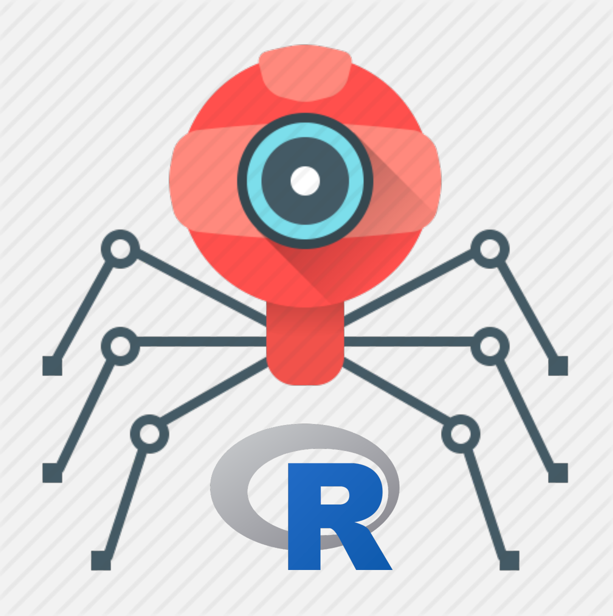
CS636 Data Analytics with R Program
Prof. Zhi Wei



CS636 Data Analytics with R Program

Project 1

By
Group 6

Duyen Ngyen | Bicheng Xiao | Shubham Gulia

Scope of the project

Use R program to extract required information from specified website

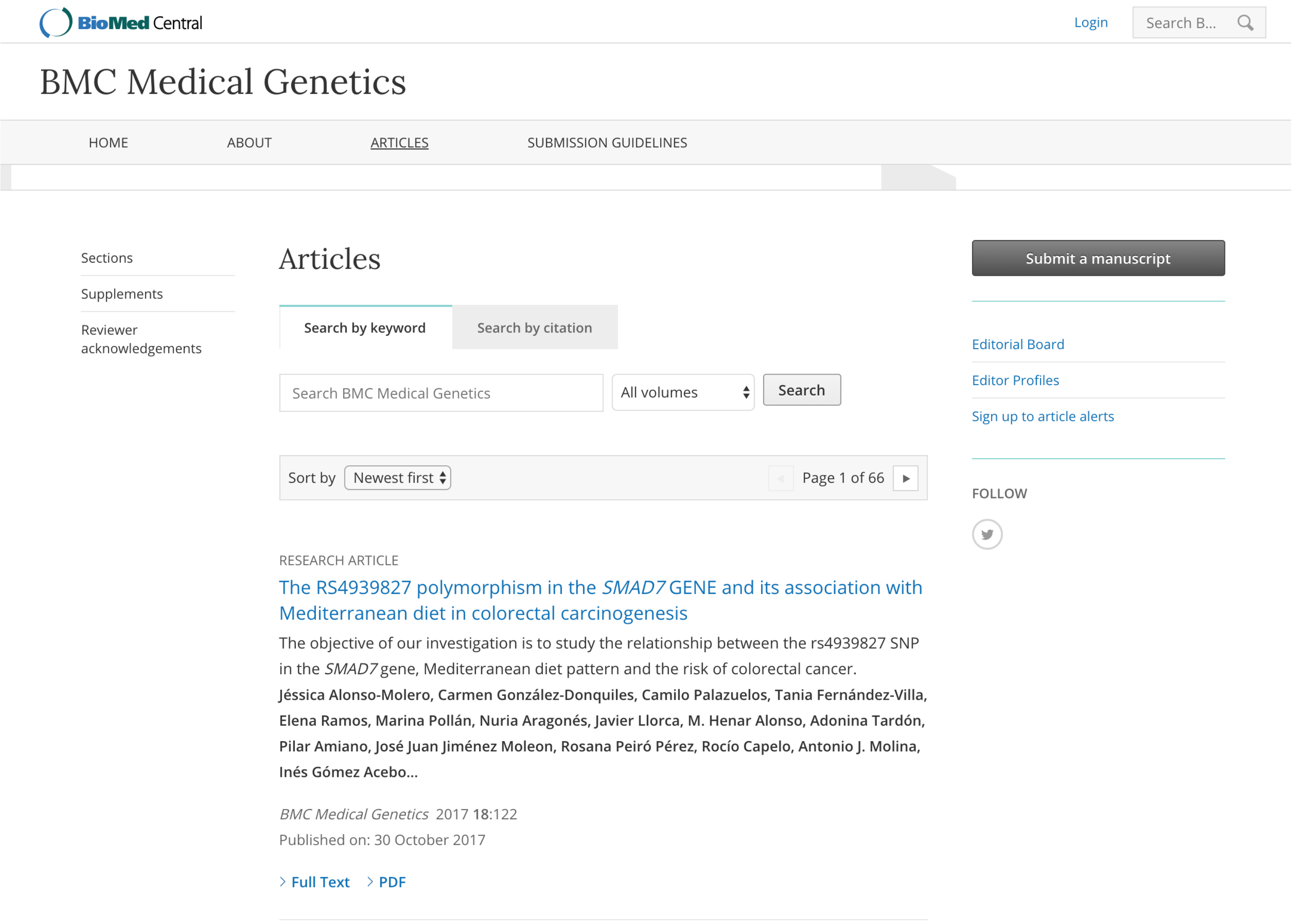
Main page: https://bmcmedgenet.biomedcentral.com

Total articles: 1642

Required information:

10 fields:

DOI, Title, Authors, Author Affiliations, Corresponding Author, Corresponding Author's Email, Publication Date, Abstract, Keywords, Full Text (Textual format)



BMC Medical Genetics

Articles

RESEARCH ARTICLE

The RS4939827 polymorphism in the *SMAD7* GENE and its association with Mediterranean diet in colorectal carcinogenesis

The objective of our investigation is to study the relationship between the rs4939827 SNP in the *SMAD7* gene, Mediterranean diet pattern and the risk of colorectal cancer.

Jéssica Alonso-Molero, Carmen González-Donquiles, Camilo Palazuelos, Tania Fernández-Villa, Elena Ramos, Marina Pollán, Nuria Aragonés, Javier Llorca, M. Henar Alonso, Adonina Tardón, Pilar Amiano, José Juan Jiménez Moleon, Rosana Peiró Pérez, Rocío Capelo, Antonio J. Molina, Inés Gómez Acebo...

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Contribution of group members

Bicheng Xiao	main program: (loadAllArticles.R) Functions(util.R): • analysisArticle • extractAuthors • extractAffliation	Testing and debugging Project report(PDF file)
Duyen Ngyen	Function(util.R): • loadArticleList	Testing and debugging Readme.txt
Shubham Gulia	Function(util.R): • extract • extracAttribute	Testing and debugging ReadTheResult.R

Challenges

unfamiliar with R packages, like XML	Check the online document and samples
extract author, corresponding author, corresponding author’s email	• Carefully check the HTML of the article page and find the xpath • Use a 2nd time extraction to get more detailed or related data

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NJIT New Jersey Institute of Technology

Thank you