GUIDELINES FOR POSTER PRESENTERS

Presenters should note the following guidelines for electronic posters:

1. E-poster presentations are Power Point presentations with a maximum of 4 slides (landscape orientation) and at least 20 pt. Please build your presentation using the 16:9 (widescreen) format aspect ratio.

2. Subsequent slides should contain the following components:

   - 1 slide for Title, Introduction and Logo
   - 1 slide for Material-Methods
   - 2 slides for Results and Discussion

3. E-posters **(.ppt or .pptx format)** must be uploaded by **October 15**. Upload instructions will be forthcoming from our ISBR2021 secretariat.

*** For questions please send a mail to isbr2021@erzurum.edu.tr

Formatting Tips

- **The less the better**. Be clear and concise with poster design and content. Please avoid from overcrowding.
- Use fonts that are large enough (Minimum 20 pt.)
- Include the title and name(s) of the presenter(s) in a larger, bolder font than the rest of the poster.
- Illustrate labels or headings for each section of your presentation using contrast colors.
- Use high-quality graphics.
- Use **Times New Roman** as a font style.
- You can use university logos in the top of left or right corner.
- The names, surnames and addresses of all authors should be emphasized by **underlining the name of the corresponding author who will present the manuscript**.

** We have presented below a simple example of e-poster presentation screenshots using the former poster belonging to the members of Organization Committee. This example was prepared following the guidelines. **Personal design is fully free to shape background and the locations of texts and figures**. As an exception, you can use smaller fonts to type **References** and **Acknowledgements** sections.

Population Genetics of *Bufo bufo* Species in Turkey

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Introduction: *Bufo bufo* (Linnaeus, 1758) is a member of *Bufo bufo* species group distributed in the Western Palearctic (Fig 1) from most of Europe including northern and eastern France into Russia including toads from Great Britain, Scandinavia, Italy, the Balkans and the larger part of Turkey (Borkin and Veiht, 1997; Cadenovic et al., 2013). This widespread species is not well-studied in terms of population genetic in the borders of Turkey. In this study, it was aimed at handling population genetic structure of *B. bufo* in Turkey and illustrating genetic structure of populations with some gene markers.

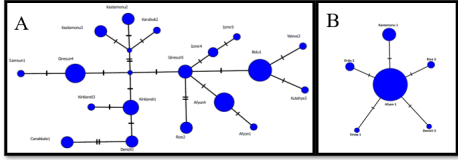**Figure 1.** Distribution map of *B. bufo* species (IUCN Red List, 2019)

Material and Methods:

- 60 individuals were sampled from 20 different provinces from Turkey (Fig 2).

- A portion of 544 bp of the mitochondrial 16 rRNA gene and 786 bp of the mitochondrial cyt-b genes were amplified.

- Purifcation of PCR products and sequencing was performed by Macrogen, Inc.

- By using the DnaSP version 6 software, haplotype diversity was calculated, haplotypes were determined for each gene and haplotype networks were created with PopART 1.7 software.

- Using the Arlequin version 3.5.1.3 software, the neutrality test and mismatch calculations for each gene were examined.

Figure 2. Sampling localities

Results and Discussion:

☑ As a result of the haplotype analysis, 18 haplotypes were obtanied for cytb gene and 6 haplotypes for 16s gene (Fig 3). Haplotype diversty of 16s and cytb genes was calculated 0.4011 and 0.9192, respectively.
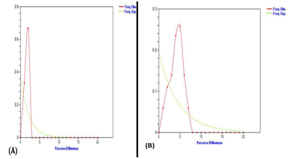
Figure 3. Haplotype networks: A) Cytb haplotypes ; B) 16S haplotypes

☑ As a result of the analysis of 16S and cytochrome *b* genes according to the Tajima D test, *B. bufo* populations showed a low variation ($P > 0.05$). In addition, negativity indicates an increase in *B. bufo* populations.

☑ According to Fu's Fs test, the cytochrome *b* gene shows the growth of *B. bufo* populations, and to be in the same gene pool ($P < 0.05$) (Table 1). According to the mismatch test, there was an expansion of *B. bufo* populations in terms of 16S gene ($P > 0.05$). The 16S and cytochrome *b* genes point out a uniform distribution of unimodal (single peak) for *B. bufo* populations.

Table 1. Test results

Genes	N	Fu's Fs	FS p-value	Tajima's D	Tajima's D p-value	SSD (P value)
16S	6	-4.89066	0.000	-1.33698	0.029	0.17813 (0.02)
Cytb	18	-16.5506	0.000	-1.42856	0.053	0.01114 (0.15)

Figure 4. Mismatch test results: A) 16S gene ; B) Cytb gene

☑ According to the mismatch test, there was an expansion of *B. bufo* populations in terms of 16S gene ($P > 0.05$). The 16S and cytochrome b genes point out a uniform distribution of unimodal (single peak) for *B. bufo* populations (Fig 4).

☑ In other words they indicate a rapid population growth from a single haplotype for *B. bufo* populations.

References

Borkin, L.J., Veith, M., 1997. *Bufo bufo* Linneaus, 1758. Atlas of Amphibians and Reptiles in Europe, 118-119

Cadenovic, N., Vukov, T., Popovic E., Ljubisavljevic, K., 2013. Morphological differentiation of the Common Toad *Bufo bufo* (Linnaeus, 1758) in the Central Part of the Balkan Peninsula. Archieves of Biological Sciences, 65(2), 685-695. DOI: 10.2298/ABS1302685C