# Bibliometric analysis of pharmaceuticals occurrence in water bodies



Subtheme 3: Emerging pollutants and managing wastewater and waste

### **Introduction and Objective**

- Pharmaceuticals are part of a growing market corresponding to USD 1.25 trillion (Peña et al. 2021)
- Poor WWTP removing efficiency
- Release of effluent in water bodies



This study aims to verify the evolution of studies about the occurrence of pharmaceuticals in water bodies in a global perspective.

## Methods

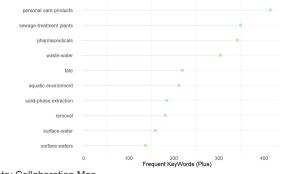
- 1997 2021
- "pharmaceuticals" and "occurrence"
- English idiom

<u></u>

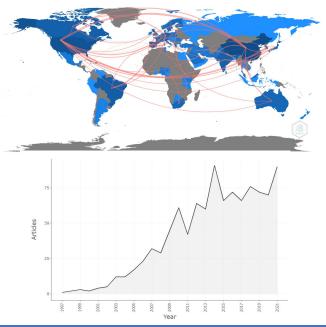
unesco

Biblioshiny app (Bibliometrix, RStudio)

#### Discussion



Country Collaboration Map



#### Conclusion

After 2003 a growing trend in investigations is observed. Strong affiliations between institutions were observed with 18 up to 44 investigations published.

#### References

González Peña, O. I., López Zavala, M. Á., & Cabral Ruelas, H. (2021). Pharmaceuticals market, consumption trends and disease incidence are not driving the pharmaceutical research on water and wastewater. *International journal of environmental research and public health*, *18*(5), 2532.

## Acknowledgments

Coordination of Superior Level Staff Improvement Research Support Foundation of the State of Bahia Gamma lab



