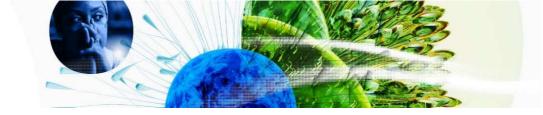
Global Innovation Index 2023



Frankfurt am Main, Germany

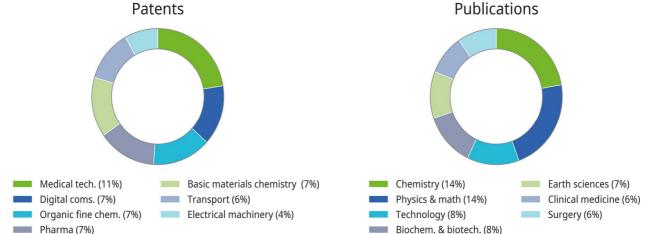
Frankfurt am Main is the fifth-ranked cluster, out of 9 German clusters, that falls within the top 100 S&T clusters in 2023. It filed 1,419 PCT applications and published 4,875 scientific articles, both per 1 million inhabitants over the last five years, making it the:

45th largest science and technology cluster in 2023 (down two spots from 2022)

42nd S&T cluster by intensity (relative to population density) in 2023 (up three spots from 2022)

Top PCT applicants			Top publishing organizations		
		Patents	Share	Articles	Share
1	Merck Patent	510	9%	1 Johannes Gutenberg University of Mainz 4,179	23%
2	Sanofi-Aventis	225	4%	2 Goethe University Frankfurt 3,344	18%
3	Continental Automotive Gmbh	223	4%	3 Darmstadt University of Technology 1,852	10%





39% of Frankfurt am Main's PCT patent applications are filed in collaboration with other inventors, with Heidelberg–Mannheim, Cologne and Chicago emerging as the top collaborative locations.

73% of Frankfurt am Main's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being Cologne, Heidelberg–Mannheim and Berlin.