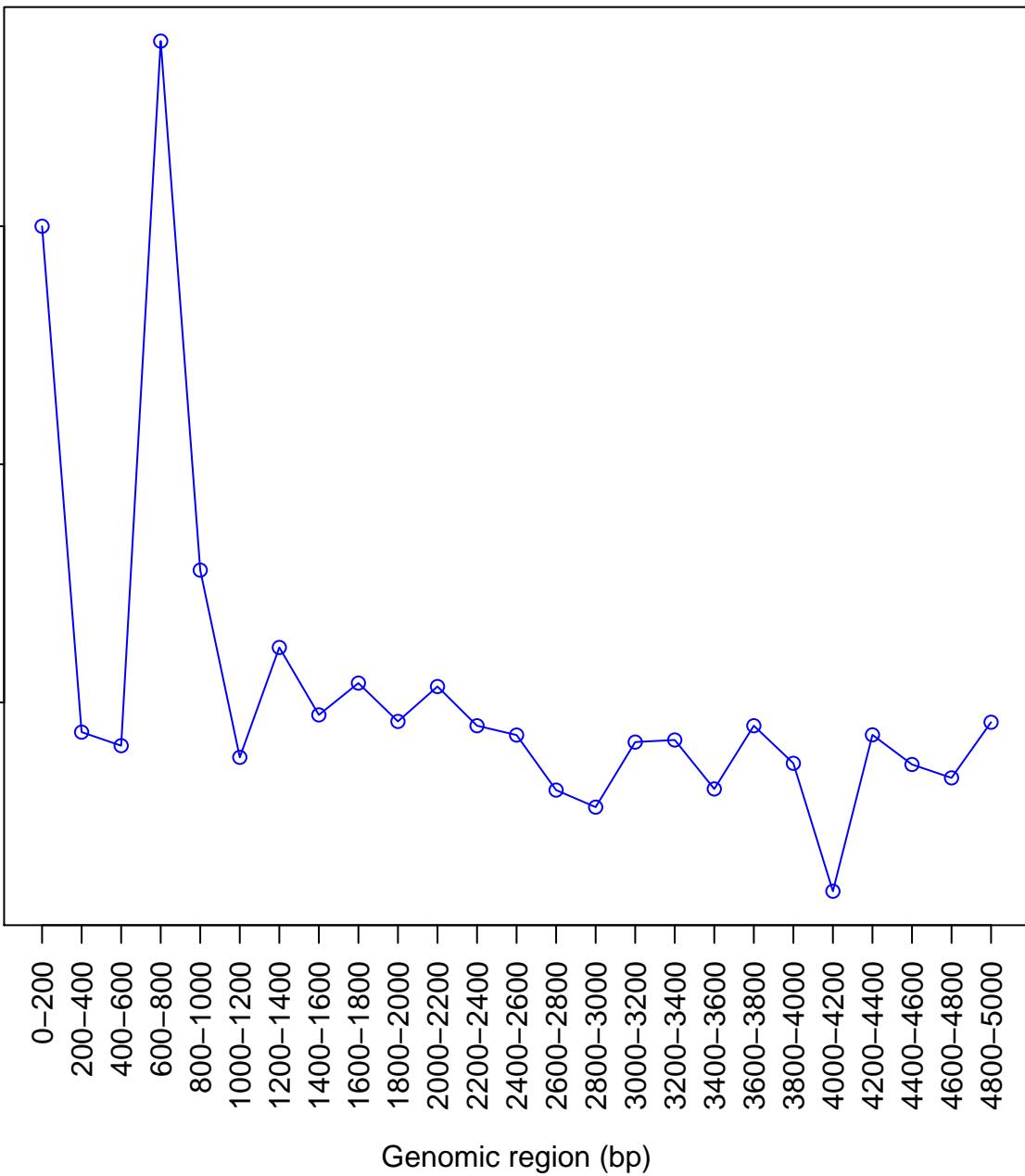
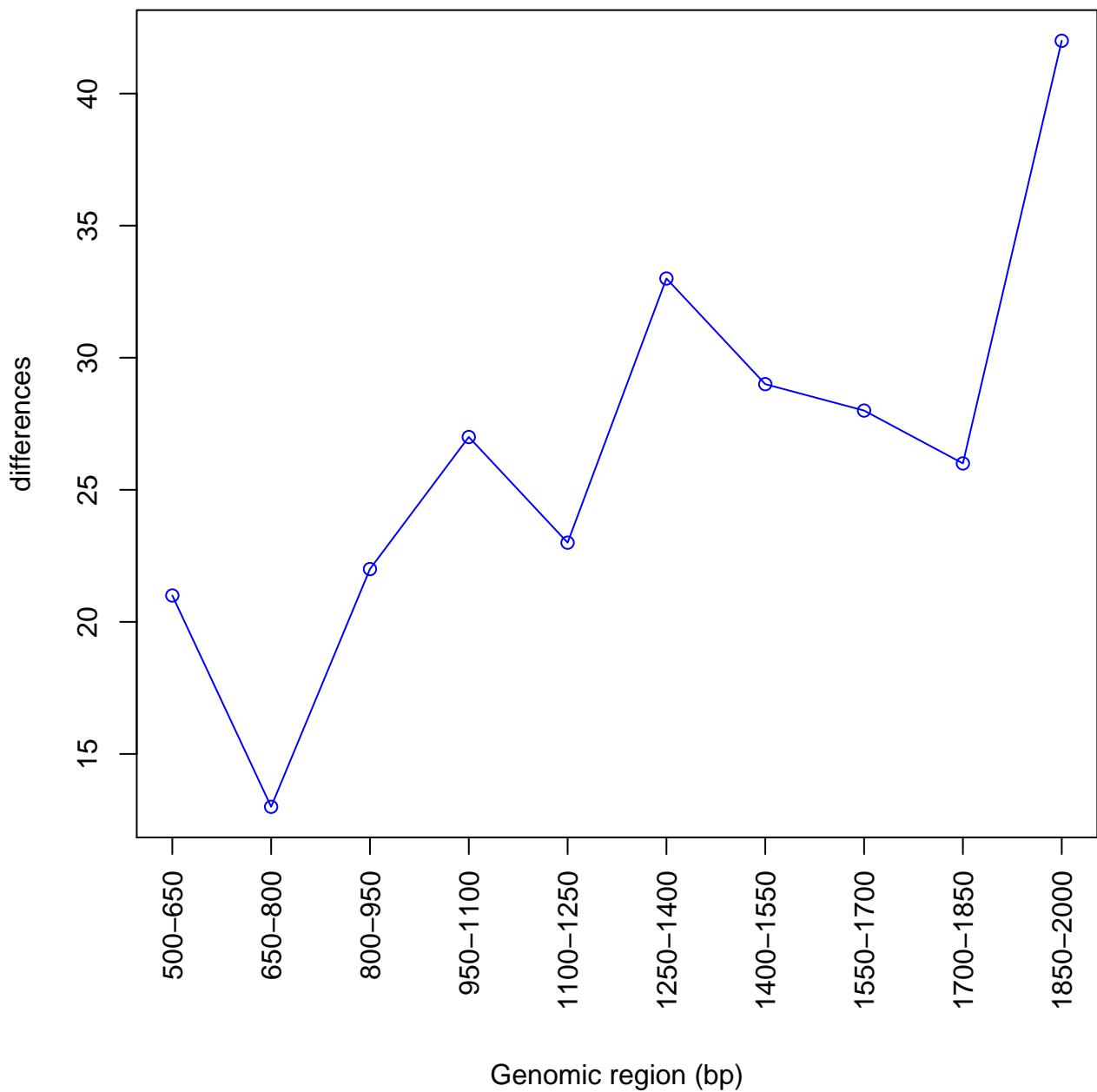


Significant Peaks /Total Peaks (  $\psi$  )





The figure is a word cloud visualization centered on the theme of regulation. The words are organized into several main categories:

- Development:** hematopoietic, autophasphorylation, lipopolysaccharide, expression, kappaB, activation, circadian, metabolic, polymerase, biological, small, blood, apoptotic, membrane, learning, transduction, stimulus, morphogenesis.
- Cell:** protein, tissue, sensory, synaptic, stem, ion, chemical, reduction, receptor, ventricular.
- Signaling:** antigenic, bacterium, cascade, embryonic, peptide, helper, secretion, intracellular, growth, cellular, eye, coupled, tRNA, serine, axon, defense, acid.
- Process:** transmission, gland, immune, mitotic, transmission, gamma, leukocyte, fusion, vascular, monocyte, interleukin, perception, factor, adhesion, wnt, innate, promoter, migration, angiogenesis, nervous, neuron, maintenance, cptase, formation, genome, nutrient, levels, chemokine.
- Positive:** involved, differentiation, type, pathway, positive, signaling, process, lens, transport, adhesion, assembly, smooth, phosphorylation, kidney, mediated, tyrosine, insulin, production, epithelial, kinase, heat-shock, necrotic, homeostasis, extrinsic, endocardium, chemotaxis, hepatocyte, liver, endocytosis.
- Negative:** linked, catabolic, lung, gabaergic, binding, pressure, dependent, interferon, cascade, central, glucocorticoid, cycle, mast, virus, biosynthetic, beta, peptide, muscle, helper, secretion, intracellular, growth, cellular, eye, coupled, tRNA, serine, axon, defense, acid.



The figure is a word cloud visualization centered around the concepts of binding and activity. The words are arranged in a large, bold central cluster with smaller words branching outwards. The colors of the words represent different biological categories:

- grey:** endopeptidase, benzaldehyde, phospholipase, acetylglucosaminyltransferase, phospholipid, neurotrophic, cannabinoid, guanylate oxidoreductase, exchange, phosphoprotein, secondary activated, sulfotransferase, nad, sulfate, olfactory, corepressor, peroxidase, domain, molecule, adhesion tag, lipid, kinase, metal, zinc, active, motif, rna, dna, the function, transcription, proximal ligase, chloroallyl, nucleotide, acetylglucosamine.
- orange:** bicarbonate, endonuclelease, phosphatidylinositol, atpase, esterase, monooxygenase, dioxygenase, estrogen, identical, co2 exchanger, endoperoxide, syntaxin, ribosome, chaperone, serine, polymerase, chemokine, transmembrane, gtpase, enhancer, gtp, iron, transporter, core, ion, non sh2, kinase, motif, rna, dna.
- red:** bicarbonate, efflux, phosphatidylserine, phosphatidylcholine, phosphatidylethanolamine, phosphatidylinositol, activator, insulin, prostaglandin, gdp complex, synthase, heme, constituent, volume, aldehyde, efflux, oxygen, terminus, release, drug, growth, cytoskeleton, inorganic, trna, acceptor, nucleotidase, regulatory, ligand, histamine, magnesium group, transferase, oxalate spanning, alcohol, gaba, proteoglycan, specific, molecular, coupled, anion channel, structural, heterodimerization, acting, transcriptional, aryl, nucleic, virus, homodimerization, hydrocarbon, dimerization, lysozyme, sensitive, incorporation, unvoided, threonine, tyrosine, snap, tastier, box, dehydrogenase, bitter, type, chondroitin, nuclear.
- blue:** receptor, atp, ctd, chloride, sequence, phosphatase, sterol, paired, thiositol, downstream, do, donors, cilary, promoter, atp, dehydrogenase, bitter, type, chondroitin, nuclear.
- green:** endopeptidase, benzaldehyde, phospholipase, acetylglucosaminyltransferase, phospholipid, neurotrophic, cannabinoid, guanylate oxidoreductase, exchange, phosphoprotein, secondary activated, sulfotransferase, nad, sulfate, olfactory, corepressor, peroxidase, domain, molecule, adhesion tag, lipid, kinase, metal, zinc, active, motif, rna, dna, the function, transcription, proximal ligase, chloroallyl, nucleotide, acetylglucosamine.
- yellow:** receptor, binding, activity, sequence.

