



Heidelberg–Mannheim, Germany

Heidelberg–Mannheim is the sixth-ranked cluster, out of 9 German clusters, that falls within the top 100 S&T clusters in 2023. It filed **1,968 PCT applications** and published **6,914 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

62nd largest science and technology cluster in 2023 (down one spot from 2022)

26th S&T cluster by intensity (relative to population density) in 2023 (up two spots from 2022)

Top PCT applicants

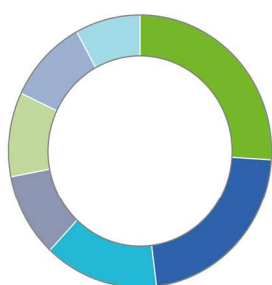
		Patents	Share
1	Basf	1,627	41%
2	Nec Laboratories Europe Gmbh	103	3%
3	Abb Schweiz Ag	98	2%

Top publishing organizations

		Articles	Share
1	Ruprecht Karls University Heidelberg	6,702	48%
2	Ruprecht Karl University Heidelberg	1,747	13%
3	German Cancer Research Center (Dkfz)	1,417	10%

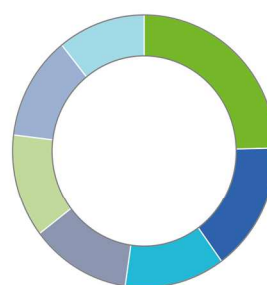
Top technology fields in Heidelberg–Mannheim

Patents



Basic materials chemistry (13%)	Measurement (5%)
Organic fine chem. (11%)	Chem. engineering (5%)
Molecular chem. (7%)	Medical tech. (4%)
Electrical machinery (5%)	

Publications



Clinical medicine (16%)	Technology (8%)
Biochem. & biotech. (10%)	Physics & math (8%)
Surgery (8%)	Chemistry (7%)
Earth sciences (8%)	

46% of Heidelberg–Mannheim's PCT patent applications are filed in collaboration with other inventors, with **Frankfurt am Main**, **Karlsruhe** and **Stuttgart** emerging as the top collaborative locations.

81% of Heidelberg–Mannheim's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **Cologne**, **Munich** and **Frankfurt am Main**.