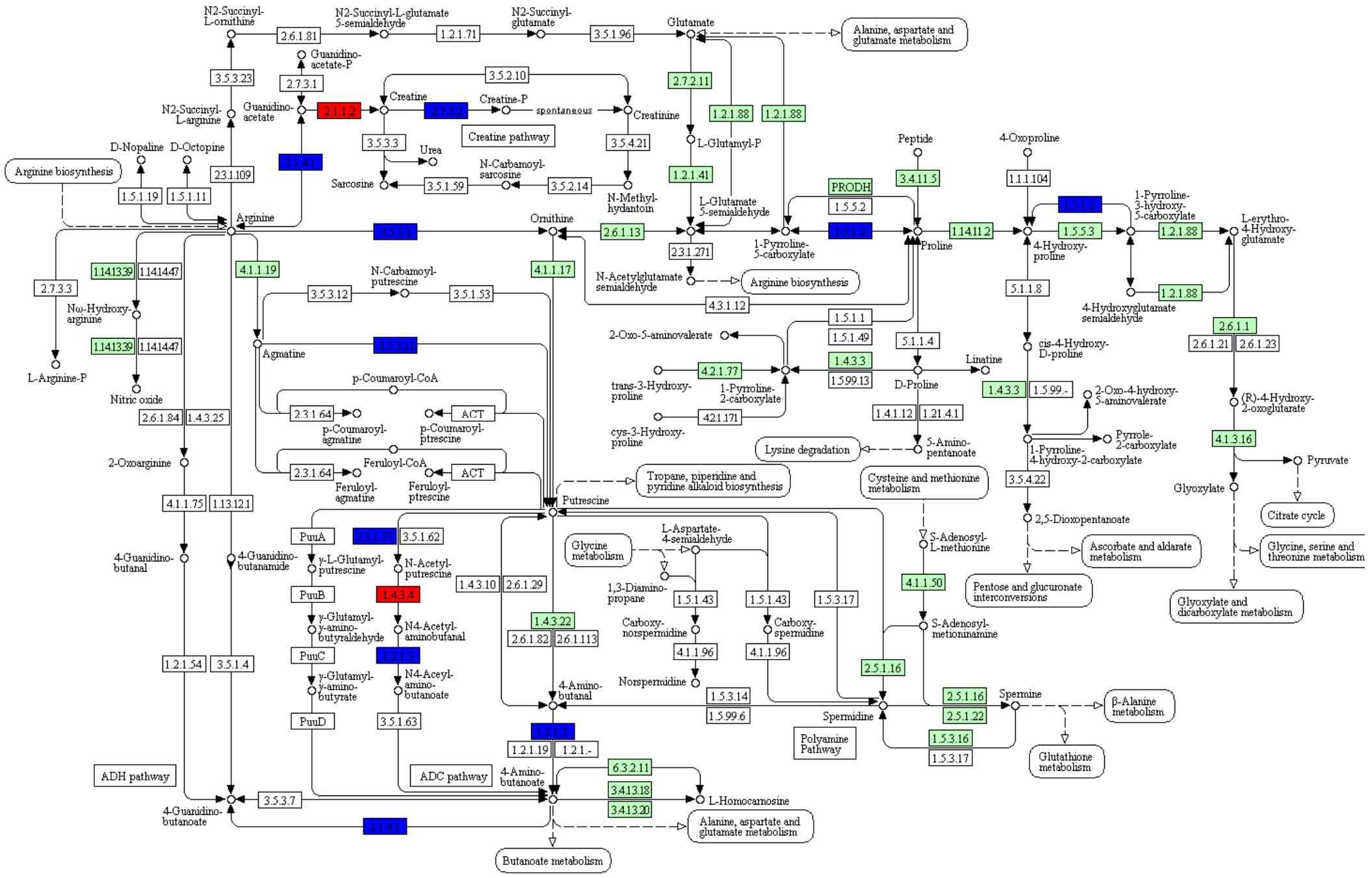
AMPHETAMINE ADDICTION



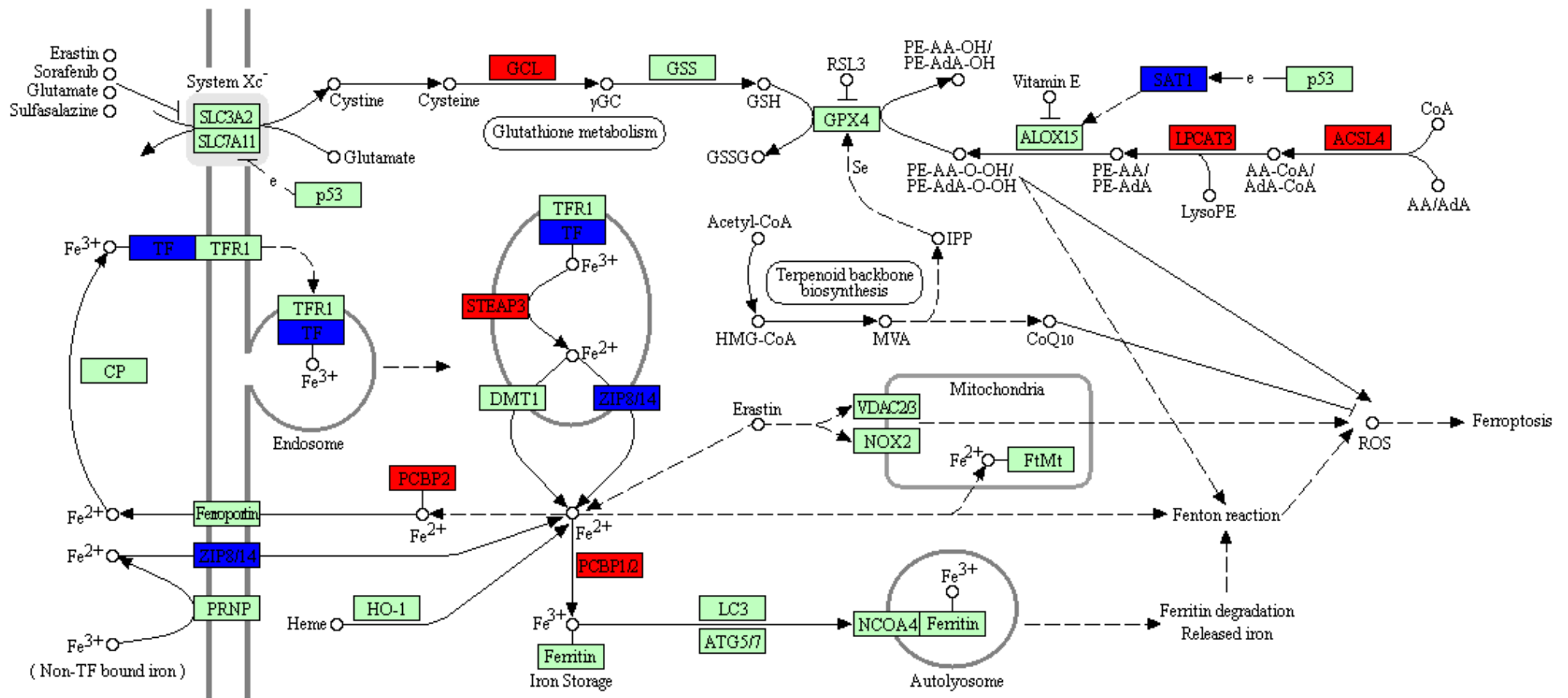
GLYCINE, SERINE AND THREONINE METABOLISM



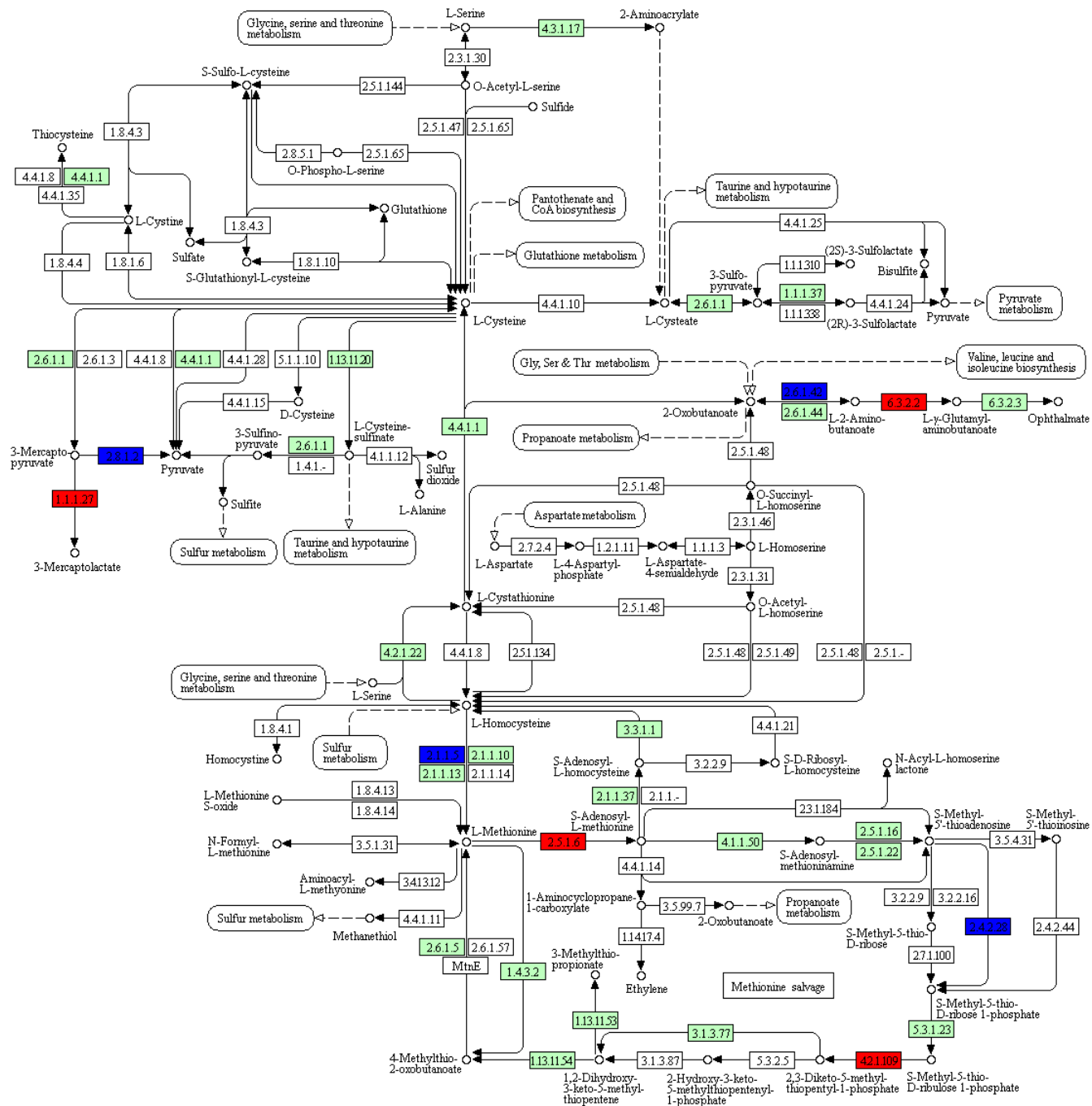
ARGININE AND PROLINE METABOLISM



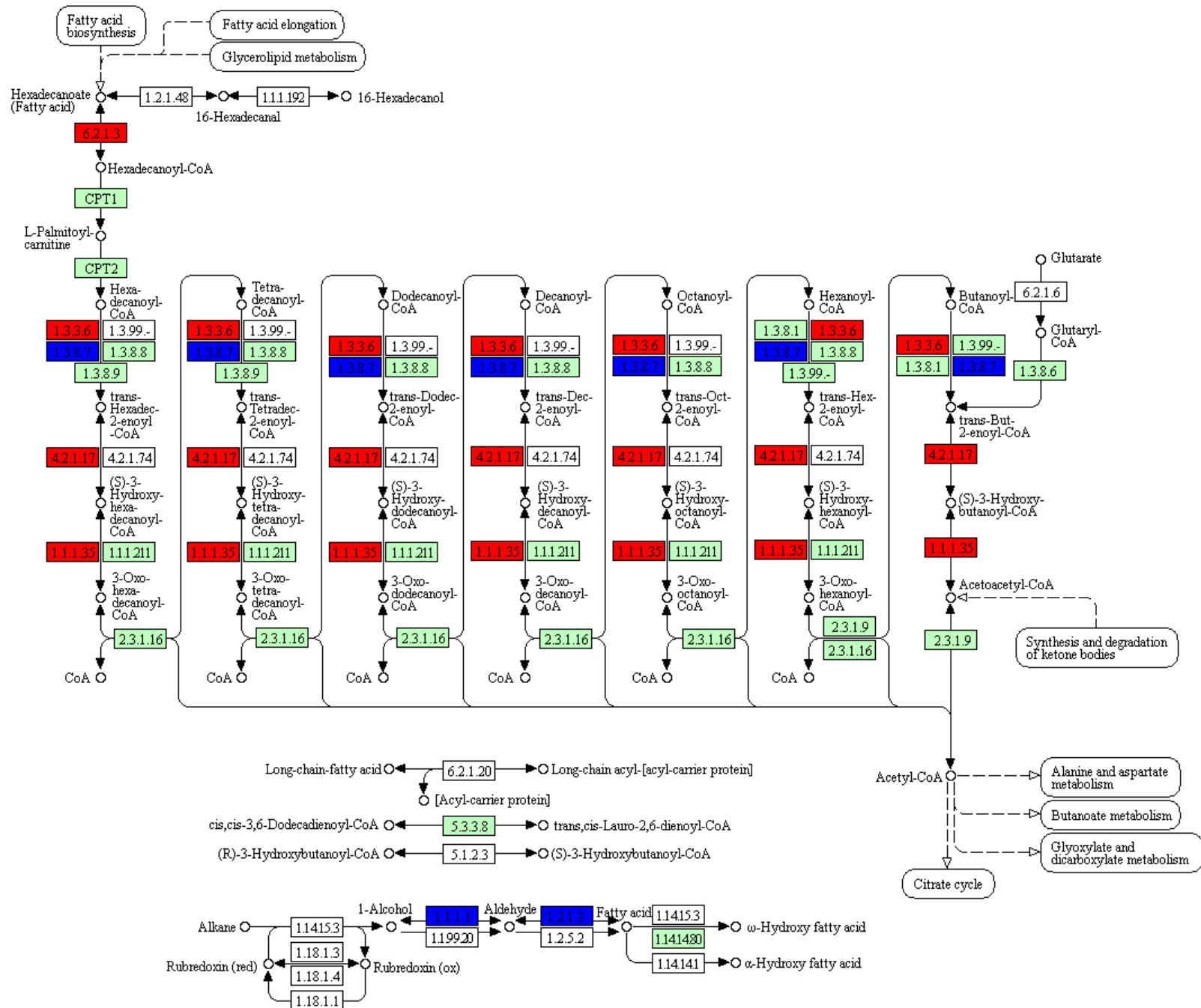
FERROPTOSIS



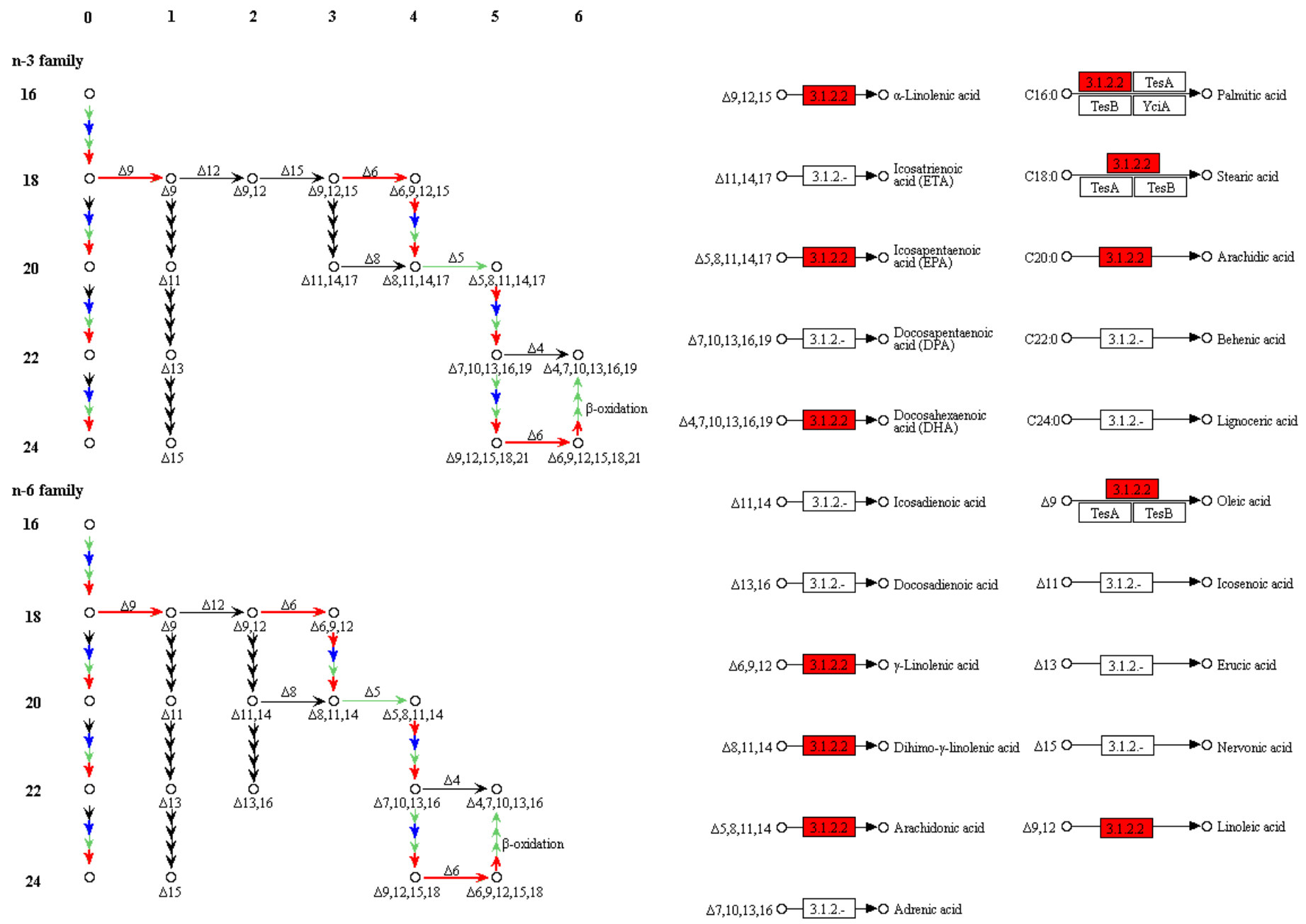
CYSTEINE AND METHIONINE METABOLISM



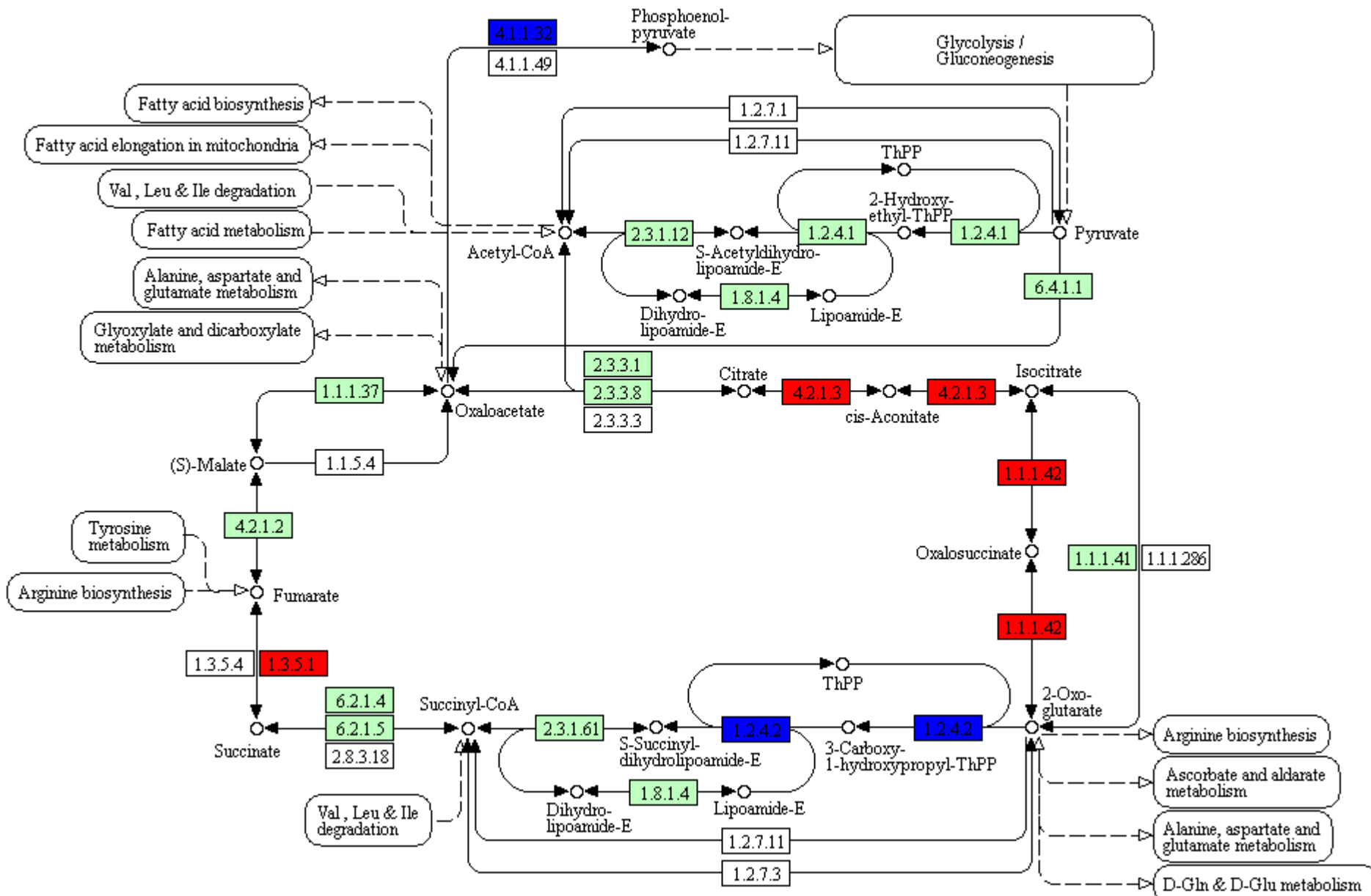
FATTY ACID DEGRADATION



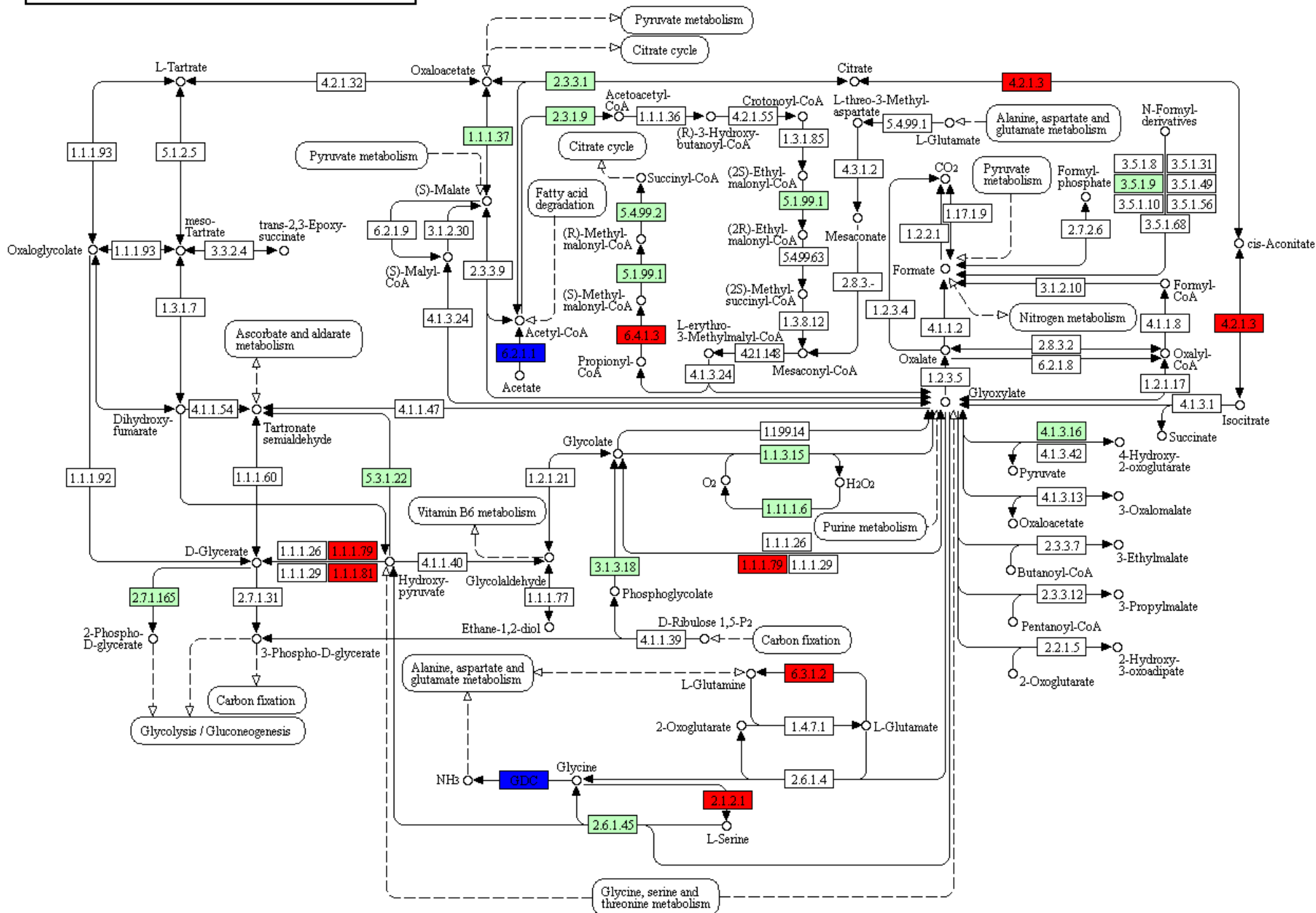
BIOSYNTHESIS OF UNSATURATED FATTY ACIDS



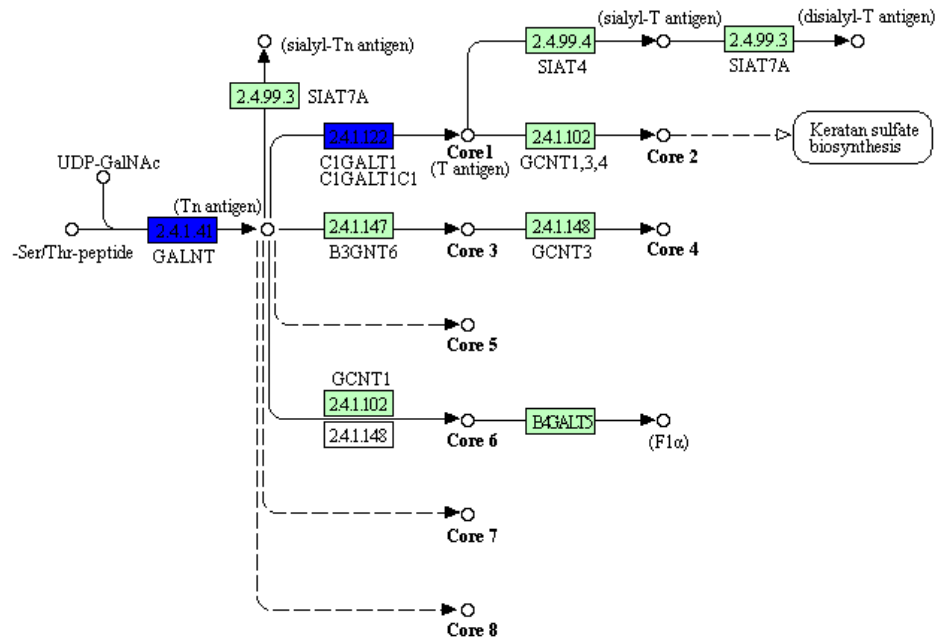
CITRATE CYCLE (TCA CYCLE)



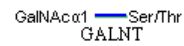
GLYOXYLATE AND DICARBOXYLATE METABOLISM



MUCIN TYPE O-GLYCAN BIOSYNTHESIS



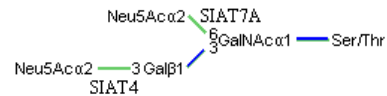
Tn antigen



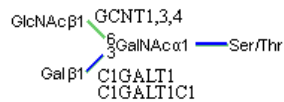
Sialyl-Tn antigen



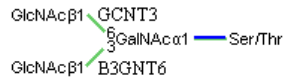
Disialyl-T antigen



Core 1, 2



Core 3, 4



Core 5



Core 6 & F1 α



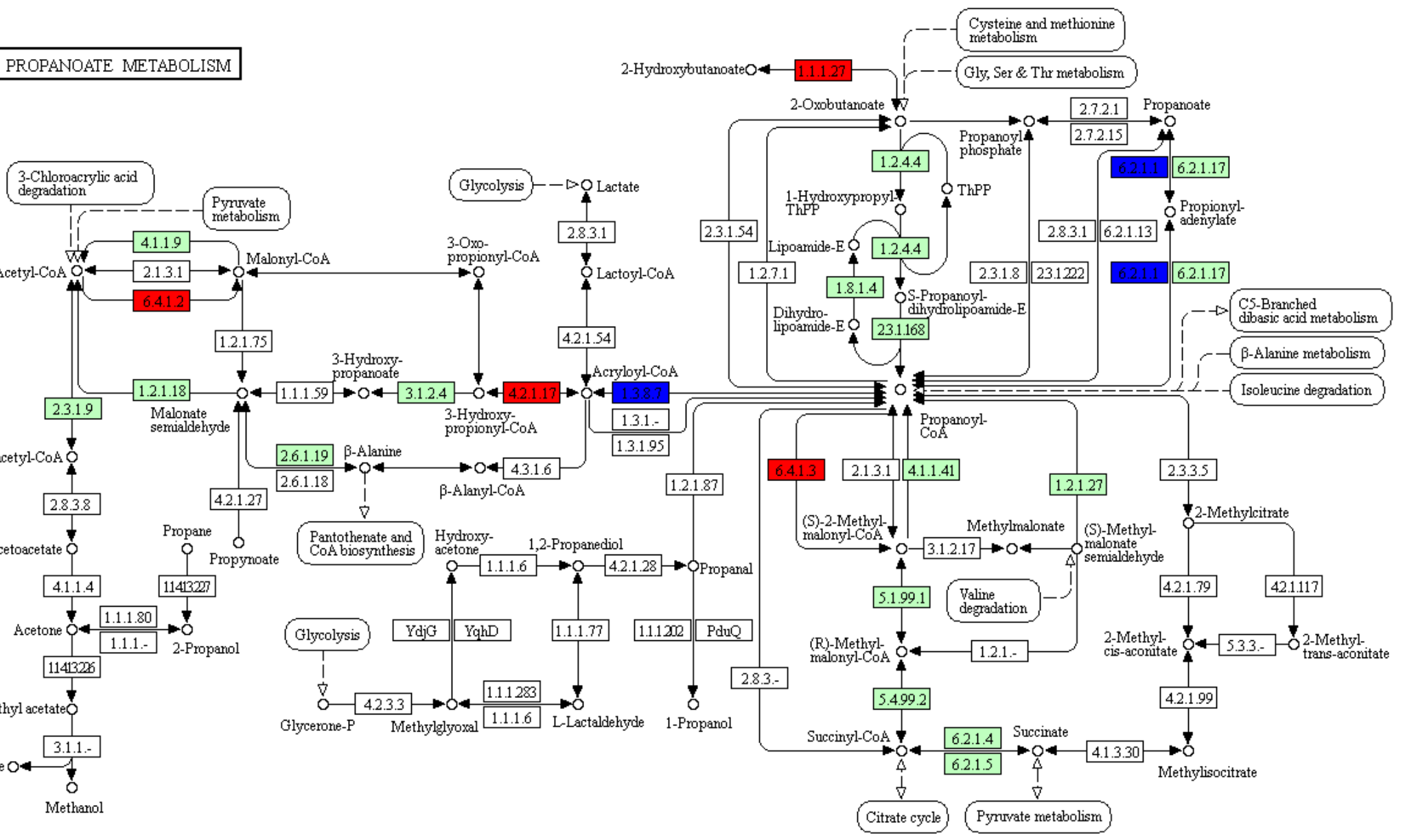
Core 7



Core 8



PROPANOATE METABOLISM



PROXIMAL TUBULE BICARBONATE RECLAMATION

