Social and spatial organization in yellow-breasted capuchins at Lyon Zoo (Sapajus xanthosternos)

M. Carriquiry, L. Ohannessian, G. Anfray, X. Vaillant
Université Paris 13 - Zoo de Lyon

Social organization is very important in capuchins with the dominance of an alpha couple, with dominant female.

**Why?**
Hierarchy's problems and conflicts in group of Lyon Zoo

**What?**
1. Spatial organization (with contact and/or distance)
2. Hierarchy (with offensive and defensive behaviors)
3. Tolerance (with agonistic and affiliative interactions)

**Hypothesis?**
The dominant couple $c_1, s_1$ would be the first breeding couple suggested by the coordinator.

**How?**
Scan sampling and focal observations to obtain association, hierarchy and tolerance index

---

**SPATIAL ORGANIZATION**

---

**HIERARCHY**

---

**TOLERANCE**

---

**Conclusion**

First breeding couple suggested by coordinator is no longer the alpha dominant couple

$- c_1$ close to $s_2$

$- s_1$ taken dominance

$- s_1$ now dominated

$- his$ young $c_2$ and $c_3$ also dominated

$- his$ youngest $c_3$ is intermediate and the best tolerated in the group

$- c_4$ and $c_5$ are the 3 youngest

$- the$ best tolerated