



WIKIMEDIA
TN User Group



WIKI PROJECT MED IN TUNISIA

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Wikimedia TN User Group

Wiki Project Med

Since March 19, 2009 - Ten years of work

INTRODUCTION

- ◉ Medical education in Tunisia has evolved a lot during the last 55 years. Nowadays, there are four faculties of medicine, one faculty of dental medicine and one faculty of pharmacy in Tunisia.
- ◉ As Wikipedia and other wikis have been proved as effective in ameliorating the quality of medical education and practice in many countries, this is also applicable in Tunisia.
- ◉ That is why Wikimedia TN User Group have conducted an initiative since 2015 to promote the usage and adjustment of Wikipedia and other wikis by medical scientists, physicians, dentists, pharmacists and medical students.

TEAM



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TEAM ADVISORS

- ◉ Dr. Helmi Hamdi (Wikimedia TN User Group)
- ◉ Dr. Thomas Shafee (La Trobe University)
- ◉ Dr. Daniel Mietchen (University of Virginia)
- ◉ Dr. Diptanshu Das (Institute of Neurosciences Kolkata)
- ◉ Mr. Mounir Touzri (Arabic Wikipedia)
- ◉ Dr. Mohamed Ali Hadj Taieb (University of Sfax)
- ◉ Dr. Mohamed Ben Aouicha (University of Sfax)

FIRST WORKS: MEDICAL WIKIPEDIA

- ◉ Since 2016, we tried to organize many Wikipedia edit-a-thons to convince medical students to contribute to Wikipedia and other wikis even as IP editors.
- ◉ We failed for many reasons
 - Tunisian medical students have a full schedule and cannot consequently edit Wikipedia on a regular basis.
 - Medical students are required to be absolutely invested in medical education and to have limited extracurricular activities.
- ◉ Due to these reasons, we also could not regularly contribute to Medical Wikipedia.
- ◉ We decided to drop the project as it is unfortunately difficult to be applied in Tunisia in its current format.

FIRST WORKS: MEDICAL WIKIPEDIA

- Although these significant failures, we succeeded to let medical students and scientists from the six Tunisian biomedical faculties use Wikipedia in a regular basis for their practice and education.
- Nowadays, the Medical Wikipedia mobile app is mostly used by medical students in the six Tunisian biomedical faculties.

BIOGRAPHIES OF TUNISIAN LEADING MEDICAL SCIENTISTS

- ◉ As leading medical scientists in Tunisia are underrepresented in Internet, we decided to create non-stub Wikipedia biographies about them in the French Wikipedia.
- ◉ We used for that online resources and offline resources available in the libraries of the Tunisian biomedical faculties.
- ◉ After years of work, we succeeded to ameliorate the coverage of leading biomedical scientists of Tunisia in Wikipedia.

BIOGRAPHIES OF TUNISIAN LEADING MEDICAL SCIENTISTS

- Samples of our non-stub biographies:
 - https://fr.wikipedia.org/wiki/Faiez_Zannad
 - https://fr.wikipedia.org/wiki/Mongi_Ben_Hamida
 - https://fr.wikipedia.org/wiki/Mohamed_El_Kassab
 - https://fr.wikipedia.org/wiki/Radhi_Jazi
- In the next years, we are managing to include the biographies of the 100 leading Tunisian biomedical scientists in the French Wikipedia
- After that, we will use these biographies to integrate major Tunisian biomedical discoveries in Medical Wikipedia.

WIKI PROJECT MED RESEARCH BIBLIOGRAPHY

- ◉ To give an idea about the research efforts about Wikis in medicine, we created an exhaustive list of research outputs related to the work of Wiki Project Med.
- ◉ This list is available in https://meta.wikimedia.org/wiki/Wiki_Project_Med/Research.
- ◉ This list is updated each July.

WIKIDATA IN MEDICINE



- Currently, a high-scale, structured and machine readable representation of the sum of all medical knowledge is needed for the automation of a variety of medical tasks such as biomedical question answering, clinical decision support and the identification of drug-drug interactions. This representation is called a biomedical ontology.
- As Wikidata is a structured and high-scale knowledgebase including the sum of all human knowledge, it can be used as a biomedical ontology.

WIKIDATA IN MEDICINE

- Consequently, we decided to participate to the ongoing efforts of turning Wikidata into the most complete biomedical ontology through a program entitled *Wikidata in Medicine*. The program consists of four units:
 - *Unit 1: Describing the features and characteristics of Wikidata as a high-scale biomedical ontology and identify its limitations.*
 - *Unit 2: Create automated algorithms to solve the limitations of Wikidata as a biomedical ontology*
 - *Unit 3: Manually verifying and enriching Medical information in Wikidata*
 - *Unit 4: Medical applications of Wikidata*

WIKIDATA IN MEDICINE

- ◉ We already finished our work on Unit 1 thanks to the significant contributions of Dr. Thomas Shafee, Dr. Dīptanshu Das and Dr. Denny Vrandecic among others. Our results are now under review by the prestigious editors of Journal of Biomedical Informatics.
- ◉ We are now beginning our work on Unit 2 and will finish it by July 2019. Our first work will deal with a PubMed-based computer program that verifies unsupported Wikidata biomedical statements and adds quality references to them. We have to thank Dr. Daniel Mietchen for his comments to us that significantly contributed to the amelioration of our results.
- ◉ Concerning Unit 3 and Unit 4, we are now just doing Wikidata and Wikidata query service trainings for computer science professors and medical professors from the University of Sfax. Once this process is finished, we will begin our work on the two remaining units.