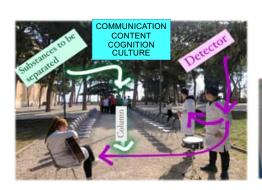


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## **Chromatography Embodiment**

A CLIL approach to outdoor learning and outreach



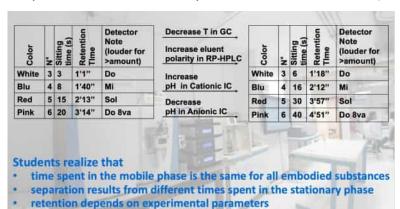






## WHY?

- Embodiment of molecular interactions makes real difficult theoretical models
- Informal learning and videomaking increase students' cooperative involvement in this gamification activity and in outreach
- Mathematical reworking of the recorded data improves students' performance (theory and practice with real samples via GCMS, UPLC-MS)



## Chromatography? Tell me how you walk, and I'll tell you who you are!

Students (molecules) cross the same space and are separated due to their different average speeds, which depend on the different dwell times on stationary phase sites (different affinities)







- 3 On Stage Performances
- 3 Science Festivals
- 1 Podcast

London Exhibition Dante 700

The emotional energy of this edutainment approach helps engage imagination, reflect on practice, cooperate, rationalize the chemical theory, and prevent misconceptions. Drama Science is a highly eligible CLIL activity.