

CURRICULUM VITAE



Name	Samar Kamal Abdel Hameed Kassim
Title	Professor of Medical Biochemistry & Molecular Biology
Birth date	September 20, 1962
Address	Villa 78 Amin ElRafie St., First District West, Mogawra 3, Shorouk City, Cairo, Egypt, 11837.
Telephone	002 02 20303065
Mobile	002 010 0170 1297
Fax	002 02 26859928
Email	samar_kassim@med.asu.edu.eg samar_kassim@yahoo.com ,

Education

2015	Diploma of Clinical Nutrition, National Institute of Nutrition, Cairo, Egypt.
1994	Ph. D. Medical Biochemistry. Ain Shams Faculty of Medicine, Cairo, Egypt. Ph. D. Thesis titled <i>“Biochemical Studies Based on Signal Transduction by C-erbB-2 gene Product”</i> , Laboratory of Breast and Ovarian Cancer Biology, Duke University Medical Center, Durham, NC, USA.
1991	M. Sc. Biochemistry, (Very good). M. Sc. Thesis titled <i>“Subcellular Fractionation of Breast Cancer Tissues and Estimation of MCA in The Fractions”</i> , Ain Shams Faculty of Medicine, Cairo, Egypt
1985	M.B.B.Ch. of Medicine and Surgery, (Very good with Honor). Ain Shams Faculty of Medicine, Cairo, Egypt

Personal Experiences

2022-present:	Head of the National Bioinformatics Network (BioNetMasr).
2019-present:	Head of Computational Biology team in “MASRI” Research Institute
Jan 2018-present:	Lead of Precision Medicine Working Group at the Pan African Bioinformatics Network (H3AbioNet).
May 2016-2018:	Co-Chair, Genomics Education and Coordinated Training Working Group (ECTWG), H3Africa Consortium.
December 2015-present:	Clinical Nutrition Specialist, Oncology Department, Faculty of Medicine, Ain Shams University.
March 2005 – present	Professor of Medical Biochemistry and Molecular Biology , Faculty of Medicine, Ain Shams University.
July 2012- June 2015	Head of Oncology Diagnostic Unit , Ain Shams Faculty of Medicine.
June 2002- Sep 2002	Visitor Scientist, Department of Biological Sciences, Glasgow Caledonian University, Glasgow, UK.
2000 – March 2005	Associate professor of Medical Biochemistry& Molecular Biology, Ain Shams Faculty of Medicine.

Dr. Samar Kassim CV

1995 - 2000	Lecturer, Dept. of Medical Biochemistry& Molecular Biology, Ain Shams Faculty of Medicine.
1992 - 1994	Research associate, Dept. of Medicine, Duke University Medical Center, Durham, North Carolina, USA.
1991 - 1992	Assistant Lecturer, Dept. of Medical Biochemistry& Molecular Biology, Ain Shams Faculty of Medicine.
1988 - 1991	Demonstrator, Dept. of Medical Biochemistry& Molecular Biology, Ain Shams Faculty of Medicine.
1986 - 1988	General Practitioner, Ministry of Health, Egypt.
1985 - 1986	General Practitioner, Ain Shams Faculty of Medicine Hospitals.

<https://scholar.google.com.eg/citations?user=i1oV2zwAAAAJ&hl=en>

orcid.org/0000-0002-4359-6620

Scopus Author ID: 7004242957

ResearcherID: G-4701-2015

Recent Positions:

April 2023-present:	Head of the Bioinformatics Network (BioNetMasr).
March 2020-present:	Head of Computational Biology section at MASRI.
October 2016-present:	Member of the National Committee of Promoting Medical Biochemistry Staff members.
December 2015-present:	Clinical Nutrition Consultant at Medical Oncology & Nuclear Medicine Department, Faculty of Medicine, Ain Shams University.
August 2012-present:	Co-PI of the Egyptian Node of the Pan African Bioinformatics Network H3ABioNet, 0000-0002-4359-6620

Recent Studies

- Professional Diploma of **Clinical Nutrition Diploma for Health Professionals** program at the National Nutrition Institute 2014-2015.

Teaching interests

- Bioinformatics (for physicians and medical researchers).
- Clinical Nutrition and Bioinformatics aspects of Nutrition (Nutrigenomics and Nutrigenetics).
- Theoretical and practical teaching of Medical Biochemistry for under and postgraduate Medical students.

- Theoretical and practical teaching of Molecular Biology for under and postgraduate Medical students.
- Biostatistics.

Research interests

- Molecular Biology & Bioinformatics of HCV.
- Molecular Biology & Bioinformatics of epithelial tumors.
- Clinical Nutrition and Nutrigenomics.

Curricula development:

- Shared in designing the **Genomic Medicine** online course for nurses under the umbrella of H3Africa Education and Coordinated Training Working Group (2016).
- Shared in the development of recommended **Bioinformatics curricula** by H3ABioNet:
 - https://training.h3abionet.org/curriculum_development_wg/?page_id=137.
 - https://training.h3abionet.org/curriculum_development_wg/.
- **Bioinformatics** for undergraduate students (Ain Shams Faculty of Computer Sciences and Information) and postgraduate students (Ain Shams Faculty of Medicine).
- **Bioinformatics** for postgraduate students (Faculty of Computer Sciences and Information, Helwan University).

Recent Workshops and conferences:

- **EU Africa PerMed “Summer School” Standards in personalized medicine research**, 22 & 23 February 2023, **Breakwater Lodge - Cape Town South Africa**.
- **Federated data analysis workshop**, 24th February 2023, **Cape Town South Africa**.
- **Project Management in Global Health, Professional Development**, September 2020, Washington University.
- **Leadership and Management in Health, Professional Development**, June 2020, Washington University.
- **Professor Samar Kamal Kassim** presented “**Open Data in Bioinformatics and Required Infrastructure towards achieving the SDGs**” on behalf of

www.h3abionet.org in the 9th BioVision Alexandria Conference, Alexandria, Egypt, 2018.

- One of the Board of the 10th conference of African Society of Human Genetics, <http://afshg-cairo017.org/conference-board/>, November 16th-18th, Ritz Carlton Hotel, Cairo, Egypt.
- Bioinformatics Teaching Methods by Global Organization for Learning, Education and Training (GOBLET). November 16-17th, 2015, Cape Town, South Africa.
- H3ABioNet ICIPE Train the Trainer Bioinformatics Workshop, July 8-26, 2013, Nairobi, Kenya.
- Total Quality Management for Health Care Professionals. The American University in Cairo, School of Continuing Education. March 21 – May 16, 2013.
- "Structural Bioinformatics School" held at Cairo University October 8-13, 2012.

Manuscripts of last 10 years:

<https://www.ncbi.nlm.nih.gov/myncbi/samar.kamal%20kassim.1/bibliography/public/>

1. HOURIYAH TEGALLY, JAMES E. SAN., MATTHEW COTTEN, MONIKA MOIR, BRYAN TEGOMOH, GERALD MBOOWA, DARREN P. MARTIN, CHERYL BAXTER, ARNOLD W. LAMBISIA[...], EDUAN WILKINSON E+393 authors: The evolving SARS-CoV-2 epidemic in Africa: Insights from rapidly expanding genomic surveillance. *SCIENCE*, 15 Sep 2022, DOI: [10.1126/science.abq5358](https://doi.org/10.1126/science.abq5358)
2. Jongeneel C. Victor, Kotze Maritha J., Bhaw-Luximon Archana, Fadlelmola Faisal M., Fakim Yasmina J., Hamdi Yosr, Kassim Samar Kamal, Kumuthini Judit, Nembaware Victoria, Radouani Fouzia, Tiffin Nicki, Mulder Nicola: A View on Genomic Medicine Activities in Africa: Implications for Policy. *Frontiers in Genetics* (13), 2022. <https://doi.org/10.3389/fgene.2022.769919>
3. Othman H, Zass L, da Rocha JEB, Radouani F, Samtal C, Benamri I, Kumuthini J, Fakim YJ, Hamdi Y, Mezzi N, Boujemaa M, Okeke CJ, Tendwa MB, Sanak K, Chaouch M, Panji S, Kefi R, Sallam RM, Ghoorah AW, Romdhane L, Kiran A, Meintjes AP, Maturure P, Jmel H, Ksouri A, Azzouzi M, Farahat MA, Ahmed S, Sibira R, Turkson MEE, Ssekagiri A, Parker Z, Fadlelmola FM, Ghedira K, Mulder N, Kamal Kassim S. African Genomic Medicine Portal: A Web Portal for Biomedical Applications. *Journal of Personalized Medicine*. 2022; 12(2):265. <https://doi.org/10.3390/jpm12020265>. PMCID: PMC8879570.
4. Wilkinson E, Giovanetti M, Tegally H, et al.,: [A year of genomic surveillance reveals how the SARS-CoV-2 pandemic unfolded in Africa](https://doi.org/10.1126/science.abc.2021.373.660). *Science*. 2021 Oct

- 22;374(6566):423-431. doi: [10.1126/science.abj4336](https://doi.org/10.1126/science.abj4336). Epub 2021 Sep 9. PubMed PMID: 34672751; PubMed Central PMCID: PMC7613315.
5. Fadlelmola FM, Ghedira K, Hamdi Y, Hanachi M, Radouani F, Allali I, Kiran A, Zass L, Alsayed N, Fassatoui M, Samtal C, Ahmed S, Da Rocha J, Chaqsare S, Sallam RM, Chaouch M, Farahat M, Ssekagiri A, Parker Z, Adil M, Turkson M, Benchaalia A, Benkahla A, Panji S, Kassim S, Souiai O, Mulder N: H3ABioNet genomic medicine and microbiome data portals hackathon proceedings. *Database (Oxford)*. 2021 Apr 17;2021:baab016. doi: [10.1093/database/baab016](https://doi.org/10.1093/database/baab016). PMID: 33864455
 6. Hamdi Y, Zass L*, Othman H,* Radouani F, Allali I, Hanachi M, Okeke CJ, Chaouch M, Tendwa MB, Samtal C, Sallam RM, Alsayed N, Turkson M, Ahmed S, Benkahla A, Romdhane L, Souiai O, Bishop OT, Ghedira K, Fadlelmola FM, {Mulder N, Kassim SK}: Human OMICs and Computational Biology Research in Africa: Current Challenges and Prospects. *OMICS A Journal of Integrative Biology* 25 (4): 2021. DOI: [10.1089/omi.2021.0004](https://doi.org/10.1089/omi.2021.0004). PMCID: PMC80607177.
 7. Choudhury A, Aron S, Botigué LR, Sengupta D, Botha G, Bensellak T, Wells G, Kumuthini J, Shriner D, Fakim YJ, Ghoorah AW, Dareng E, Odia T, Falola O, Adebisi E, Hazelhurst S, Mazandu G, Nyangiri OA, Mbiyavanga M, Benkahla A, Kassim SK, Mulder N, Adebamowo SN, Chimusa ER, Muzny D, Metcalf G, Gibbs RA, Rotimi C, Ramsay M, Adeyemo AA, Lombard Z, Hanchard NA. High-depth African genomes inform human migration and health. *Nature*. 2020 Oct;586(7831):741-748. doi: [10.1038/s41586-020-2859-7](https://doi.org/10.1038/s41586-020-2859-7). Epub 2020 Oct 28. PubMed PMID: 33116287.
 8. Aron S, Jongeneel CV, Chauke PA, Chaouch M, Kumuthini J, Zass L, Radouani F, Kassim SK, Fadlelmola FM, Mulder N. Ten simple rules for developing bioinformatics capacity at an academic institution. *PLoS Comput Biol*. 2021 Dec 9;17(12):e1009592. doi: [10.1371/journal.pcbi.1009592](https://doi.org/10.1371/journal.pcbi.1009592). PMID: 34882684; PMCID: PMC8659687.
 9. Radouani F, Zass L, Hamdi Y, Rocha JD, Sallam R, Abdelhak S, Ahmed S, Azzouzi M, Benamri I, Benkahla A, Bouhaouala-Zahar B, Chaouch M, Jmel H, Kefi R, Ksouri A, Kumuthini J, Masilela P, Masimirembwa C, Othman H, Panji S, Romdhane L, Samtal C, Sibira R, Ghedira K, Fadlelmola F, Kassim SK, Mulder N. A review of clinical pharmacogenetics Studies in African populations. *Per Med*. 2020 Mar;17(2):155-170. doi: [10.2217/pme-2019-0110](https://doi.org/10.2217/pme-2019-0110). Epub 2020 Mar 3. Review. PubMed PMID: 32125935.
 10. Nembaware V; African Genomic Medicine Training Initiative, Mulder N.: African Genomic Medicine Training Initiative, Mulder N2. The African Genomic Medicine Training Initiative (AGMT): Showcasing a Community and Framework Driven Genomic Medicine Training for Nurses in Africa. *Front Genet*. 2019 Dec 20;10:1209. doi: [10.3389/fgene.2019.01209](https://doi.org/10.3389/fgene.2019.01209). eCollection 2019. PMID: 31921282.
 11. Aron, Shaun et al. H3ABioNet: Developing Sustainable Bioinformatics Capacity in Africa. *EMBnet.journal*, [S.l.], v. 23, p. e886, may 2017. ISSN 2226-6089. Available at: <<https://journal.embnet.org/index.php/embnetjournal/article/view/886/1342>>. Date accessed: 29 aug. 2021. doi:<https://doi.org/10.14806/ej.23.0.886>.

12. Ahmed MY, Salah MM, **Kassim SK**, Elayat WM, Mohamed DA and Zahra FA: Evaluation of the diagnostic and therapeutic roles of non-coding RNA and cell proliferation related gene association in hepatocellular carcinoma. *Gene* (706): Available online April 26, 2019. <https://doi.org/10.1016/j.gene.2019.04.054>
13. Ibrahim H. Borai, Ahmed F. Soliman, Hadeer M. Ahmed, Gihan F. Ahmed, and **Samar K. Kassim** (2018): Association of MTHFR C677T and ABCA1 G656A polymorphisms with obesity among Egyptian children. *Gene Reports*, 11: 143-149. [10.1016/j.genrep.2018.03.011](https://doi.org/10.1016/j.genrep.2018.03.011)
14. Sawsan Aboul-Fotouh, Mohamed Habib, Tarek Asaad, **Samar K. Kassim** and Mohamed H. Ghanem (2018): Behavioral effects of toll-like receptor-4 antagonist 'eritoran' in an experimental model of depression: role of prefrontal and hippocampal neurogenesis and γ -aminobutyric acid/glutamate balance. *Behavioural Pharmacology*, 29 :413-425. PMID: 29561292, DOI: [10.1097/FBP.0000000000000390](https://doi.org/10.1097/FBP.0000000000000390)
15. S El Sayed, E Khairy, AR Basheer, WS Zaki, GF Ahmad, **SK Kassim** (2018): Evaluation of leptin and MMP2 genes methylation in childhood obesity. *Gene Reports* 11: 79-86. [10.1016/j.genrep.2018.02.006](https://doi.org/10.1016/j.genrep.2018.02.006)
16. Hamdy M, **Kassim SK**, Khairy E, Maher M, Mansour KA, Albreezy AM. (2018): Ghrelin gene polymorphism as a genetic biomarker for prediction of therapy induced clearance in Egyptian chronic HCV patients. *Gene*. 2018 Jan 25. pii: S0378-1119(18)30098-2. doi: [10.1016/j.gene.2018.01.077](https://doi.org/10.1016/j.gene.2018.01.077). [Epub ahead of print]. PMID: 29374597.
17. Aboul-Fotouh S, Hassan D, Habib M, Amin AI, **Kassim SK**, and Mohamed AS (2018): Biochemical studies of hippocampal gene expression of brain-derived neurotrophic factor and toll-like receptor-4 in diabetic rats exposed to chronic stress: effects of antidepressant drugs. *Asian J of Pharmaceutical and Clinical Research*; (11): 271-7. <https://doi.org/10.22159/ajpcr.2018.v11i1.21593>.
18. **S.K. Kassim**, S.M. Kamal, H.H. Shehata, M.M. Salib, M.L. Louka, M.M. Sallam, L.M. Nabegh (2017): Evaluation of serum fibrotic markers; CTGF, IL-17 and TGF- β 1 versus liver biopsy for detection of hepatic fibrosis in Egyptian patients with chronic hepatitis C. *Meta Gene* (13): 63-69. <https://doi.org/10.1016/j.mgene.2017.05.003>
19. Nicola J. Mulder  Correspondence information about the author Nicola J. Mulder 
Email the author Nicola J. Mulder, Ezekiel Adebisi, Marion Adebisi, Seun Adeyemi, Azza Ahmed, Rehab Ahmed, Bola Akanle, Mohamed Alibi, Don L. Armstrong, Shaun Aron, Efejiro Ashano, Shakuntala Baichoo, Alia Benkahla, David K. Brown, Emile R. Chimusa, Faisal M. Fadlelmola, Dare Falola, Segun Fatumo, Kais Ghedira, Amel Ghouila, Scott Hazelhurst, Itunuoluwa Isewon, Segun Jung, **Samar Kamal Kassim**, Jonathan K. Kayondo, Mamana Mbiyavanga, Ayton Meintjes, Somia Mohammed, Abayomi Mosaku, Ahmed Moussa, Mustafa Muhammd, Zahra Mungloo-

- Dilmohamud, Oyekanmi Nashiru, Trust Odia, Adaobi Okafor, Olaleye Oladipo, Victor Osamor, Jellili Oyelade, Khalid Sadki, Samson Pandam Salifu, Jumoke Soyemi, Sumir Panji, Fouzia Radouani, Oussama Souiai, Özlem Tastan Bishop, and The H3ABioNet Consortium, as members of the H3Africa Consortium (2017):** Development of Bioinformatics Infrastructure for Genomics Research in H3Africa. *Global Heart*; 12: 91-98. DOI: <http://dx.doi.org/10.1016/j.gheart.2017.01.005>
- 20. Nicola J Mulder, Ezekiel Adebisi, Raouf Alami, Alia Benkahla, James Brandful, Seydou Doumbia, Dean Everett, Faisal M Fadlilmola, Fatima Gaboun, Simani Gaseitsiwe, Hassan Ghazal, Scott Hazelhurst, Azeddine Ibrahimi, Winston Hide, Yasmina Jaufeerally Fakim, Victor Jongeneel, Fourie Joubert, Samar Kassim, Jonathan Kayondo, Judit Kumuthini, Sylvester Lyantagaye, Julie Makani, Ahmed Mansour Alzohairy, Daniel Masiga, Ahmed Moussa, Oyekanmi Nash, Odile Ouwe Missi Oukem-Boyer, Ellis Owusu-Dabo, Sumir Panji, Hugh Patterson, Fouzia Radouani, Khalid Sadki, Fouad Seghrouchni, Özlem Tastan Bishop, Nicki Tiffin, Nzovu Ulenga, and H3ABioNet Consortium (2016):** H3ABioNet, a sustainable Pan-African Bioinformatics Network for Human Heredity and Health in Africa. *Genome Res.* 26: 271-7, doi: [10.1101/gr.196295.115](https://doi.org/10.1101/gr.196295.115). Epub 2015 Dec 1.
- 21. H3Africa Consortium (2014):** Enabling the genomic revolution in Africa. *Science*; 344 (6190):1346-8. doi: [10.1126/science.1251546](https://doi.org/10.1126/science.1251546). PMID: 24948725
- 22. Islam Ibrahim Amin, Aboul Ella Hassanien, Samar K. Kassim, Hesham A. Hefny (2014):** Visualizing and Identifying the DNA Methylation Markers in Breast Cancer Tumor Subtypes. In: *Proceedings of the Fifth International Conference on Innovations in Bio-Inspired Computing and Applications IBICA 2014 Advances in Intelligent Systems and Computing, At VSB-Technical University of Ostrava, Ostrava, Czech republic, Springer*; 303, 161-171. http://link.springer.com/chapter/10.1007/978-3-319-08156-4_17
- 23. Kamal SM, Kassim SK, Ahmed AI, Mahmoud S, Bahnasy KA, Hafez TA, Aziz IA, Fathelbab IF, Mansour HM. (2014):** Host and viral determinants of the outcome of exposure to HCV infection genotype 4: a large longitudinal study. *Am J Gastroenter*; 109(2):199-211. doi: [10.1038/ajg.2013.427](https://doi.org/10.1038/ajg.2013.427). Epub 2014 Jan 21.

Books & Book Chapters

1. **Judit Kumuthini, Lyndon Zass, Melek Chaouch, Faisal M Fadlelmola, Nicola Mulder, Fouzia Radouani, Verena Ras, Chaimae Samtal, Milaine SS Tchamga, Dassen Sathan, Anisah Ghoorah, Raphael Z Sangeda, Liberata A Mwita, Upendo Masamu, Samar Kamal Kassim, Zoe Gill, Zahra Mungloo-Dilmohamud, Gordon Wells:** Genomic Data Sharing. In Genomics Data Sharing, Academic press publisher, 111-135. <https://doi.org/10.1016/B978-0-12-819803-2.00003-1>.
2. **Mohammed A. Farahat, A. Abdo, Samar Kamal Kassim:** A Systematic Literature Review of DNA-Based Steganography Techniques: Research Trends, Data Sets, Methods, and Frameworks. In: **Magdi D.A., Helmy Y.K., Mamdouh M., Joshi A. (eds) Digital Transformation Technology. Lecture Notes in Networks and Systems**, vol 224. Springer, Singapore. https://doi.org/10.1007/978-981-16-2275-5_31.
3. **Islam Ibrahim Amin, Aboul Ella Hassanien, Samar K. Kassim, Hesham A. Hefny:** Big DNA Methylation Data Analysis and Visualizing in a Common Form of Breast Cancer. In **Big Data in Complex Systems: Challenges and Opportunities**, pp: 275-391. Publisher: **Springer-Verlag, Germany**, Editors: Aboul Ella Hassanien, Ahmad Taher Azar, Vaclav Snasel, Janusz Kacprzyk, Jemal H. Abawajy, 2014. <http://www.springer.com/gp/book/9783319110554>.
4. **Sanaa Eissa, Lilian Ramzy, Samar Kassim.** Methylation of APC tumor suppressor gene In bladder cancer: Molecular Screening for Bladder Cancer Project PI: Prof Sanaa Eissa, Medical Biochemistry & Molecular biology department. **First edited by Sanaa Eissa, 01/2012; LAP Lambert Academic Publishing AG & Co KG. ISBN: 978-3-8484-1376-8.**<https://www.exlibris.ch/de/buecher-buch/english-books/ramzy-lilian/methylation-of-apc-tumor-suppressor-gene-in-bladder-cancer/id/9783848413768> . ISBN: 978-3-8484-1376-8
5. **A. Sharaf Eldin, , S. AbdelGaber, , T. Soliman, , S. Kassim and , A. Abdo:**A Comparative Study of Protein Sequence Clustering Algorithms. In “Innovations in Computing Sciences and Software Engineering”. pp 373-378. Eds.: **Sobh TareK and Ellaithy Khaled**, 2010. Published by: Springer Netherlands, Copyright holder: Springer Science+Business Media B.V. http://link.springer.com/chapter/10.1007%2F978-90-481-9112-3_63. [Doi>10.1007/978-90-481-9112-3_63](https://doi.org/10.1007/978-90-481-9112-3_63), Print ISBN: 978-90-481-9111-6, Online ESNB: 978-90-481-9112-3.
6. **Bast, R.C. et al. (1995).** Cell growth regulation in ovarian cancer: tyrosine kinases, tyrosine phosphatases and tumour necrosis factor- α . In: **Sharp, F., Mason, P., Blackett, T., Berek, J. (eds) Ovarian Cancer 3.** Springer, Boston, MA. https://doi.org/10.1007/978-1-4757-0136-4_11,

Abstracts

1. **Wiener, S.K. Kassim, A. Berchuck, R.C. Bast, Jr.** 1993. Role of Protein Tyrosine Kinases and Protein Tyrosine Phosphatases in Human Ovarian and Mammary Cancer Cell Growth. 2nd International Symposium on Cancer Molecular Biology. Cairo, Egypt.
2. **Wiener, S.K. Kassim, A. Berchuck, R.C. Bast, Jr.** 1994. Differential Expression of Protein Tyrosine Phosphatases in Human Ovarian Adenocarcinomas. American Association for Cancer Research. San Francisco, CA, USA.
3. **Bast, Jr., Jon Wiener, S.K. Kassim, S. Wu, C. Boyer, K. DeSombre, J. Hurteau, G. Rodriguez, G. Mills, and A. Berchuck.** Cell Growth Regulation in Ovarian Cancer: Tyrosine Kinases, Tyrosine Phosphatases and Tumor Necrosis Factor- α . Helene Harris symposium, Toronto, Canada.

Review Activity

- Scientific Reviewer at Misr ElKhair Organization.
- Reviewer for the **National Encouraging Award of Academy of Science and Research**, 2014.
- Reviewer for many International Scientific Journals e.g. *Liver International*, *Gene*, *Clinical Biochemistry*, *Chemotherapy*, *IUBMB Life*, and the *International Journal of Gynecological Cancer*, and regional Journals as the *Egyptian Journal of Biochemistry and Molecular Biology* and the *Arab Journal of Biochemistry*.
- Chosen by the "*Merit scholarship programme of the Islamic Development Bank*" as an external reviewer to evaluate the Ph.D. and post-doctoral applications for the Islamic Development Bank fellowships for the year 1429H.
- Reviewer for joint projects of Research Academy of Science and Research (**Swedish MENA and Amnhotob**).

Portal design:

<https://agmp.h3abionet.org/>
<https://doi.org/10.3390/jpm12020265>

Projects:

- Head of African Genomic Medicine working group in the recent project “**African Genomic Data Hub: NIH funded project U24 HG012750-01**. Started July 2023.
- **PI of the National Network for Bioinformatics BioNetMasr**, Scientific Research Academy, 2022.
- **MATREX (MASRI CAncer Biobank and InTe grated Genomic solution AccRedited Center of Scientific EXcellence)**: Science and Technology Development (STDF) funded project at MASRI research institution, Faculty of Medicine, Ain Shams University for BioBank center accreditation.
- Co-PI, NIH Grant # 5U24HG006941-08, National Human Genome Research Institute, 07/01/17-06/30/22: H3ABioNet: informatics solutions for H3Africa.
- Co-PI, NIH Grant # 1U41HG006941-01 NIH. H3ABioNet: a sustainable African Bioinformatics Network for H3Africa, 08/01/12- 07/01/17.
- PI in “Development and Accreditation of Dr. Ali Khalifa Hormones and Tumor Markers Lab, Faculty of Medicine, Ain Shams University” project # LP8-002-AIN awarded by Ministry of High Education, 2014.
- PI in “Development and Accreditation of Dr. Ali Khalifa Virology Lab, Faculty of Medicine, Ain Shams University” project # LP7-012-AIN awarded by Ministry of High Education, 2013.
- "Development of Curriculum for a Master Degree Program in Medical Informatics. Faculty of Computers and Information, Helwan University", Granted By: TEMPUS, 2007.
- "Screening for Markers for Molecular Diagnosis of Schistosomal Bladder Cancer, under the program of the National Strategy for Biotechnology and Genetic Engineering", Granted By: Academy of Scientific Research and Technology, 2005.

Awards

- جائزة جامعة عين شمس التقديرية ٢٠٢٢.
- جائزة جامعة عين شمس للنشر الدولي ٢٠٢٠، ٢٠٢١ عن نشر بحث في مجلة Nature.
- جائزة التميز في النشر الدولي مقدمة من النقابة العامة للأطباء بجمهورية مصر العربية 2013.
- جائزة المرحوم أ.د. ممتاز محمد الصاوي في مجال الطب المعملی وأمراض الدم (إحدى جوائز الهيئات و الأفراد الممنوحة من أكاديمية البحث العلمي لعام 2007).
- **Molecular Biology Excellency Award (Interlab, Cairo, Egypt, 1998) for the manuscript: Samar K. Kassim, Ibrahim SA, Sanaa Eissa, Sahar SA Zaki, El-Begermy MA, Abdou MH, and Kalifa A.: Molecular Biologic Studies on Epstein-Barr Virus, Human Papilloma Virus, and Flowcytometric Cell Cycle Kinetics in Nasopharyngeal Carcinoma and Inverted Papilloma Among Egyptian Patients. *Disease Markers*, 14: 113-120, 1998.**

