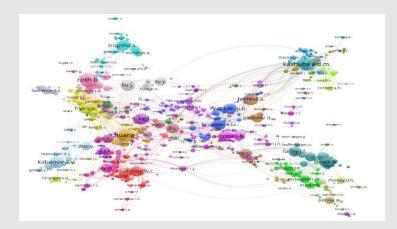
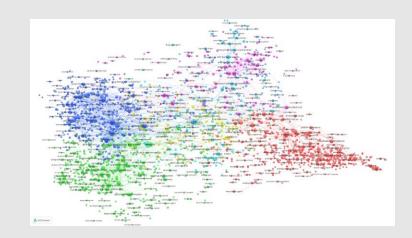
The HSL Impact Measurement and Visualization Team has worked with the School of Pharmacy to conduct a series of bibliometric analyses to examine:

- Collaboration patterns amongst ESOP faculty, students, and UNC-associated researchers
- Related topics of study, as indicated through research output





Questions Considered



With whom are faculty collaborating? What are the areas of overlap / specialization across divisions?

2

What are implications for the curriculum?

Scope

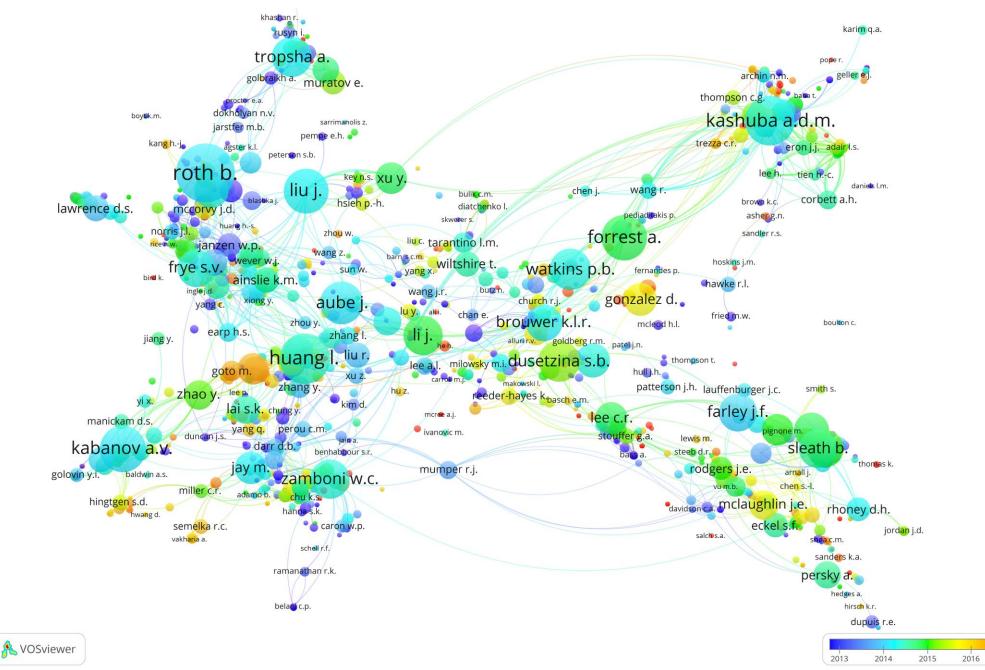
For this analysis, we focused on two aspects of research output, including:

- Co-authorship analysis: Examines collaboration between ESOP and UNC-affiliated authors with whom they have collaborated, as presented in article-level citations.
- Topic Analysis: Examines author and index keywords, with high frequency of occurrence, and the proximity of term use within a set of citations.

Data Collection & Process

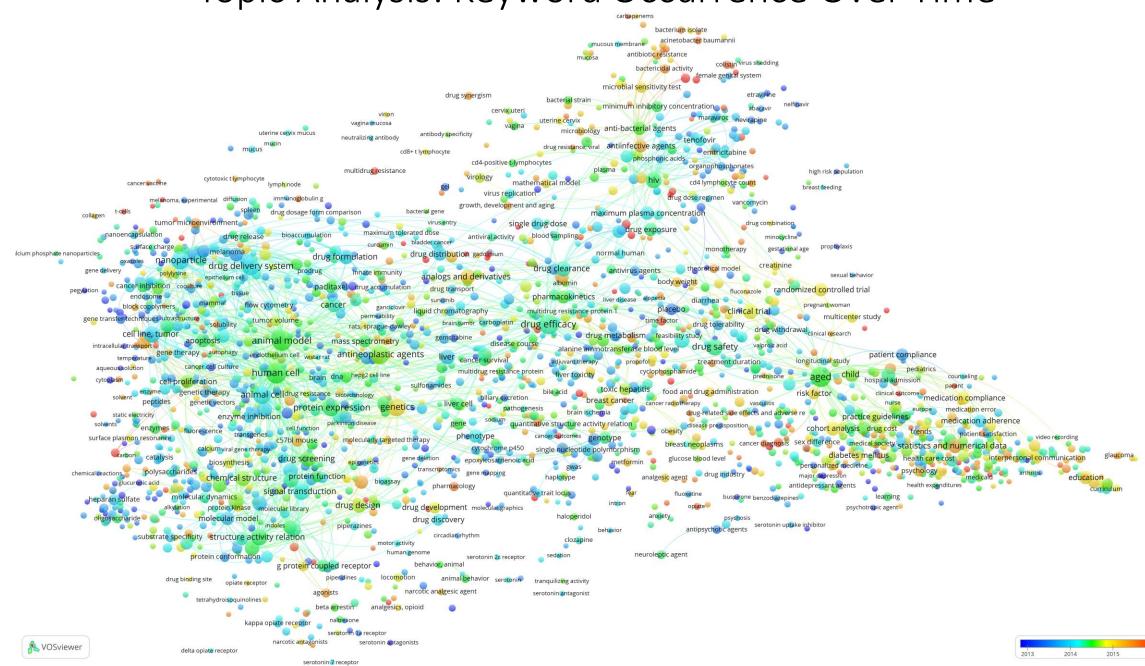
- Publication search in citation database: Scopus
- **66** Pharmacy faculty names provided by the School of Pharmacy
- Publication Years: 2012 to 2017
- Search result total: 1858 Citations

Overview of Author Collaboration: ESOP Faculty And Other UNC Researchers

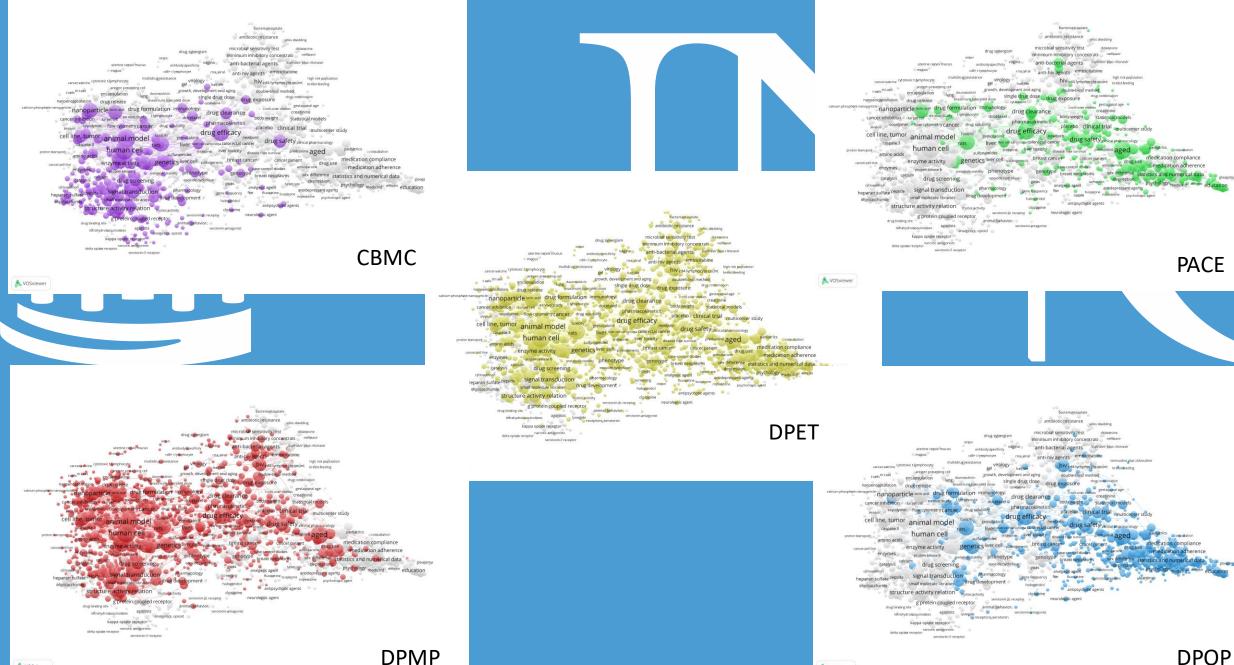


2017

Topic Analysis: Keyword Occurrence Over Time



2016

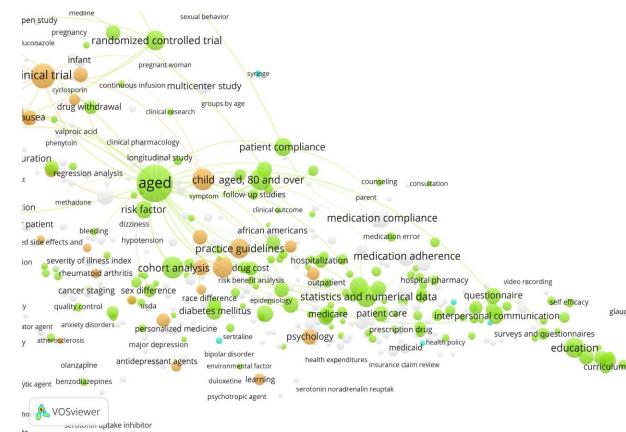


& VOSviewer

DPOP

Areas of Overlap

LUTTOL THIC VELIVILOTITIETE solid tumor VILUS CITUT single arug maximum tolerated dose nanoencapsulation bioaccumulation blood drug release antiviral activity bladder cancer medical nanotechnology drug distribution gadolinium drug carriers drug formulation etastasi nanoparticle cisplati drug nanomedicine innate immunity plantation analogs and derivatives circulation time drug conjugation paclitaxel coculture drug accumulation drug transport plasmid dna endosom phari sunitinib cancer plack conclymers flow cytometry rapamycin multir iquid chromatography cross linking permeability gene transfer techniques carboplatin drug e tumor volume brain tumor solubility rats, sprague-dawleytopotecan cell line, tumor mass spectrometry tandem mass spectrometry animal model apoptosis disease course intracellular transpol autophagy gene therapy antineoplastic agents rna endothelium cell pharmaceu temperature cancer surviva aqueous solution cancer cell culture multidrug resistance protein human cell hepg2 cell line ransport cytoplasm homeostasis triacylglycerol cell proliferation sulfonamides 0 9 genetic therapy bi animal cell drug resistance protein transport biliary excretion genetic vecto liver ce protein expression genetics pathogenesis cancercell line static electricity enzyme inhibition quantit solvents cell function transcription, genetic reporter gene cano phenotype surface plasmon resonance nuclear magnetic resonance molecularly targeted therapy c57bl mouse cytochrome p450 enzyme activation carbon gene deletion epoxide hydrolase drug screening enigenetics biosynthesis transcriptomics polysaccharides gene mapping chemical structure protein function cycloaddition bioassay onuclear magnetic resonance spe pharmacology signal transduction antinociception quantitative tra molecular dynamics heparan sulfate neurology drug design drug development alkylation olecular library molecular model 🕵 VOSviewer drug discovery cho cell line piperazines ondary short survey circadian rhythm substrate specificity structure activity relation



DPMP / CBMC / DPET

DPOP / PACE / DPET

Areas of Overlap

