

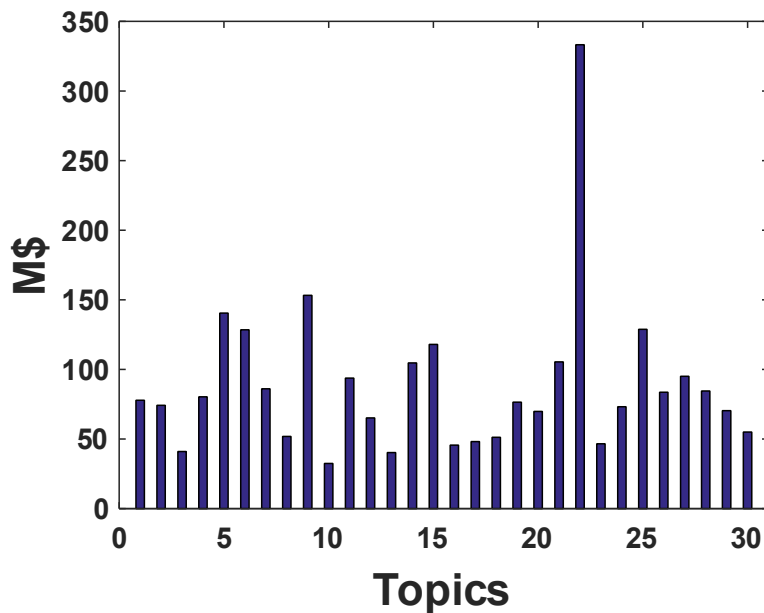
June 1, 2016

Natural Language Quantification: Report

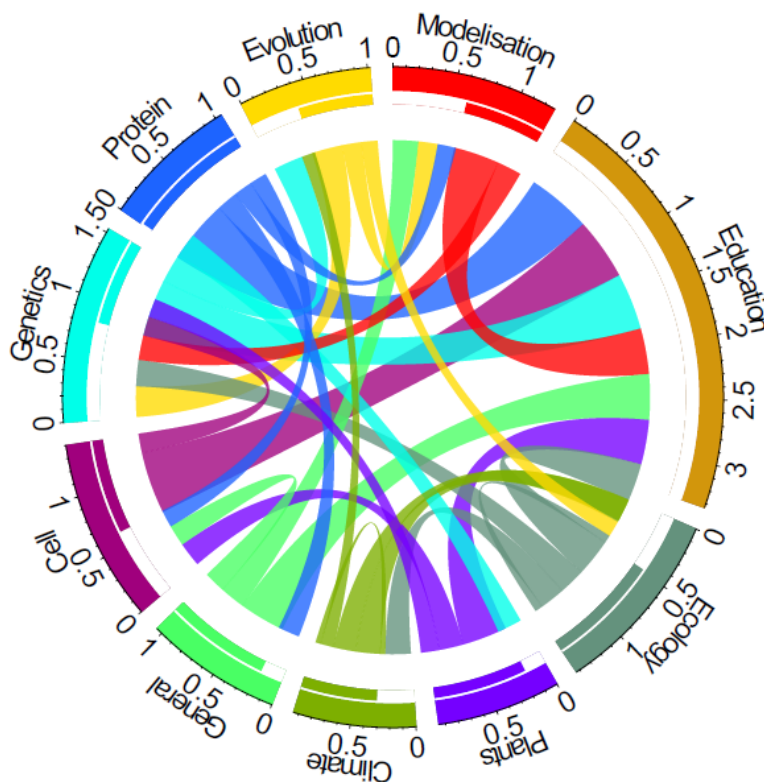
Topics composition:

- 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\$}.