Natural Language Quantification: Report

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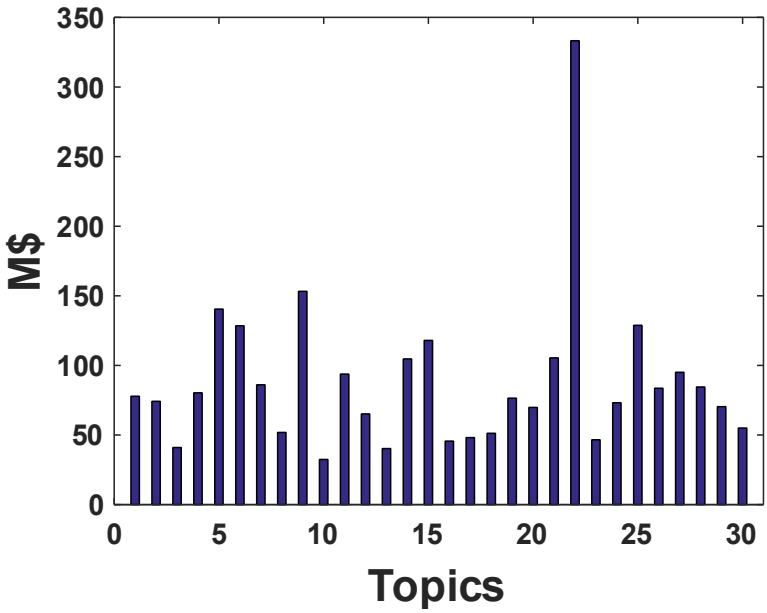
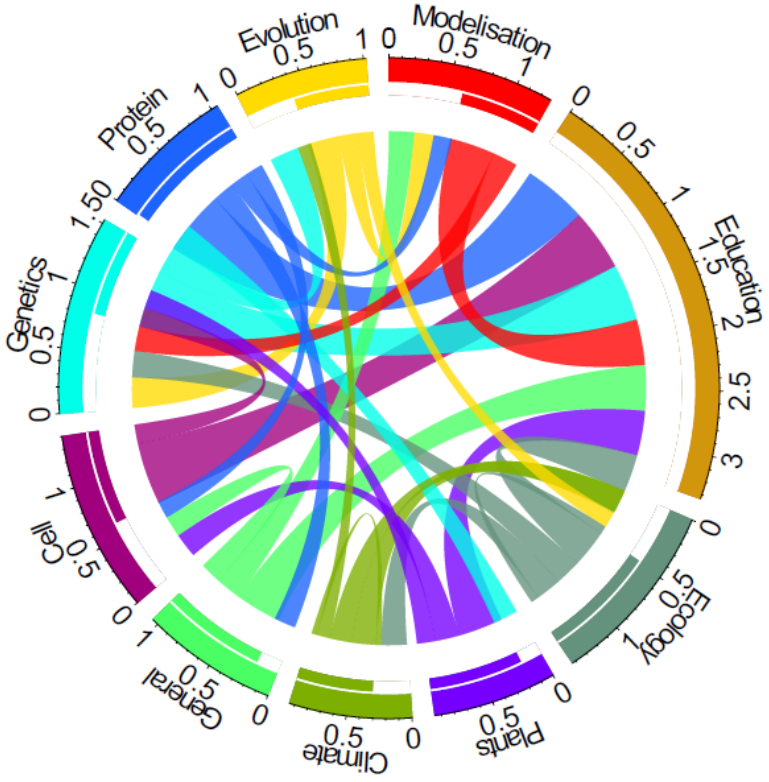
Topics composition:

Topic 1: behavior social female male animal species individuals
Topic 2: cell membrane protein transport molecular cellular biology
Topic 3: fellowship biology animal training plan fellow include
Topic 4: bacteria metabolism microbes production energy pathways cell
Topic 5: cell development signaling protein gene molecular mechanisms
Topic 6: data develop model methods tools computational biology
Topic 7: researchers science network biology community scientific
Topic 8: fungi soil plant microbes carbon ecosystem decomposition
Topic 9: gene evolution species population variation different change
Topic 10: pollen habitat bees plant pollination change sperm
Topic 11: forest climate change ecosystem model tree data
Topic 12: students program reu biology edu training pi
Topic 13: gene dna chromatin epigene expression methylation development
Topic 14: biology model systems network develop program division
Topic 15: species population plant diversity ecological effects communities
Topic 16: enzyme protein iron amino acid reaction function
Topic 17: university state students researchers system center california
Topic 18: marine ecosystem ocean sea fish animal algae
Topic 19: gene rna protein expression transcription regulatory regulation
Topic 20: cell imaging biology high resolution instrument develop
Topic 21: protein structure molecular interactions binding function folding
Topic 22: students undergraduate science school high graduate biology
Topic 23: dna gene chromosome repair cell protein bacteria
Topic 24: host disease pathogen pathogens immune bacteria plant
Topic 25: species diversity evolution data life tree phylogene
Topic 26: change environmental stress conditions climate responses
Topic 27: plant gene crop arabidopsis growth development production
Topic 28: brain neurons behavior neural animal system sensory
Topic 29: collection data specimens change resource biology available
Topic 30: nitrogen carbon stream nutrient water dioxide fixation

Amount generated by each topic (in millions of USD):



Circular plot to visualize the interaction between topics:



NSF - Biological Science department, awards active after 2015. Each unit represents 100 M$
The topic "Protein" has generated 105 M$ and overlapped with: {Education: 50 M$, Modelisation: 10 M$, General: 10 M$, Cell:10 M$}.