Dhafer Malouche, Ph.D., Professor of Statistics

Qatar University

dhafer.malouche@qu.edu.qa
https://dhafermalouche.net/, http://qufaculty.qu.edu.qa/dhafermalouche/
https://github.com/malouche
Google scholar page

Employment History

August 2022 – · · · · · ·
Qatar University, Professor of Statistics, Department of Mathematics, Statistics, and Physics, College of Arts and Sciences.
Teaching (2022-2023): Introduction to Statistics, Stochastic Processes, Bayesian Statistics, Multivariate Analysis, Actuarial Statistics I&II.
Teaching (2023-2024): Introduction to Statistics, Stochastic Processes, Actuarial Statistics I&II, Statistical Computation and Simulation, Advanced Biostatistics (For Ph.D. Candidates), Critical Thinking (Honors Program).

July 2021 – July 2022
The American University in Cairo, Professor of Statistics, Department of Mathematics and Actuarial Science, School of Sciences and Engineering. **Teaching:** Statistical Inference, Introduction to Statistics, Data Science with Python

10/2020 - 12/2022
Covidradar24.org and **Rosettahub.com**, Data analyst master contributor in a real time COVID-19 tracking data science platform.

05/2020 - 05/2021
World Health Organization, Tunisia Senior data analyst consultant, Measuring the impact of the COVID 19 pandemic on psychiatric needs of the general population in Tunisia, data collected from a hot line accessible throughout the country, including those without access to Internet.

August 2020 – August 2022
Fellow member at the **Pan-African Scientific Research Council**

05/2020 - 01/2021
WARC, Africa, Sierra Leone Data analyst consultant, Setting up an online daily data monitoring platform for a survey implemented in Sierra Lean.

2003 – · · · ·
University of Carthage, Ecole Supérieure de la Statistique et de l'Analyse de l'Information, Tunis, Tunisia
Positions: Professor (from 2018), Associate Professor (2011-2018), Assistant Professor (2003-2011).
Teaching: Data Analysis: Principal Component Analysis, Correspondence Analysis, and Multiple Correspondence Analysis, Theory and Practice with `R`, Mathematical Statistics: Statistical Inference, Hypothesis Testing, Regression Analysis, Theory and Practice with `R`, Data Mining and Practice with `R`, Bayesian Statistics with `OpenBugs/Winbugs/RStan/Jags`, Time Series: ARMA and SARIMA Processes, Theory and Practice with `R/Python`, Big Data: Large Data with `R/Python`, `SQL`, `Spark`, `H2O`, Advanced `R/Python`: Data Management, Data Visualization, Dashboards, Shiny Apps, Heroku Apps, Bokeh.
Research: Supervising 5 Ph.D.: Detection and classification of swallowing sound, Sensory Analysis, Genetics, Zoonotic cutaneous leishmaniasis incidence, Cardiovascular risk factor. Supervising Master and Engineering Thesis on several topics related to applied statistics and data science.
Administration: Director of the Department of Statistics (2004-2007)

Employment History (continued)

2014 – 2019 **Yale University,** Whitney and Betty MacMillan Center for International and Area Studies and the Department of Statistics and Data Science, New Haven, USA.
Positions: Visiting Associate Professor (2014), Consulting on several projects with Yale Scholars (2015-2018), Associate Research Scholar (2019).
Missions: Democratic Transition in Tunisia, Governance and Local Development: Implementing two face-to-face surveys in Tunisia, G-econ team on building local GDP data,Teaching Time Series with `R/Python Course`.

2016 – 2017 **University of Michigan**, Center for Political Studies of the Institute for Social Research, Ann Arbor, USA.
Position: Visiting Fulbright Scholar.
Role: Research: Working on Data Quality, Survey Methodology, Interviewer Effect, Teaching: 4 Lectures on Applied graphical Models, 1 Lecture on Data visualization with `R`, 1 Lecture on Sensory Analysis.

2011 **Stanford University**, Department of Statistics, Palo alto, USA.
Position: Visiting Fulbright Scholar.
Role: Research on Graphical Models, Faithfulness assumption, and Covariance graphs.

2002 – 2003 **York University**, Department of Statistics, Toronto, Canada.
Position: Visiting Assistant Professor,
Teaching: Applied Regression Models with SAS, Introduction to the theory of probability, Introduction to Statistics with Minitab,
Research: Monte Carlo Methods and Bayesian Estimation of the Graphical Models.

1998 – 2002 **University of Sousse** , Institut Préparatoire aux Ecoles d'Ingénieurs, Sousse, Tunis.
Teaching: Analysis, Calculus, Algebra
Research: Natural Exponential Families, Pick functions, Markov Chains.
Administration: Director of the Department of Mathematics

Education

Sept 2009 **Habilitation *(Tenure)*, Statistics, Université de Tunis El Manar** Ecole National d'Ingénieurs de Tunis, Tunisia.
Thesis title: *Problèmes autour de la probabilité et de la statistique: Méthodes et Applications.*
Dissertation: `https://malouche.github.io/myCV/reports.html`

October 1997 **Doctorate, *(Ph.D.)*, Statistics, Paul Sabatier University,** Toulouse, France.
Thesis title: *Classification des familles exponentielles associées à des fonctions Pick*.
Dissertation: `https://malouche.github.io/myCV/reports.html`

1993–1994 **Master's Degree (D.E.A), Paul Sabatier University, Applied Mathematics, Statistics**

1989 – 1993 **Bachelor (Maîtrise)**, Ecole Normale Supérieure de Bizerte, Tunisia.

Supervised Ph.D.

2019-06-28 Statistical treatment of NGS results from IMGT/HighV-QUEST of antigen receptors (immunoglobulins and T receptors): methodology and visualization, Student: Safa AOUINTI

2019-06-22 Spatio-Temporal Modeling of Zoonotic Cutaneous Leishmaniasis (ZCL) in Central Tunisia, Student: Khouloud JEBBARI

Supervised Ph.D. (continued)

2019-05-21 Preliminary study on the detection and classification of swallowing sounds, Student: Hajer KHLAIFI

2019-02-14 Modeling the Tunisian Burden of Cardiovascular Diseases and Diabetes, Student: Olfa SAIDI

2018-07-02 Statistical methods for sensory and consumer data mapping, Student: Ibtihel REBHI

Skills

Languages Strong reading, writing and speaking competencies for English, French, and Arabic.

Coding Python, R, TABLEAU, SPARK, H2O, Shiny, LaTeX, ...

Misc. Quantitative research, Project management, Qualitative research, Data Mining, Machine Learning, Big Data, Academic research, Teaching, training, consultation, LaTeX typesetting and publishing.

Grants

2024-2025 **Autoimmune disorders profile pre and post-COVID era:** Research on the prevalence and management of autoimmune diseases in Qatar using advanced data analysis techniques to develop prognostic models and inform public health policies, based on Qatar Biobank data from 2015-2023.

Investigating Gender Disparities in Quality of Life Across the Qatari Population: Research project analyzing health-related quality of life (HRQOL) disparities in Qatar, focusing on gender differences using data from the Qatar Bio Bank. The project utilizes advanced machine learning to inform public health policies and reduce health inequalities, contributing significantly to both local and global academic and practical health initiatives.

Fall 2024 **Detecting the Undetectable: A Study on AI Tool Efficacy in Academic Writing:** Research project evaluating the efficacy of AI detection tools in identifying AI-generated text in academic settings, aiming to enhance academic integrity policies at Qatar University.

Papers

Research interests: Graphical models, Public health, COVID-19, Research and development, Well being, Survey methodology, Data quality, Consumer preferences, Genetics, Gender Diversity.

Research papers

1. Gad, A., Malouche, D., Chhabra, M., Hoang, D., Suk, D., Ron, N., ... Elmakaty, I. (2024). Impact of birth weight to placental weight ratio and other perinatal risk factors on left ventricular dimensions in newborns: A prospective cohort analysis. *Journal of Perinatal Medicine*. [Q2]. doi:doi:10.1515/jpm-2023-0384
2. Khalil, H., Malouche, D., Al Marri, D., Shoukry, M., Shehabi, M., Yahia, R., ... El-Salim, K. (2024). 10. the comparative ability of five mobility and balance outcome measures in predicting the risk of falls in people with multiple sclerosis. *Multiple Sclerosis and Related Disorders*, *92*, 105971. [Q2]. doi:https://doi.org/10.1016/j.msard.2024.105971
3. Khalil, H., Malouche, D., Kanaan, S., Al-Sharman, A., & El-Salim, K. (2024). 138. factors affecting the quality of sleep and physical activity participation of multiple sclerosis (ms) patients: A path analysis. *Multiple Sclerosis and Related Disorders*, *92*, 106099. [Q2]. doi:https://doi.org/10.1016/j.msard.2024.106099
4. Losada-Echeberría, M., Naranjo, G., Malouche, D., Taamalli, A., Barrajón-Catalán, E., & Micol, V. (2023). Influence of drying temperature and harvesting season on phenolic content and antioxidant and antiproliferative activities of olive (olea europaea) leaf extracts. *International Journal of Molecular Sciences, 24*(1). [Q1]. doi:10.3390/ijms24010054
5. Malouche, D. (2023). Describing conditional independence statements using undirected graphs. *Axioms*, *12*(12). [Q2]. Retrieved from https://www.mdpi.com/2075-1680/12/12/1109

6. Rebhi, I., & Malouche, D. (2023). Sensmap r package and sensmapgui shiny web application for sensory and consumer data mapping: Variations on external preference mapping and stability assessment. *Journal of Sensory Studies*. [Q3]. doi:http://doi.org/10.1111/joss.12809. eprint: https://onlinelibrary.wiley.com/doi/10.1111/joss.12809

7. Ben-Hassine, K., Taamalli, A., Rezig, L., Yangui, I., Benincasa, C., Malouche, D., … Mnif, W. (2022). Effect of processing technology on chemical, sensory, and consumers' hedonic rating of seven olive oil varieties. *Food Science & Nutrition*. [Q1]. doi:https://doi.org/10.1002/fsn3.2717. eprint: https://onlinelibrary.wiley.com/doi/pdf/10.1002/fsn3.2717

8. Ben-Hassine, K., Yangui, I., Mnif, W., Taamalli, A., Benincasa, C., Kamoun, N., & Malouche, D. (2022). Chemometric analysis and physicochemical composition of foreign and tunisian olive oil: Consumer preferences. *Journal of Food Quality, vol. 2022, Article ID 3981028*, 10 pages. [Q2]. Retrieved from https://doi.org/10.1155/2022/3981028

9. Malouche, D. (2022). Implication of faithfulness assumption. *Sankhyā B : The Indian Journal of Statistics*. [Q4]. Retrieved from https://doi.org/10.1007/s13571-021-00271-0

10. Saidi, O., Malouche, D., Saksena, P., Arfaoui, L., Talmoudi, K., Hchaichi, A., … Ben Alaya, N. (2020). Impact of contact tracing, respect of isolation and lockdown in reducing the number of cases infected with covid-19: Case study: Tunisia's response from march 22 to 04 may 2020. *International Journal of Infectious Diseases*. [Q1]. Retrieved from https://doi.org/10.1016/j.ijid.2021.02.010

11. Kongbonga, G. Y. M., Hassine, K. B., Ghalila, H., Malouche, D. et al. (2019). Front-face fluorescence using uv-led coupled to usb spectrometer to discriminate between virgin olive oil from two cultivars. *Food and Nutrition Sciences*, *10*(02), 119. [Q2]. Retrieved from http://www.scirp.org/journal/PaperInformation.aspx?PaperID=90405&#abstract

12. Mekki, I., Malouche, D., Smeti, S., Hajji, H., Mahouachi, M., M, E., & Atti, N. (2019). Study of the breeding systems of sheeps in the montagnous area of north-western tunisia. *Livestock Research for Rural Development*, *31*(108). [Q3]. Retrieved from http://www.lrrd.org/lrrd31/7/ilyes31108.html

13. Saidi, O., Hajjem, S., Zoghlami, N., Aounallah-Skhiri, H., Mansour, N. B., Hsairi, M., … O'Flaherty, M. et al. (2019). Premature mortality attributable to smoking among tunisian men in 2009. *Tobacco induced diseases*, *17*. [Q1]. Retrieved from https://dx.doi.org/10.18332%2Ftid%2F112666

14. Saidi, O., O'Flaherty, M., Zoghlami, N., Malouche, D., Capewell, S., Critchley, J. A., … Guzman Castillo, M. (2019). Comparing strategies to prevent stroke and ischemic heart disease in the tunisian population: Markov modeling approach using a comprehensive sensitivity analysis algorithm. *Computational and mathematical methods in medicine*, *2019*. [Q2]. Retrieved from https://doi.org/10.1155/2019/2123079

15. Saidi, O., Zoghlami, N., Bennett, K. E., Mosquera, P. A., Malouche, D., Capewell, S., … O'Flaherty, M. (2019). Explaining income-related inequalities in cardiovascular risk factors in tunisian adults during the last decade: Comparison of sensitivity analysis of logistic regression and wagstaff decomposition analysis. *International journal for equity in health*, *18*(1), 177. [Q1]. Retrieved from https://equityhealthj.biomedcentral.com/articles/10.1186/s12939-019-1047-6

16. Salem, S., Malouche, D., & Romdhane, H. B. (2019). Tunisian population quality of life: A general analysis using sf-36. *Eastern Mediterranean Health Journal*, *25*(9). [Q3]. Retrieved from https://apps.who.int/iris/bitstream/handle/10665/333459/10203397192509-eng.pdf#page=23

17. Khlaifi, H., Istrate, D., Demongeot, J., & Malouche, D. (2018). Swallowing sound recognition at home using gmm. *IRBM*, *39*(6), 407–412. [Q4]. doi:https://doi.org/10.1016/j.irbm.2018.10.009

18. Benstead, L. J., Kao, K., Landry, P. F., Lust, E. M., & Malouche, D. (2017). Using tablet computers to implement surveys in challenging environments. *Survey Practice*, *10*(2), 1–9. [Q1]. Retrieved from https://doi.org/10.29115/SP-2017-0009

19. Rebhi, I., & Malouche, D. (2017a). An approach for external preference mapping improvement by denoising consumer rating data. *International Journal of Advanced Computer science and Applications*, *8*(12), 500–508. [Q3]. Retrieved from https://doi.org/10.14569/IJACSA.2017.081266

20. Rebhi, I., & Malouche, D. (2017b). Decision making about products development through consumer preferences modeling based on descriptive characteristics of products. *IEEE/ACS 14th International Conference on Computer Systems and Applications (AICCSA)*, 423–430. Retrieved from https://doi.org/10.1109/AICCSA.2017.202

21. Talmoudi, K., Bellali, H., Ben-Alaya, N., Saez, M., Malouche, D., & Chahed, M. K. (2017a). Comparative performance analysis for generalized additive and generalized linear modeling in epidemiology. *International Journal of Advanced Computer Science and Applications*, *8*(12). [Q3]. doi:10.14569/IJACSA.2017.081255

22 Talmoudi, K., Bellali, H., Ben-Alaya, N., Saez, M., Malouche, D., & Chahed, M. K. (2017b). Modeling zoonotic cutaneous leishmaniasis incidence in central tunisia from 2009-2015: Forecasting models using climate variables as predictors. *PLoS neglected tropical diseases*, *11*(8), e0005844. [Q1]. Retrieved from https://doi.org/10.1371/journal.pntd.0005844

23 Triki, H. Z., Laabir, M., Lafabrie, C., Malouche, D., Bancon-Montigny, C., Gonzalez, C., … Daly-Yahia, O. K. (2017). Do the levels of industrial pollutants influence the distribution and abundance of dinoflagellate cysts in the recently-deposited sediment of a mediterranean coastal ecosystem? *Science of the Total Environment*, *595*, 380–392. [Q1]. Retrieved from https://doi.org/10.1016/j.scitotenv.2017.03.183

24 Aouinti, S., Giudicelli, V., Duroux, P., Malouche, D., Kossida, S., & Lefranc, M.-P. (2016). Imgt/statclonotype for pairwise evaluation and visualization of ngs ig and tr imgt clonotype (aa) diversity or expression from imgt/highv-quest. *Frontiers in immunology*, *7*, 339. [Q1]. Retrieved from https://doi.org/10.3389/fimmu.2016.00339

25 Aouinti, S., Malouche, D., Giudicelli, V., Kossida, S., & Lefranc, M.-P. (2016). Correction: Imgt/highv-quest statistical significance of imgt clonotype (aa) diversity per gene for standardized comparisons of next generation sequencing immunoprofiles of immunoglobulins and t cell receptors. *PloS one*, *11*(1), e0146702. Retrieved from https://doi.org/10.1371/journal.pone.0146702

26 Kerfai, N., Bejar Ghadhab, B., & Malouche, D. (2016). Performance measurement and quality costing in tunisian manufacturing companies. *The TQM Journal*, *28*(4), 588–596. [Q1]. Retrieved from https://www.emerald.com/insight/content/doi/10.1108/TQM-10-2013-0119/full/html

27 Saidi, O., Malouche, D., O'Flaherty, M., Mansour, N. B., Skhiri, H., Romdhane, H. B., & Bezdah, L. (2016). Assessment of cardiovascular risk in tunisia: Applying the framingham risk score to national survey data. *BMJ open*, *6*(11), e009195. [Q1]. Retrieved from https://doi.org/10.1136/bmjopen-2015-009195

28 Selmi, G., Azouz, Z. B., & Malouche, D. (2015). The volume radius function: A new descriptor for the segmentation of volumetric medical images. *2015 International Conference on Image and Vision Computing New Zealand (IVCNZ)*, 1–6. doi:10.1109/IVCNZ.2015.7761572

29 Aouinti, S., Malouche, D., Giudicelli, V., Kossida, S., & Lefranc, M.-P. (2015). Imgt/highv-quest statistical significance of imgt clonotype (aa) diversity per gene for standardized comparisons of next generation sequencing immunoprofiles of immunoglobulins and t cell receptors. *PLoS One*, *10*(11), e0142353. [Q1]. Retrieved from https://pubmed.ncbi.nlm.nih.gov/26540440/

30 Hassine, K. B., Taamalli, A., Slama, M. B., Khouloud, T., Kiristakis, A., Benincasa, C., … Bornaz, S. et al. (2015). Characterization and preference mapping of autochthonous and introduced olive oil cultivars in tunisia. *European Journal of Lipid Science and Technology*, *117*(1), 112–121. [Q2]. Retrieved from https://doi.org/10.1002/ejlt.201400049

31 Saidi, O., O'Flaherty, M., Mansour, N. B., Aissi, W., Lassoued, O., Capewell, S., … Romdhane, H. B. (2015). Forecasting tunisian type 2 diabetes prevalence to 2027: Validation of a simple model. *BMC public health*, *15*(1), 104. [Q1]. Retrieved from https://bmcpublichealth.biomedcentral.com/articles/10.1186/s12889-015-1416-z

32 Ghribi, K., Sevestre, S., Guessoum, Z., Gil-Quijano, J., Malouche, D., & Youssef, A. (2014). A survey on multi-agent management approaches in the context of intelligent energy systems. *2014 International Conference on Electrical Sciences and Technologies in Maghreb (CISTEM)*, 1–8. doi:10.1109/CISTEM.2014.7077030

33 Hassine, K. B., El Riachy, M., Taamalli, A., Malouche, D., Ayadi, M., Talmoudi, K., … Romano, E. et al. (2014). Consumer discrimination of chemlali and arbequina olive oil cultivars according to their cultivar, geographical origin, and processing system. *European journal of lipid science and technology*, *116*(7), 812–824. [Q2]. Retrieved from https://doi.org/10.1002/ejlt.201300254

34 Karaoud, M., Bouafif, N., Malouche, D., Kouni, C., & Achour, N. (2014). La mortalité parmi les enfants âgés de moins de 15 ans en tunisie peut être liée à la température. *Revue d'Épidémiologie et de Santé Publique*, *62*, S122. [Q3]. Retrieved from https://www.em-consulte.com/article/911510/article/la-mortalite-parmi-les-enfants-ages-de-moins-de-15

35 Karaoud, M., Malouche, D. et al. (2014). Les effets de la température sur la mortalité chez les personnes âgées en tunisie. *Revue d'Épidémiologie et de Santé Publique*, *62*, S219–S220. [Q3]. Retrieved from https://www.em-consulte.com/article/915656/les-effets-de-la-temperature-sur-la-mortalite-chez

36 Karaoud, M., Malouche, D., & Alaya, N. B. (2014). Mortalité et température journalière en tunisie: Une étude multi-région. *Revue d'Épidémiologie et de Santé Publique*, *62*, S218. [Q3]. Retrieved from https://www.em-consulte.com/article/915651/article/mortalite-et-temperature-journaliere-en-tunisie%C2%A0-u

37 Karaoud, M., Malouche, D., & Bouafif, N. (2014). Méthodologie de l'analyse de la relation température–mortalité en tunisie. *Revue d'Épidémiologie et de Santé Publique*, *62*, S141–S142. [Q3]. Retrieved from https://www.em-consulte.com/article/911552/article/methodologie-de-l-analyse-de-la-relation-temperatu

38 Triki, H. Z., Daly-Yahia, O. K., Malouche, D., Komiha, Y., Deidun, A., Brahim, M. et al. (2014). Distribution of resting cysts of the potentially toxic dinoflagellate alexandrium pseudogonyaulax in recently-deposited sediment within bizerte lagoon (mediterranean coast, tunisia). *Marine pollution bulletin*, *84*(1-2), 172–181. [Q1]. Retrieved from https://doi.org/10.1016/j.marpolbul.2014.05.014

39 Aouinti, S., Mallek, H., Malouche, D., Saidi, O., Lassouedi, O., Hentati, F., & Romdhane, H. B. (2013). Graphical interaction models to extract predictive risk factors of the cost of managing stroke in tunisia. *2013 International Conference on Computer Medical Applications (ICCMA)*, 1–6. Retrieved from https://ieeexplore.ieee.org/document/6506162

40 Ben-Hassine, K., Taamalli, A., Ferchichi, S., Mlaouah, A., Benincasa, C., Romano, E., … Hammami, M. (2013). Physicochemical and sensory characteristics of virgin olive oils in relation to cultivar, extraction system and storage conditions. *Food research international*, *54*(2), 1915–1925. [Q1]. Retrieved from https://scholar.cnki.net/Detail/doi/GARJ2013/SJES14010600411056

41 Fehri, R., Rifi, H., Alboueiri, A., Malouche, D., Ayadi, M., Rais, H., & Mezlini, A. (2013). Carcinoma of unknown primary: Retrospective study of 437 patients treated at salah azaiez institute. *La Tunisie medicale*, *91*(3), 205–208. [Q4]. Retrieved from https://www.latunisiemedicale.com/article-medicale-tunisie_2165_en

42 Hassine, K. B., Taamalli, A., Malouche, D., Kammoun, N., Lazzez, A., Benincasa, C., … Bouaziz, M. (2012). Influence of variety, geographical site and extraction system on virgin olive oil (voo) linoleic acid composition and its impact on consumer preference. *Linoleic Acids*, 97. [Q2]. Retrieved from https://www.researchgate.net/publication/288652330_Influence_of_variety_geographical_site_and_extraction_system_on_virgin_olive_oil_VOO_linoleic_acid_composition_and_its_impact_on_consumer_preference

43 Malouche, D., & Rajaratnam, B. (2011). Gaussian covariance faithful markov trees. *Journal of Probability and Statistics*, *2011*. [Q3]. Retrieved from https://doi.org/10.1155/2011/152942

44 Ranjanomennahary, P., Ghalila, S. S., Malouche, D., Marchadier, A., Rachidi, M., Benhamou, C., & Chappard, C. (2011). Comparison of radiograph-based texture analysis and bone mineral density with three-dimensional microarchitecture of trabecular bone. *Medical Physics*, *38*(1), 420–428. [Q1]. doi:10.1118/1.3528125. eprint: https://aapm.onlinelibrary.wiley.com/doi/pdf/10.1118/1.3528125

45 Arfa, I., Nouira, S., Abid, A., Alaya, N. B.-B., Zorgati, M., Malouche, D., … Romdhane, H. B. et al. (2010). Absence d'association entre les polymorphismes du système rénine angiotensine (sra) et l'hypertension artérielle chez les diabétiques de type 2 tunisiens. *la tunisie médicale*, *88*(01), 37–40. [Q4].

46 Arfa, I., Nouira, S., Abid, A., Bouafif-Ben, N. A., Zorgati, M. M., Malouche, D., … Ben, H. R. et al. (2010). Lack of association between renin-angiotensin system (ras) polymorphisms and hypertension in tunisian type 2 diabetics. *La tunisie Medicale*, *88*(1), 38–41. [Q4].

47 Ghouila, A., Jmel, H., Yahia, S., Malouche, D., & Abdelhak, S. (2009). Multi-som: A novel clustering approach for gene expression analysis. *Infection, Genetics, and Evolution: Journal of Molecular Epidemiology and Evolutionary Genetics in Infectious Diseases*, *9*(3), 374–374. [Q1]. Retrieved from https://europepmc.org/article/med/18992849

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51 Arfa, I., Abid, A., Nouira, S., Elloumi-Zghal, H., Malouche, D., Mannai, I., … Zouari, B. et al. (2008). Lack of association between the angiotensin-converting enzyme gene (i/d) polymorphism and diabetic nephropathy in tunisian type 2 diabetic patients. *Journal of the Renin-Angiotensin-Aldosterone System*, *9*(1), 32–36. [Q2]. Retrieved from https://doi.org/10.3317/jraas.2008.002

52 Kokonendji, C. C., & Malouche, D. (2008). A property of count distributions in the hinde–demétrio family. *Communications in Statistics—Theory and Methods*, *37*(12), 1823–1834. [Q3]. Retrieved from https://doi.org/10.1080/03610920701809266

53 Malouche, D., & Sevestre-Ghalila, S. (2008). Estimating high dimensional faithful gaussian graphical models by low-order conditioning. *Proceeding, of 26th IASTED International Multi-Conference on Applied Informatics, Artificial Intelligence and Applications*, 595–025. Retrieved from http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.246.9608

54 Arfa, I., Abid, A., Malouche, D., Alaya, N. B., Azegue, T. R., Mannai, I., … Blousa-Chabchoub, S. et al. (2007). Familial aggregation and excess maternal transmission of type 2 diabetes in tunisia. *Postgraduate medical journal*, *83*(979), 348–351. [Q1].

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56 Letac, G., & Malouche, D. (2000). The markov chain associated to a pick function. *Probability theory and related fields*, *118*(4), 439–454. [Q1]. Retrieved from https://link.springer.com/article/10.1007/PL00008750

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