Dear Editor-in-Chief of Oecologia

On behalf of all authors, I submit a manuscript entitled “**Haemosporidian taxonomic composition, network centrality and partner fidelity between resident and migratory avian hosts**” for publication in Oecologia.

Migration can modify interaction dynamics between hosts and parasites by, for example, dispersing parasites and impact their local community transmission. Thus, research on migrants and their parasites are fundamental to elucidate how migratory behavior can shape host-parasite interaction in nature. In this study, we investigate the role of migratory behavior on parasite taxonomic composition, network centrality and partner fidelity among resident and non-resident hosts using avian haemosporidians as study model. Using a large (~15200 birds) database on avian haemosporidian from South America, we ran phylogenetic Bayesian models and permutational multivariate analyses of variance to evaluate the influence of migratory behavior on parasite taxonomic composition, partner fidelity and network centrality. Our findings suggest that migration does not lead to differences in both parasite taxonomic composition or partner fidelity. On the other hand, since migratory behavior is positively associated with closeness centrality, migrants shall play more important roles in shaping host-parasite interactions and influence parasite transmission.

I believe that our findings will be of great interest to researchers in the areas of disease and community ecology in general. This article fulfills an important gap in our current knowledge of the role of migratory behavior and parasite-host interaction. Thus, Oecologia is an ideal journal to reach these investigators.

As potential reviewers, I would like to suggest:

1. Boris Krasnov, Ben-Gurion University of the Negev, Israel ([krasnov@bgu.ac.il](mailto:krasnov@bgu.ac.il))
2. Cristina Llopis-Belenguer, ETH Zurich, Switzerland (cristina.llopis.belenguer@gmail.com)
3. Karla Magalhães Campião, Universidade Federal do Paraná, Brazil (karla.campiao@ufpr.br)

I confirm that this manuscript presents original work and is not under consideration by any other journal.

Sincerely,

Daniela de Angeli Dutra