Characterization of research groups and seedbeds

of Higher Education Institutions affiliated with the **District of Medellin**



To identify characteristics of the research groups and seedbeds of the HEIs, in aspects like their conformation, the Minciencias classification in the knowledge areas where they are attached the products they generate and the networks and scenarios in which they participate, in the period between 2012-2022.

Research groups and seedbeds



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Group of students who, with the guidance of a of a teacher or tutor, develops actions to promote the interest in knowledge and research capacity





Group of people interacting to research, generate and share knowledge products on specific topics

Purposes

- · Facilitating the generational replacement of teachers and researchers
- Promote and develop processes of
- Promoting interest in knowledge and facilitating interaction with other academic communities
- Promoting interdisciplinary dialogue

Purposes

- Generate knowledge in specific areas of knowledge
- Contribute to the strengthening of academic programs
- To provide elements to understand social and business problems in order to build alternative solutions
- Contribute to the consolidation of the research culture and to give visibility to the institution in local, national and international contexts.
- Contribute to the processes of renewal of registration and high-quality accreditation processes

Sex of the researchers























Knowledge areas of the research groups





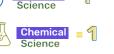




















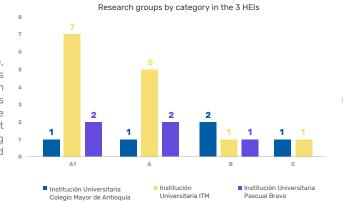






Classification of the research groups

The National Ministry of Science, Technology and Innovation -Minciencias has defined a classification of research groups, according to criteria such as scientific production, characteristics of the researchers, compliance with different types of indicators, trajectory, among others. The highest classification is A1 and



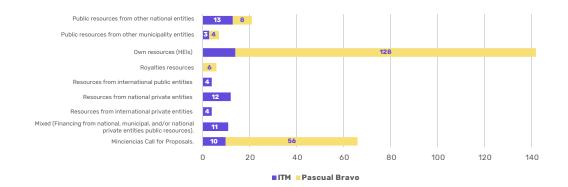
Category of researchers Academic background and sex of researchers Publications of the groups



Products of the research groups of the 3 HEIs.



Research projects by source of financing (ITM and Institución Universitaria Pascual Bravo)



Researh seedbeds

The seedbed is the place where seeds are cared and fed to germinate: likewise, in the research processes, seedbeds are the place where the young spirits are enhance the interest in knowledge and the development of competencies for the research activity.

The seedbeds are therefore fertile ground for formative research and for the generational replacement of teachers and researchers in the institutions.

4.109 people members of the

seedbeds in the 3 HEIs

501 people

Note: this study, conducted for the first time by Sapiencia, seeks to share with the public some aspects of the research activity of the HEIs affiliated to the District, in this sense; it is not intended to evaluate the research work of the institutions, nor to establish comparisons between them, since each one has its own particularities and

Some data on participation in internships and of research awards







OBSERVATORIO Sapiencia

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Areas of knowledge

affiliated

where the seedbeds are

Magna Cum Laude Distinction for Doc Thesis Universidad de Antioquia, 2019

17%

常 16%









Concluding remarks

- It highlights the potential that qualified research personnel represents for the city, as a possibility to drive social and technological innovation processes, which result in the well-being of the inhabitants of the District and contribute to the consolidation of the Science, Technology and Innovation District.
- Building knowledge from diverse areas and perspectives is an opportunity to understand and transform the complex realities of the city, the region and the country. The district's HEIs are moving in this
- 41.6% of the total number of research groups in the 3 HEIs are in A1, the highest category defined by Minciencias. This is a highly significant achievement for the city, as it demonstrates the maturity of the groups and their capacity for high quality scientific production.
- Through the allocation of resources to finance research projects in HEIs (\$ 2,676,605,811 colombian pesos between 2015 and 2022) and through the project to amend Agreement 060 (Premios Fomento a la investigación Alcaldía de Medellín), Sapiencia is committed to strengthening the substantive function

- The HEIs have obtained 16 invention patents, which demonstrates the rigorousness of their scientific
- This characterization exercise provides a glimpse of the potentialities of HEIs and the challenges they face in developing collaborative knowledge building processes, in order to advance in equity among researchers, and to contribute, from the scientific production, to the configuration of the Science, Technology and Innovation District.

For more information on this study, please see the full report at:

www.sapiencia.gov.co/observatorio-informes/





