

Evolution of Interdisciplinary Landscapes of HIV/AIDS Studies from 1983 to 2017: Results from the Global Analysis for Policy in Research (GAP_{RESEARCH})

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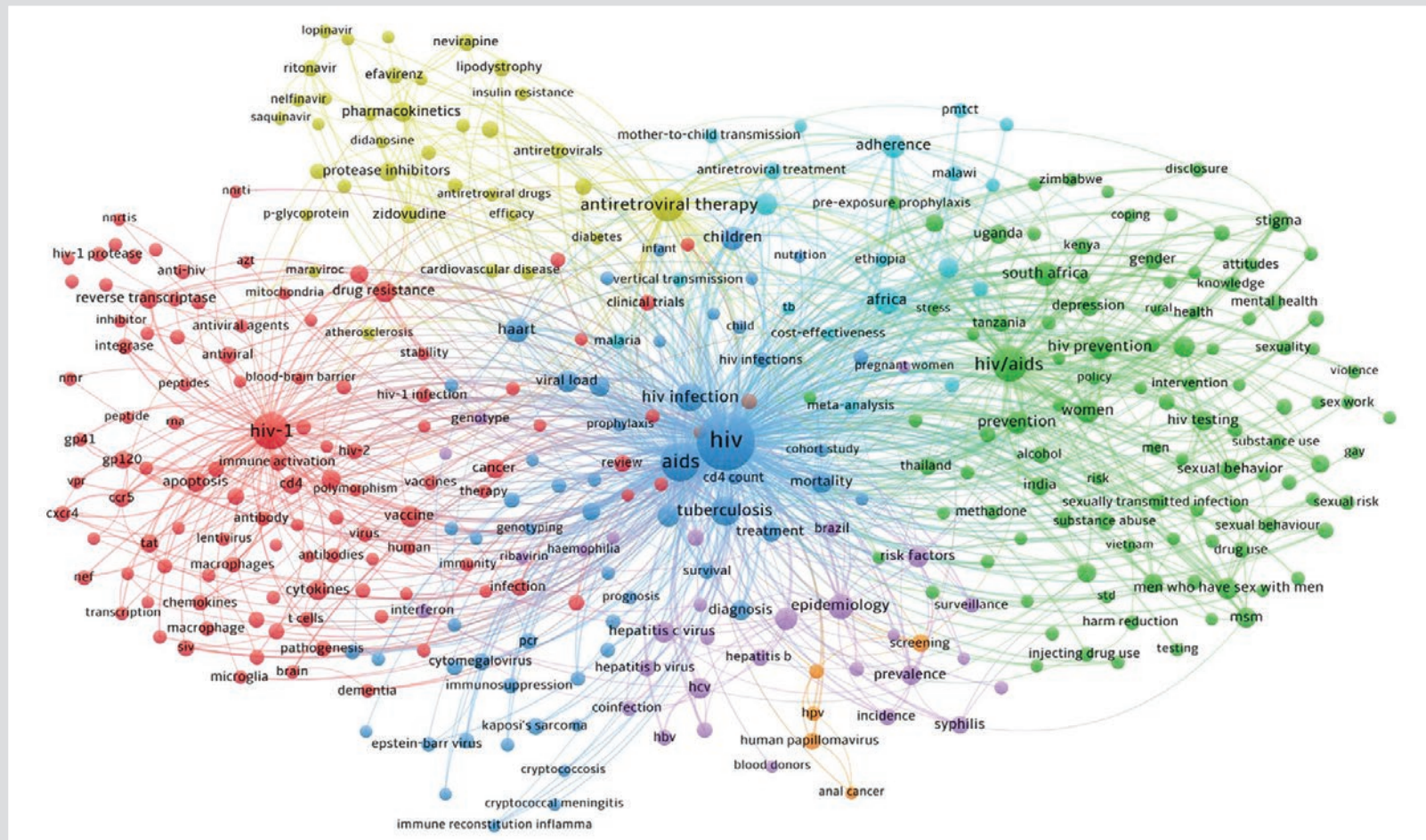
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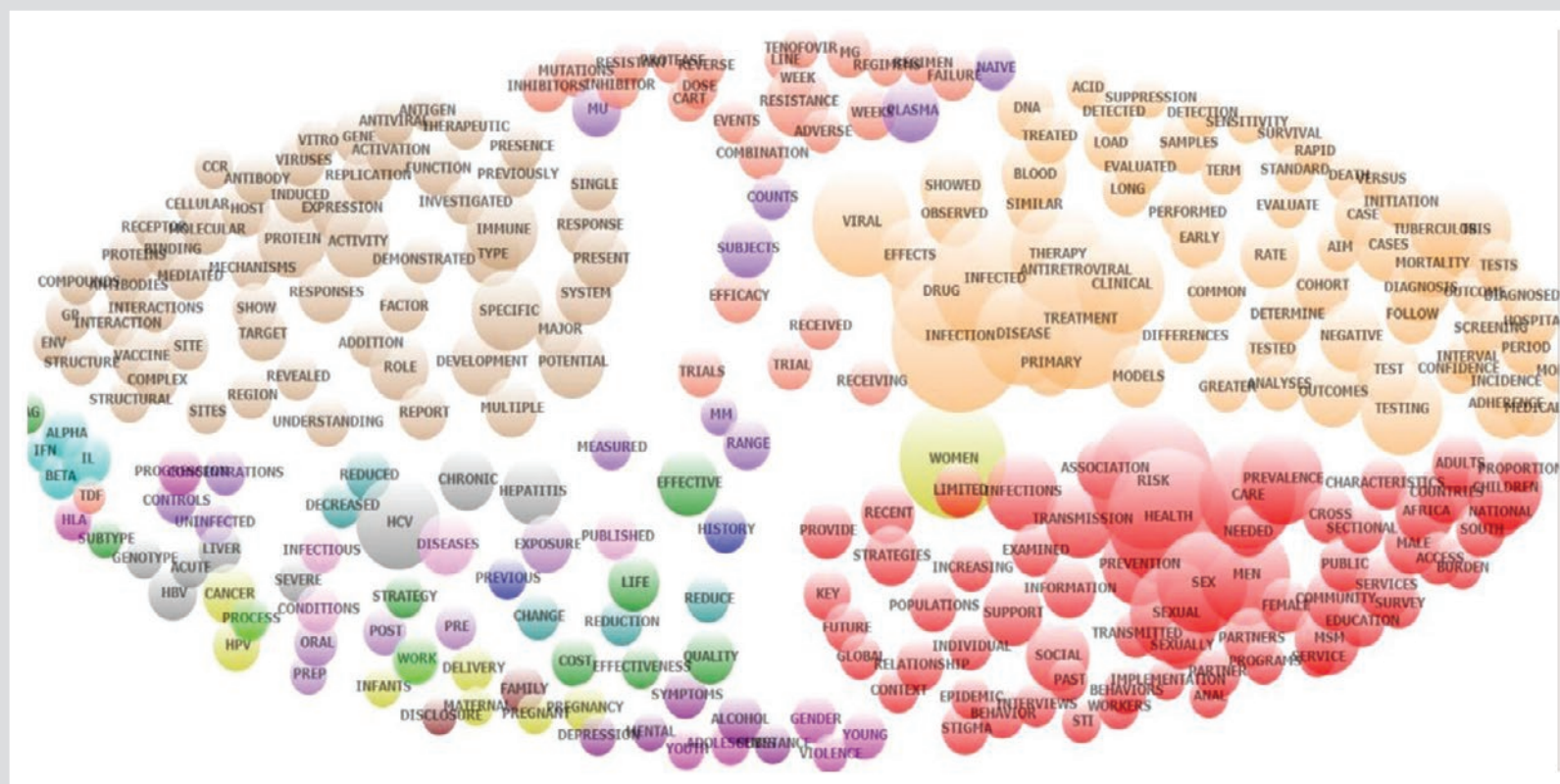
Supplementary Table 1. General characteristic of publications

Year published	Total number of papers	Total citations	Citation-paper ratio	Mean cite rate per year	Usage past 6 months	Usage past 5 years	Mean use rate past 6 months	Mean use rate past 5 years
2017	14,210	673,563	47	47.40	23,360	65,085	1.64	0.92
2016	14,346	677,499	47	23.61	12,198	105,191	0.85	1.47
2015	14,217	654,401	46	15.34	8,886	127,510	0.63	1.79
2014	14,306	662,679	46	11.58	6,794	136,693	0.47	1.91
2013	14,408	655,837	46	9.10	6,116	169,767	0.42	2.36
2012	13,672	626,256	46	7.63	5,402	131,112	0.40	1.92
2011	12,874	582,516	45	6.46	4,359	94,386	0.34	1.47
2010	12,001	537,074	45	5.59	3,805	76,932	0.32	1.28
2009	10,829	474,850	44	4.87	3,824	64,167	0.35	1.19
2008	10,429	452,832	43	4.34	3,305	55,616	0.32	1.07
2007	9,840	415,013	42	3.83	2,931	48,043	0.30	0.98
2006	8,885	387,689	44	3.64	2,322	41,834	0.26	0.94
2005	8,319	361,985	44	3.35	2,146	36,572	0.26	0.88
2004	7,688	343,120	45	3.19	2,132	35,292	0.28	0.92
2003	7,121	307,591	43	2.88	1,779	28,909	0.25	0.81
2002	6,778	289,718	43	2.67	1,603	24,799	0.24	0.73
2001	6,830	280,525	41	2.42	1,488	23,670	0.22	0.69
2000	6,963	287,526	41	2.29	1,478	23,945	0.21	0.69
1999	6,776	274,638	41	2.13	1,223	18,813	0.18	0.56
1998	6,838	270,652	40	1.98	1,215	19,203	0.18	0.56
1997	6,588	261,009	40	1.89	1,089	15,902	0.17	0.48
1996	6,633	255,634	39	1.75	995	14,593	0.15	0.44
1995	5,532	207,642	38	1.63	708	10,870	0.13	0.39
1994	5,065	190,791	38	1.57	714	9,355	0.14	0.37
1993	4,752	172,916	36	1.46	562	7,699	0.12	0.32
1992	4,478	154,745	35	1.33	447	6,815	0.10	0.30
1991	3,675	119,061	32	1.20	405	5,808	0.11	0.32
1990	2,159	62,273	29	1.03	176	2,284	0.08	0.21
1989	1,612	45,945	29	0.98	114	1,722	0.07	0.21
1988	1,234	32,752	27	0.88	123	1,680	0.10	0.27
1987	666	16,207	24	0.78	61	672	0.09	0.20
1986	195	4,978	26	0.80	15	229	0.08	0.23
1985	119	3,653	31	0.93	4	61	0.03	0.10
1984	132	3,391	26	0.76	4	89	0.03	0.13
1983	38	1,327	35	1.00	20	349	0.53	1.84

Supplementary Table 2. Most cited papers			
No	Title	Journals	Citation
1	Declining morbidity and mortality among patients with advanced HIV infection	New England journal of medicine	6445
2	Automated docking using a Lamarckian genetic algorithm and an empirical binding free energy function	Journal of computational chemistry	6261
3	Isolation of a t-lymphotropic retrovirus from a patient at risk for the acquired immune deficiency syndrome	Science	5296
4	Autodock 4 and Autodock Tools4: automated docking with selective receptor flexibility	Journal of computational chemistry	4314
5	Real-time quantitative polymerase chain reaction	Genome research	4139
6	Interleukin-10 and the interleukin-10 receptor	Annual review of immunology	4023
7	Alternative projections of mortality and disability by cause 1990-2020: global burden of disease study	Lancet	4005
8	Projections of global mortality and burden of disease from 2002 to 2030	Plos Medicine	3904
9	Function and activation of nf-kappa-b in the immune-system	Annual review of immunology	3822
10	Rapid turnover of plasma virions and cd4 lymphocytes in HIV-1 infection	Nature	3503
11	Prevention of HIV-1 infection with early antiretroviral therapy	New England journal of medicine	3479
12	Disability-adjusted life years for 291 diseases and injuries in 21 regions, 1990-2010: a systematic analysis for the Global Burden of Disease Study 2010	Lancet	3420
13	Alternative activation of macrophages	Nature reviews immunology	3325
14	HIV-1 entry cofactor: functional cDNA cloning of a seven-transmembrane, G protein-coupled receptor	Science	3317
15	<i>In vivo</i> gene delivery and stable transduction of nondividing cells by a lentiviral vector	Science	3315
16	Reactive oxygen intermediates as apparently widely used messengers in the activation of the nf-kappa-b transcription factor and HIV-1	Embo journal	3214
17	Medical progress – <i>Staphylococcus aureus</i> infections	New England Journal of Medicine	3014
18	Global and regional burden of disease and risk factors, 2001: systematic analysis of population health data	Lancet	2991
19	Polyoxometalate chemistry – an old field with new dimensions in several disciplines	Angewandte Chemie International Edition in English	2975
20	Identification of a major coreceptor for primary isolates of HIV-1	Nature	2936
21	Plant products as antimicrobial agents	Clinical microbiology reviews	2847
22	Chemokines – chemotactic cytokines that mediate inflammation	New England Journal of Medicine	2777
23	Viral dynamics in human immunodeficiency virus type-1 infection	Nature	2722
24	Activators and target genes of Rel/NF-kappa B transcription factors	Oncogene	2716
25	Phenotypic analysis of antigen-specific T lymphocytes	Science	2711
26	Global and regional mortality from 235 causes of death for 20 age groups in 1990 and 2010: a systematic analysis for the Global Burden of Disease Study 2010	Lancet	2704
27	Aryl-aryl bond formation by transition-metal-catalyzed direct arylation	Chemical reviews	2700
28	Years lived with disability for 1160 sequelae of 289 diseases and injuries 1990-2010: a systematic analysis for the Global Burden of Disease Study 2010	Lancet	2668
29	HIV-1 entry into CD4(+) cells is mediated by the chemokine receptor CC-CKR-5	Nature	2639
30	Increased educational attainment and its effect on child mortality in 175 countries between 1970 and 2009: a systematic analysis	Lancet	2632
31	Prejudice, social stress, and mental health in lesbian, gay, and bisexual populations: conceptual issues and research evidence	Psychological bulletin	2568
32	Reduction of maternal-infant transmission of human-immunodeficiency-virus type-1 with zidovudine treatment	New England Journal of Medicine	2566
33	Absolute quantification of mRNA using real-time reverse transcription polymerase chain reaction assays	Journal of Molecular Endocrinology	2554
34	Synthesis of proteins by native chemical ligation	Science	2433
35	Identification of rantes, mip-1-alpha, and mip-1-beta as the major HIV-suppressive factors produced by CD8(+) t-cells	Science	2413
36	CC CKRS: A RANTES, MIP-1 alpha, MIP-1 beta-receptor as a fusion cofactor for macrophage-tropic HIV-1	Science	2258
37	Global burden of tuberculosis-estimated incidence, prevalence, and mortality by country	Jama-journal of the American Medical Association	2194
38	An official ATS/IDSA statement: diagnosis, treatment, and prevention of nontuberculous mycobacterial diseases	American Journal of Respiratory and Critical Care Medicine	2184
39	Species-specific recognition of single-stranded RNA via toll-like receptor 7 and 8	Science	2183
40	Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013	Lancet	2179
41	Homozygous defect in HIV-1 coreceptor accounts for resistance of some multiply-exposed individuals to HIV-1 infection	Cell	2154
42	Chemokines and leukocyte traffic	Nature	2153
43	Diagnosis, management, and treatment of hepatitis C: an update	Hepatology	2114
44	The importance of selenium to human health	Lancet	2097
45	Resistance to HIV-1 infection in Caucasian individuals bearing mutant alleles of the CCR-5 chemokine receptor gene	Nature	2095
46	Structure of an HIV gp120 envelope glycoprotein in complex with the CD4 receptor and a neutralizing human antibody	Nature	2091
47	A controlled trial of two nucleoside analogs plus indinavir in persons with HIV infection and CD4 cell counts of 200 per cubic millimeter or less	New England Journal of Medicine	2088
48	Kaposi sarcoma-associated herpesvirus-like DNA-sequences in aids-related body-cavity-based lymphomas	New England Journal of Medicine	2074
49	Adherence to protease inhibitor therapy and outcomes in patients with HIV infection	Annals of internal medicine	2024
50	Global trends in emerging infectious diseases	Nature	2020
51	Prognosis in HIV-1 infection predicted by the quantity of virus in plasma	Science	2016
52	The biochemical basis of zinc physiology	Physiological reviews	2011



Supplementary Figure 2. Co-occurrence of author's keywords.



Supplementary Figure 3. *Multidimensional scaling plot of research topics.*