COBLET2022

Istanbul

1st COLLOQUIUM ON BIOINFORMATICS LEARNING, EDUCATION AND TRAINING

In conjunction with 11th GOBLET ANNUAL GENERAL MEETING 2022

11-14th OCTOBER 2022

Bioinformatics Training and Education: Charting the Path Ahead

Hybrid

Lessons from a ten-year-long journey: building a student-driven computational biology society across Turkiye

*Yasin Kaya, Tülay Karakulak, Cemil Can Saylan, **E. Ravza Gür**, Engin Tatlıdil, Sevilay Güleşen, Fatma Betül Dinçaslan, Handan Melike Dönertaş*

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E. Ravza Gur
DPhil candidate

Center for Computational Biology
MRC Molecular Haematology Unit
MRC Weatherall Institute of Molecular Medicine
Radcliffe Department of Medicine
University of Oxford

Instructor at ERES Biotechnology

Twitter: ozturkravzae
LinkedIn: ravzagur
Instagram: biocomputationalist

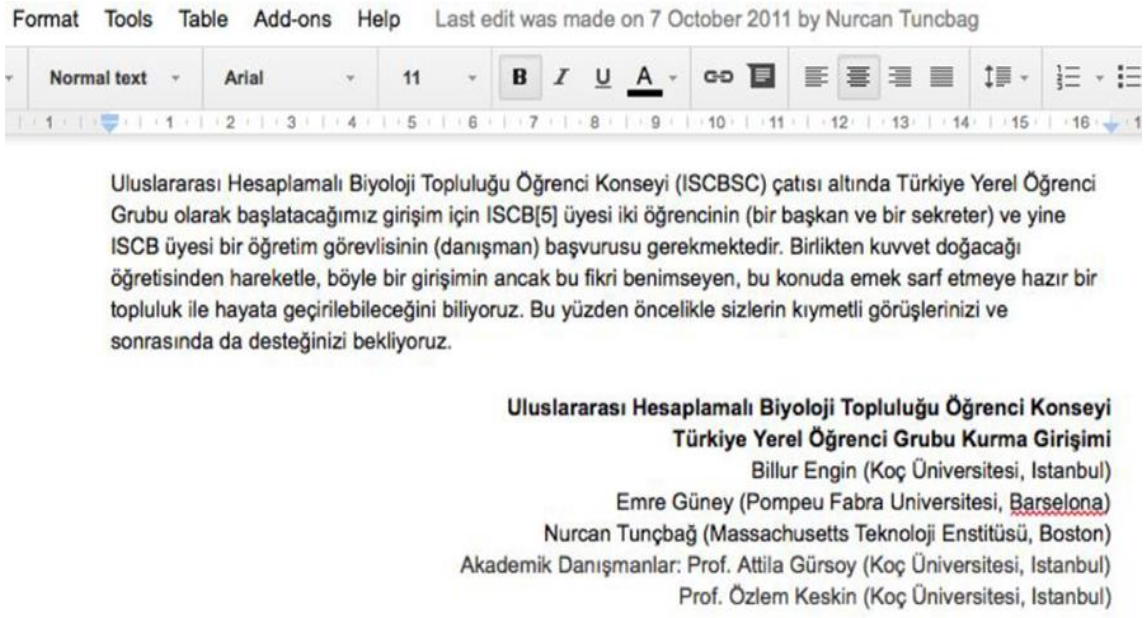
- Genome Biology Group
- Functional Genomics & Machine Learning Group

Who are we?

We are a student group in Turkiye affiliated with **the International Society for Computational Biology (ISCB).**

Who are we?

RSG-Turkiye was founded in 2011 by Dr Hatice Billur Engin, Dr Nurcan Tuncbağ and Dr Emre Güney.



Format Tools Table Add-ons Help Last edit was made on 7 October 2011 by Nurcan Tuncbag

Normal text | Arial | 11

Uluslararası Hesaplamalı Biyoloji Topluluğu Öğrenci Konseyi (ISCBSC) çatısı altında Türkiye Yerel Öğrenci Grubu olarak başlatacağımız girişim için ISCB[5] üyesi iki öğrencinin (bir başkan ve bir sekreter) ve yine ISCB üyesi bir öğretim görevlisinin (danışman) başvurusu gerekmektedir. Birlikten kuvvet doğacağı öğretisinden hareketle, böyle bir girişimin ancak bu fikri benimseyen, bu konuda emek sarf etmeye hazır bir topluluk ile hayata geçirilebileceğini biliyoruz. Bu yüzden öncelikle sizlerin kıymetli görüşlerinizi ve sonrasında da desteğinizi bekliyoruz.

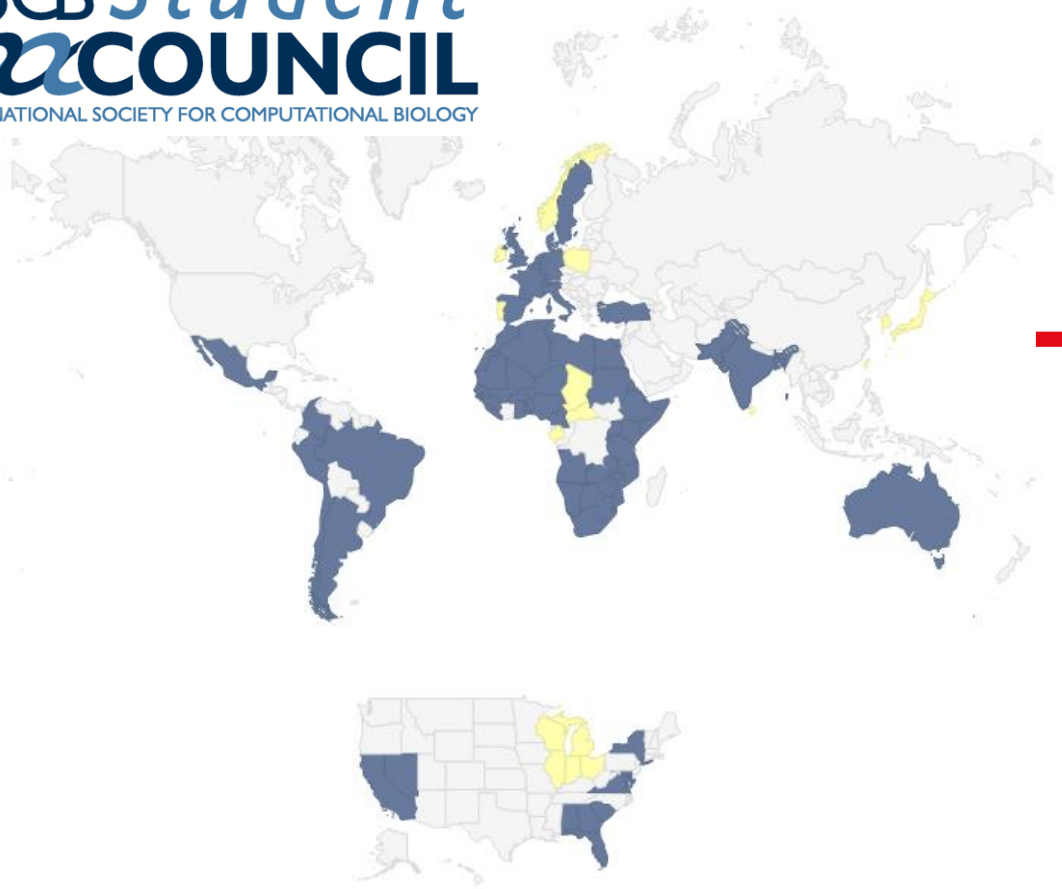
Uluslararası Hesaplamalı Biyoloji Topluluğu Öğrenci Konseyi
Türkiye Yerel Öğrenci Grubu Kurma Girişimi
Billur Engin (Koç Üniversitesi, Istanbul)
Emre Güney (Pompeu Fabra Universitesi, Barselona)
Nurcan Tunçbağ (Massachusetts Teknoloji Enstitüsü, Boston)
Akademik Danışmanlar: Prof. Attila Gürsoy (Koç Üniversitesi, Istanbul)
Prof. Özlem Keskin (Koç Üniversitesi, Istanbul)





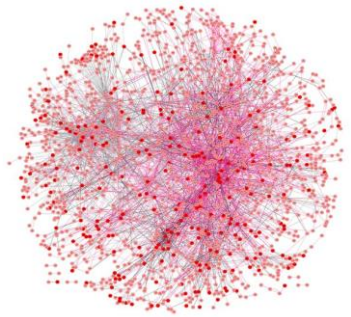
Who are we?

ISCB Student COUNCIL
INTERNATIONAL SOCIETY FOR COMPUTATIONAL BIOLOGY



- RSG Argentina
- RSG Belgium
- RSG California+Nevada
- RSG Denmark (CBioVikings)
- RSG France
- RSG Spain
- RSG Luxembourg
- RSG Netherlands
- RSG Mexico
- RSG Pakistan
- RSG Sri Lanka
- RSG Turkey
- RSG Western Africa
- RSG Southeastern USA
- RSG Australia (COMBINE)
- RSG Brazil
- RSG DC
- RSG Eastern Africa
- RSG Germany
- RSG Italy
- RSG Norway
- RSG Northern Africa
- RSG Chile
- RSG India
- RSG Switzerland
- RSG United Kingdom
- RSG Colombia
- RSG Peru

First Webinar



FREE ONLINE SEMINARS
FROM BIOINFORMATICS
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Bioinfonet is a Project of International Society for Computational Biology Regional Student Group Turkiye

ISCB-RSG TURKIYE

FOR A LIMITED NUMBER OF PARTICIPANTS!

28.08.2014
1:30pm (UTC+2),
12:30pm (CET)

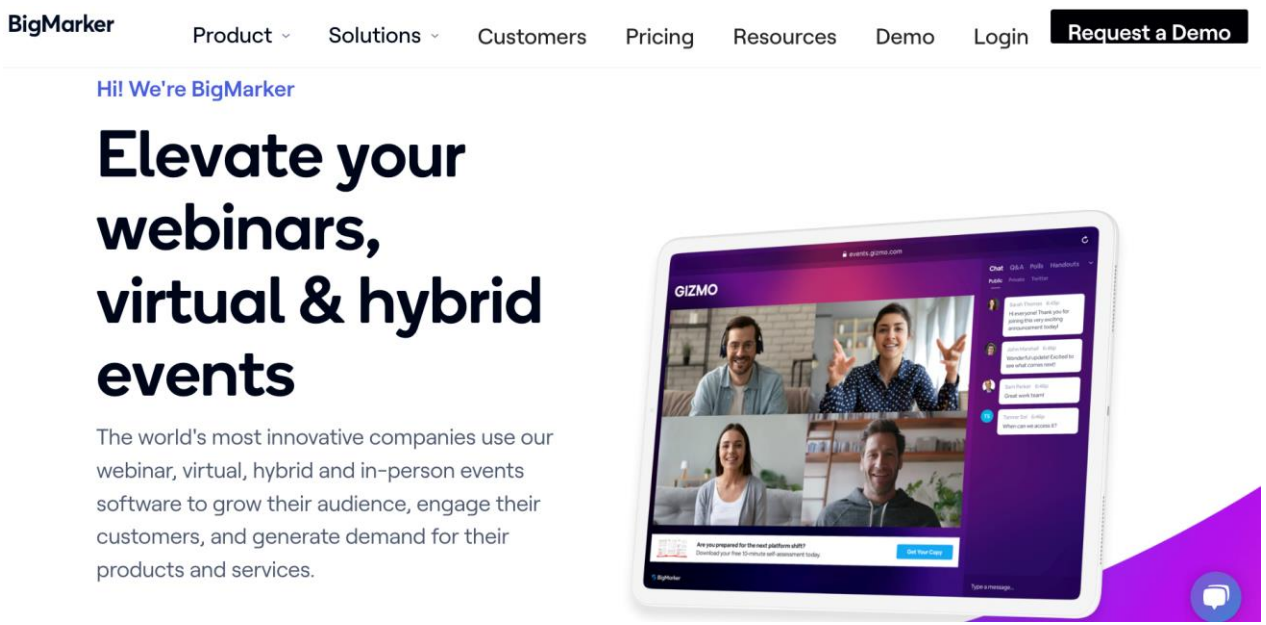
PLEASE
SEND US AN E-MAIL TO REGISTER!
RSG-TURKEY@ISCBSC.ORG

RECONSTRUCTION OF SIGNALING NETWORK TOPOLOGY FROM STEADY STATE AND DYNAMIC PERTURBATION DATA

ASSOC. PROF. DR. TOLGA CAN, METU, TURKIYE

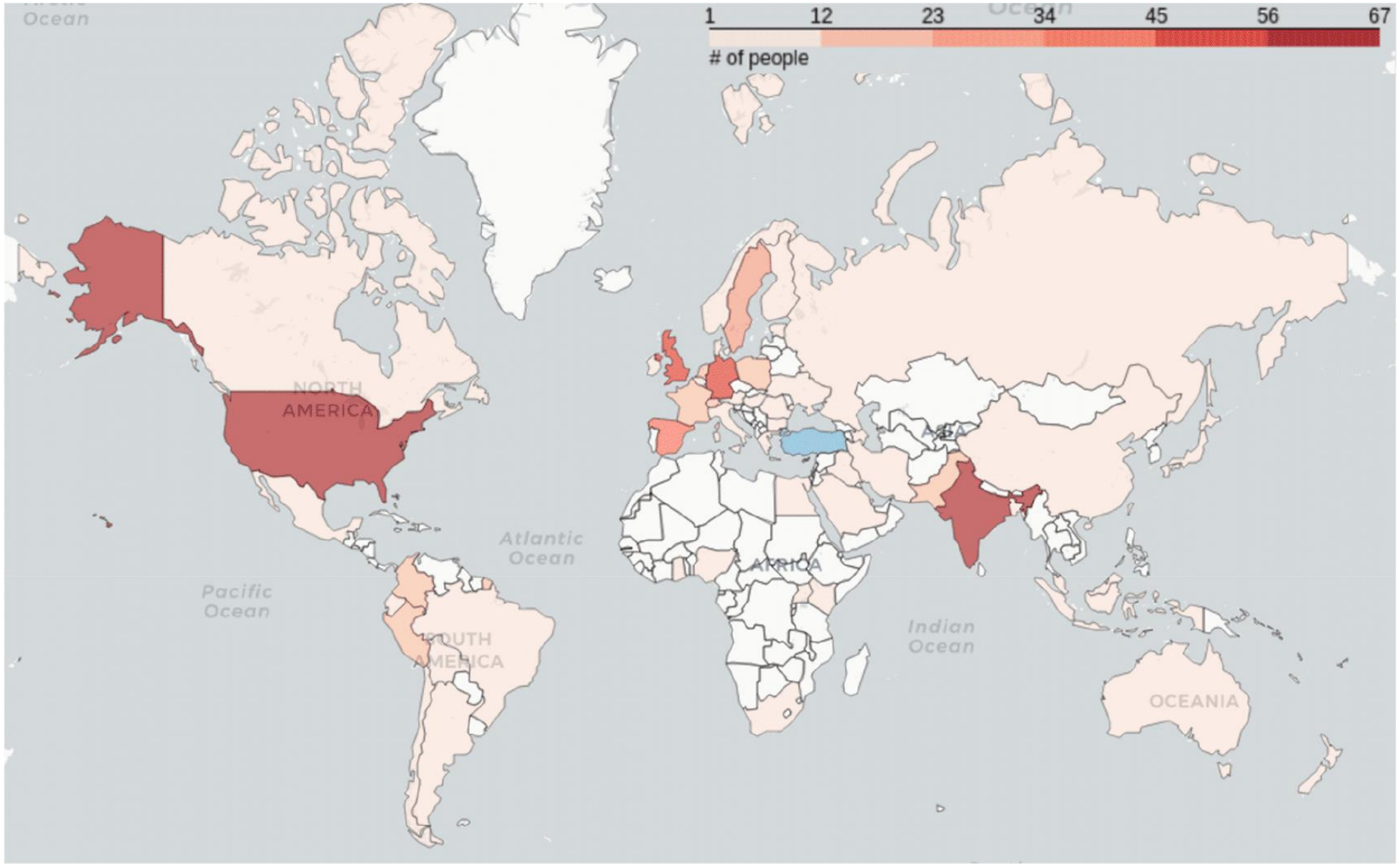
ABSTRACT: Given a set of proteins of interest in a signaling pathway, a common problem is to elucidate the signaling interactions and the dynamics ofthese interactions between these proteins. A first step towards anaccurate solution is to figure out the underlying network topology; before working out the details of the dynamics of these interactionsusing biochemistry or structural biology. Several experimental techniques, such as RNAi screens, are designed to infer the structure of signaling networks. Existing solutions, either manual or automated, usually suffer from the scalability problem: they are not practical for signaling networks containing more than 20-30 proteins. In our research group, we target this problem and have developed a couple of algorithms in the past to construct larger scale signaling networks. In my talk, I will first show that reconstructing signaling networks from perturbation data is indeed a difficult problem. I will then propose two heuristics to solve the problem approximately and showthat the approximate solutions are biologically acceptable. Finally, I will discuss our recent formulation which utilizes available time series data in reconstruction of the network topology. Our results show that, time series data is very valuable in scaling the solution easily to networks of larger sizes.

Cover Pic. LIU, G.; LI, D.Z.; JIANG, C.S. and WANG, W.. Transduction motif analysis of gastric cancer based on a human signaling network. *Braz J Med Biol Res* [online]. 2014, vol.47, n.5



1st Webinar in 2014

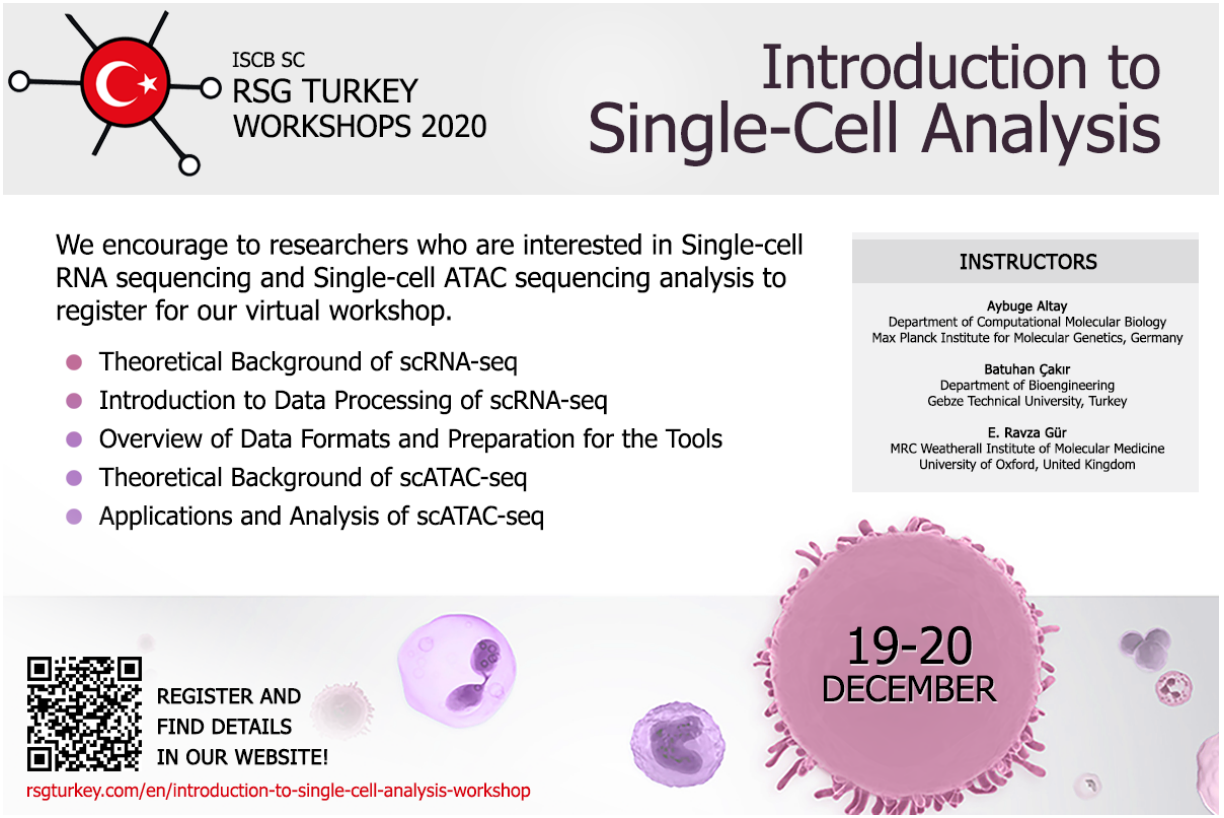
Webinars



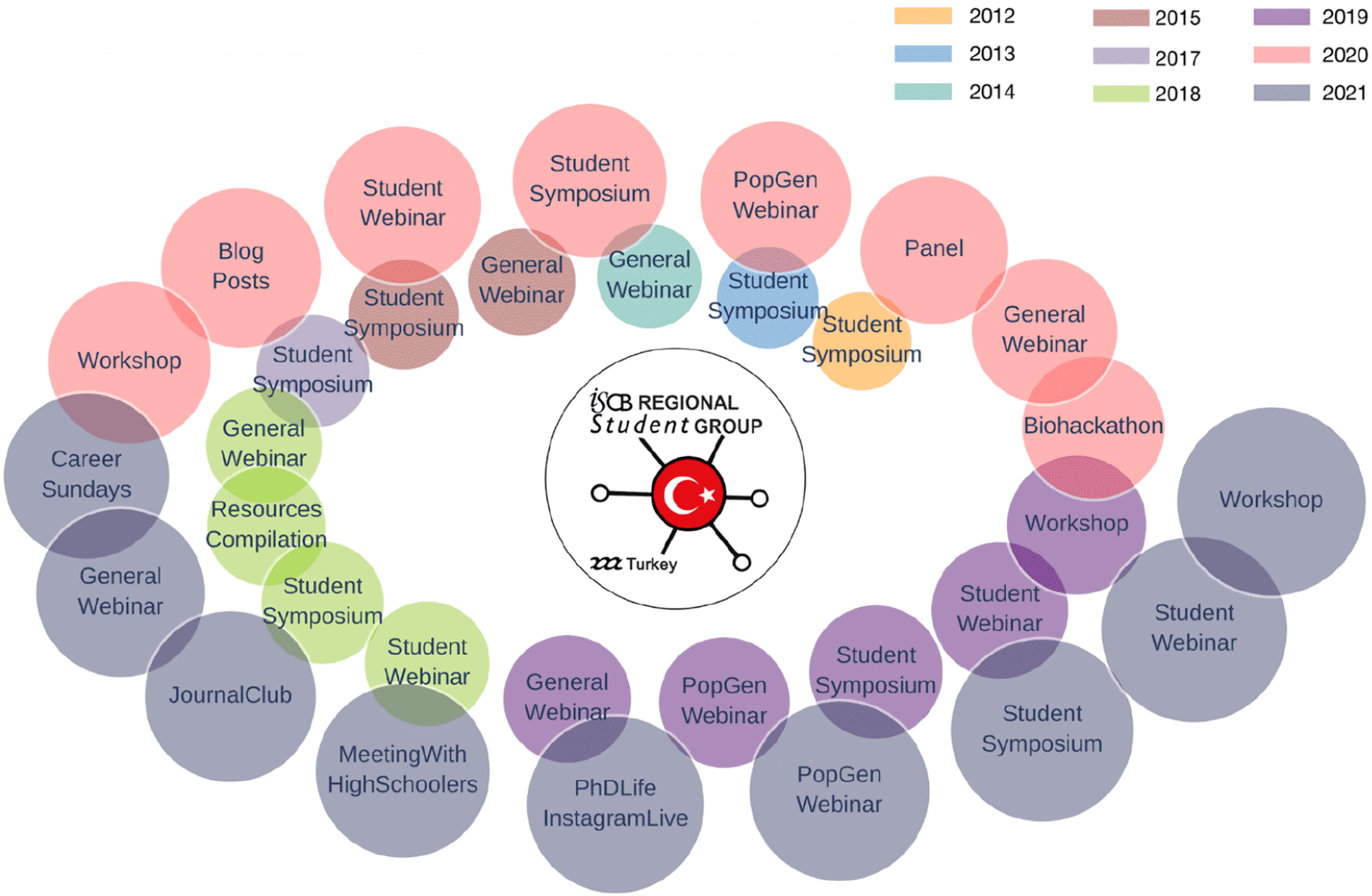
Distribution of people accessing RSG-Turkey webinar series worldwide.

Workshops


ISCB REGIONAL Student GROUP
Turkey
ankapy
SOVA
25-29 November 2019
Hacettepe University
Instructor: David Žihala
Registrations are open!
https://github.com/DavidZihala/AnkaPy
HACETTEPE UNIVERSITY
UNIVERSITY OF OSTRAVA
FACULTY OF SCIENCE


ISCB SC
RSG TURKEY
WORKSHOPS 2020
Introduction to Single-Cell Analysis
We encourage to researchers who are interested in Single-cell RNA sequencing and Single-cell ATAC sequencing analysis to register for our virtual workshop.
Theoretical Background of scRNA-seq
Introduction to Data Processing of scRNA-seq
Overview of Data Formats and Preparation for the Tools
Theoretical Background of scATAC-seq
Applications and Analysis of scATAC-seq
INSTRUCTORS
Aybuge Altay
Department of Computational Molecular Biology
Max Planck Institute for Molecular Genetics, Germany
Batuhan Çakır
Department of Bioengineering
Gebze Technical University, Turkey
E. Ravza Gür
MRC Weatherall Institute of Molecular Medicine
University of Oxford, United Kingdom
REGISTER AND FIND DETAILS IN OUR WEBSITE!
rsgturkey.com/en/introduction-to-single-cell-analysis-workshop
19-20 DECEMBER

Events



Main events and activities of RSG-Turkey across years.

ISCB REGIONAL Student GROUP

Turkey

ISCB-SC RSG Turkey Student Symposium | October 22 2022

Keynote Speakers

Yet another new era for transcriptomics: single-cell

Department of Bioengineering
Ege University

Dr. Yasin Kaymaz

Sex differences in vaccine responses

The Jackson Laboratory for Genomic Medicine (JAX-GM)

Assoc. Prof.Duygu Uçar

Toward understanding disease gene function with single-cell genomics and machine learning

Genentech / Roche

Dr. Gökçen Eraslan

Essential Guide for Graduates

A. Dilan Kıran
Ege University

Sevilay Güleşen
Leipzig University

E. Ravza Gür
Oxford University

Engin Tatlıdil
RSG Turkey

Nilay Yönet
Yıldız Technical University

Alperen Taciroğlu
Middle East Technical University

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For registration:
https://symposium.rsgturkey.com/

EDITORIAL

Lessons from a ten-year-long journey: building a student-driven computational biology society across Turkey [version 1; peer review: not peer reviewed]

Yasin Kaya [1], Tülay Karakulak[2,3], Cemil Can Saylan[4], E. Ravza Gür[5,6], Engin Tatlıdil[7], Sevilay Güleşen [8], Fatma Betül Dinçaslan[9,10], Handan Melike Dönertaş [11]

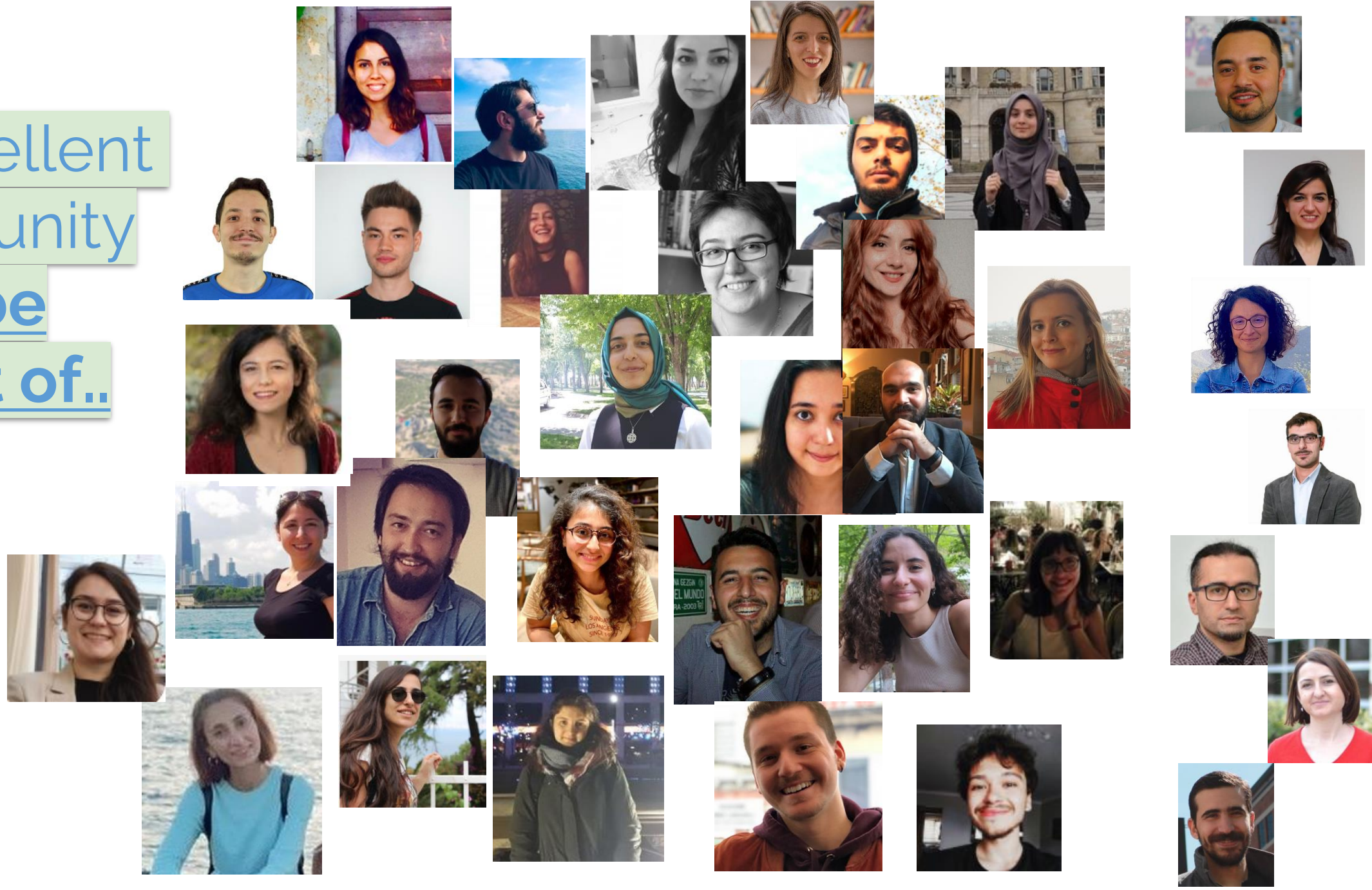
Author details

This article is included in the Bioinformatics gateway.

Abstract

The Regional Student Group Turkey (RSG-Turkey) is officially associated with the International Society for Computational Biology (ISCB) Student Council (SC). At the RSG-Turkey, we aim to contribute to the early-career researchers in computational biology and bioinformatics fields by providing opportunities for improving their academic and technical skills in the field. Over the last ten years, we have built a well-known student-driven academic society in Turkey that organizes numerous events every year and continues to grow with over 650 current members. Celebrating the 10th anniversary of RSG-Turkey, in this communication, we share our experiences, five main lessons we learned, and the steps to establish a long-standing academic community: having a clear mission, building a robust structure, effective communication, turning challenges into opportunities, and building collaborations. We believe that our experiences can help students and academics establish long-standing communities in fast-developing areas like bioinformatics.

An excellent community **to be a part of..**



To join:
https://rsgturkey.com/en/membership/

For more information

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