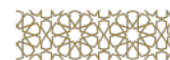




جامعة الخليج الطبية  
**GULF MEDICAL UNIVERSITY**  
ACADEMIC HEALTH CENTER

# Sustainable Development Goals





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## SDG 17 - Partnership for the Goals

GMU is committed to continuously improve its contribution to the SDG 17-Partnership for the Goals. It is clearly reflected in its vision, mission, and mandate ([Link](#)).

GMU through its collaborations with other Higher Education Institutions in the country and internationally aims to promote best practices. GMU believes that effective contribution towards SDGs is not possible until it works collaboratively with all its partners. GMU has been progressing its endeavours for achieving SDG 17 which include

- Collaborations/Partnerships with the industrial partners at local, national and international levels.
- Collaborations/Partnerships with Local Government
- Collaborations/Partnerships with NGO institutions

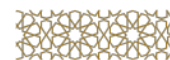
### University Collaborations - Year 2020 - Local

Name of the Collaborating Institutions / Organizations	Impact of Collaboration/Partnership
Thumbay University Hospital, Al Jurf Ajman -UAE	The cooperation aims at supporting GMU with Academic health system, internship, Manpower resources, clinical training, planning and control, physical & infrastructural facilities, research, education, community engagement, etc. Link: <a href="https://gmu.ac.ae/gulf-medical-university-signs-agreement-with-thumbay-university-hospital-to-implement-international-standards-of-academic-health-centers/">https://gmu.ac.ae/gulf-medical-university-signs-agreement-with-thumbay-university-hospital-to-implement-international-standards-of-academic-health-centers/</a>
Thumbay Physical Therapy & Rehabilitation Hospital, Medicity, Ajman -UAE	The cooperation aims at supporting GMU with Academic health system, internship, Manpower resources, clinical training, planning and control, physical & infrastructural facilities, research, education, community engagement, etc. Link: <a href="https://www.thumbayrehab.com/about-us/">https://www.thumbayrehab.com/about-us/</a>
Thumbay Dental Hospital, Medicity, Ajman -UAE	The cooperation aims at supporting GMU with Academic health system, internship, Manpower resources, clinical training, planning and control, physical & infrastructural facilities, research, education, community engagement, etc. Link: <a href="https://gmu.ac.ae/health-care/thumbay-dental-hospital/">https://gmu.ac.ae/health-care/thumbay-dental-hospital/</a>



Name of the Collaborating Institutions / Organizations	Impact of Collaboration/Partnership
Thumbay Hospital, Ajman - UAE	The cooperation aims at supporting GMU with Academic health system, internship, Manpower resources, clinical training, planning and control, physical & infrastructural facilities, research, education, community engagement, etc. Link: <a href="https://gmu.ac.ae/health-care/thumbay-hospital/">https://gmu.ac.ae/health-care/thumbay-hospital/</a>
Sheikh Shakhbout Medical City Abu Dhabi.	Internship Program
GMU, Thumbay Laboratory	Internship program, Student Research
Thumbay Medical and Dental Speciality Centre, Sharjah -UAE	The cooperation aims at supporting GMU with Academic health system, student clinical trainings, etc. Link: - <a href="https://thumbay.com/gallery/thumbay-medical-dental-speciality-centre/">https://thumbay.com/gallery/thumbay-medical-dental-speciality-centre/</a>
Thumbay Clinics -UAE	The cooperation aims at supporting GMU with Academic health system, student clinical trainings, etc. Link: <a href="https://gmu.ac.ae/health-care/thumbay-clinic/">https://gmu.ac.ae/health-care/thumbay-clinic/</a>
Sheikh Khalifa Specialty Hospital, Ras Al Khaimah, UAE	Enhance strategic partnerships, Academic and Research collaboration
UAE National Anti-Doping Committee (UNADA)	Joint educational training and research activities
Sheikh Shakhbout Medical City, Abu Dhabi	Education, research, and implementing the clinical training of the 5 <sup>th</sup> year medical students from GMU

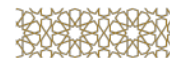




## University Collaborations - Year 2020 - National

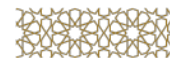
Name of the Collaborating Institutions / Organizations	Impact of Collaboration/Partnership
Gulf International Cancer Centre -UAE	GMU is entered into an agreement with Gulf International Cancer Centre to promote and develop cooperation in the field of Biomedical research, Innovation and education
Thumbay Dental Hospital Ajman UAE, and Mastery Academy FZ LLE Dubai - UAE	Training Contract
IDP Education Ltd (IELTS) - UAE	IELTS test
Emirates Physiotherapy Society -UAE	Strategic partnership
GSD (Gruppo San Donato) Healthcare FZ LLC, Dubai - UAE	(Planning, set up, organization, operations management, and delivery) Postgraduate course in Digital Dentistry
Sheikh Shakhbout Medical City, Abu Dhabi -UAE	Education, research, and implementing the clinical training of the 5th year medical students from GMU Public link: <a href="https://gulfnews.com/business/company-releases/gulf-medical-university-tie-up-with-sheikh-shakhbout-medical-city-mayo-clinic-abu-dhabi-1.1632306580722">https://gulfnews.com/business/company-releases/gulf-medical-university-tie-up-with-sheikh-shakhbout-medical-city-mayo-clinic-abu-dhabi-1.1632306580722</a>
UAE National Anti-Doping Committee (UNADA) -UAE	Joint educational training and research activities Public Link: <a href="https://gmu.ac.ae/cop_news/gulf-medical-university-signs-an-mou-with-uae-national-anti-doping-committee/">https://gmu.ac.ae/cop_news/gulf-medical-university-signs-an-mou-with-uae-national-anti-doping-committee/</a>
Dubai Health Authority -UAE	To provide training courses and workshops for the various health specialties Public Link: <a href="https://www.dha.gov.ae/en/DHANews/Pages/DHANews632312396-28-12-2020.aspx">https://www.dha.gov.ae/en/DHANews/Pages/DHANews632312396-28-12-2020.aspx</a>
Medical University of Warsaw, Poland	Enhance strategic partnerships and collaborative research around the world





## University Collaborations - Year 2020 - International

Name of the Collaborating Institutions / Organizations	Impact of Collaboration/Partnership
Paris-Saclay University, France	Student exchange program for Interns at Graduate level & PhD scholars, Offer Double Degree PhD Programs, exchange of faculty/Admin staff/ researchers/Technical Staff for teaching, conducting research and consultation services
UA Global Operations, Inc.	American Degree Pathway Program and Global Campus Experience Program
Club Physio & Dry Needling Institute	Co-market and run Physio Courses Link: <a href="https://gmu.ac.ae/cohs_news/gulf-medical-university-signs-mou-with-club-physio-and-dry-needling-institute-for-collaboration-in-conducting-cpds-and-research/">https://gmu.ac.ae/cohs_news/gulf-medical-university-signs-mou-with-club-physio-and-dry-needling-institute-for-collaboration-in-conducting-cpds-and-research/</a>
Seoul National University College of Medicine	Academic and Research Cooperation Link: <a href="https://gmu.ac.ae/wp-content/uploads/2020/06/FINAL-GMUbrochure_LR.pdf">https://gmu.ac.ae/wp-content/uploads/2020/06/FINAL-GMUbrochure_LR.pdf</a>
Royal College of Surgeons in Ireland, Medical University of Bahrain	Medical Education and research, Student exchange visiting for clinical/ research electives Link - <a href="https://gmu.ac.ae/gulf-medical-university-signs-mou-with-royal-college-of-surgeons-in-ireland-rCSI-bahrain-for-collaboration-in-medical-education-research/">https://gmu.ac.ae/gulf-medical-university-signs-mou-with-royal-college-of-surgeons-in-ireland-rCSI-bahrain-for-collaboration-in-medical-education-research/</a>
Health Corporation of Galilee Medical Center	To provide Medical services and Training services with CoD Public Link- <a href="https://uaenews4u.com/2020/12/20/gulf-medical-university-signs-mou-with-galilee-medical-center-bar-ilan-university/">https://uaenews4u.com/2020/12/20/gulf-medical-university-signs-mou-with-galilee-medical-center-bar-ilan-university/</a>
International Federation of Red Cross and Red Crescent Societies (IFRC)	Cooperative agreement on the provision of educational services. To develop and implement humanitarian sciences education programs and other relevant activities and projects aimed at supporting the mission of both institutions Public Link- <a href="https://uaenews4u.com/2020/11/19/memorandum-of-understanding-between-gulf-medical-university-and-the-international-federation-of-red-cross-red-crescent-societies-ifrc/">https://uaenews4u.com/2020/11/19/memorandum-of-understanding-between-gulf-medical-university-and-the-international-federation-of-red-cross-red-crescent-societies-ifrc/</a>
MedIQ Learning (ScholarRx) LLC, Kentucky	Master License and Services Agreement
Lebanese American University (LAU)	Academic Cooperation (Education, Training and Research)
American Academy Holdings, (American Academy of professional Coders 'AAPC')	Cooperation Agreement Public Link- <a href="https://thumbaymedicity.com/gmu-aapc-collaborating-center-signs-agreement-with-supreme-council-of-health-kingdom-of-bahrain-to-train-healthcare-professionals/">https://thumbaymedicity.com/gmu-aapc-collaborating-center-signs-agreement-with-supreme-council-of-health-kingdom-of-bahrain-to-train-healthcare-professionals/</a>
Aviceda Therapeutics LLC	Promote and develop cooperation in the field of healthcare, biomedical research, innovation and education



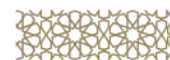
## GMU Involvement in Policy & Strategy Development of UAE Government

The Dubai Health Authority (DHA) has signed an Memorandum of Understanding (MoU) with the Gulf Medical University (GMU) to promote cooperation in the field of medical education and training ([Link](#)). The agreement aims to promote cooperation in medical training and enhance competencies of health personnel across health specialities. It also aims to promote cooperation in organising joint health-supporting programmes such as conferences, seminars and events and unifying efforts to spread the culture of innovation in society. It also aims at enhancing the capabilities of UAE medical staff and to support the government's direction towards achieving leadership in the field of medical research and specialised studies, as well as strengthening innovation and fostering knowledge.



Other contributions of GMU to Government are listed below:

Description of GMU's contribution	Evidence Link
GMU was invited by the Ministry of Education and the Prime Minister's Office Meeting regarding "The Next 50 Years Plan". arranged for all the Heads of UAE Higher Education Institutions and Prime Minister's Office.	<a href="#">Link</a>
The Chancellor & Dean College of Dentistry of GMU, were invited by the Ministry to contribute to the project of competency framework development for Dentistry program.	<a href="#">Link</a>

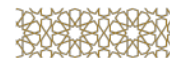


Description of GMU's contribution	Evidence Link
GMU was invited by MOHAP to participate in a Workshop to develop a Medical Education Strategy	<a href="#">Link</a>
Competency framework development of Pharmacy education in UAE: Prof. Sherief Dean-CoP was a member of the team formed by MoE for developing the Pharmacy Competency Framework Project of Ministry of Education UAE. The team collectively contributed to the aim of enhancing and transforming pharmacy education in the UAE.	( <a href="#">Link1</a> , <a href="#">Link2</a> )
Dean CoP was nominated to attend the course for certified reviewer by Commission for Academic Accreditation-Ministry of Education	<a href="#">Link</a>
Dean CoN appointed as member of 'National Nursing/Midwifery National Committee & 'Nursing Now Committee Member' of the MOH	<a href="#">Link</a>
GMU was invited by Dubai Health Authority to attend session on “Future Foresight of Health in Dubai 2071”	<a href="#">Link</a>
GMU was invited to contribute to the Ministry of Health for Canadian accreditation	<a href="#">Link</a>
Chancellor was Invited by Egyptian Authority for Compulsory Medical Training of Physicians inviting him to participate in developing and reviewing the questions of the national licensing examination.	<a href="#">Link</a>
GMU conducted Certificate of Competence in Health Professions Education course for Residency Program Directors at Dubai Health Authority (DHA) to enhance core competencies essential for effective educators. Conducted Module 2 on Assessment	<a href="#">Link</a>

### **GMU Participated in the Cross-Sectional Dialogue at the Saudi Society of Clinical Pharmacy Annual International Conference**

Prof. Sherief Khalifa, Dean of the College of Pharmacy and Vice Chancellor for Quality & Global Engagement at Gulf Medical University gave a presentation on: “The Future of Pharmacy Education in the Middle East”. The presentation focused on the changes needed in the current educational system to provide pharmacy graduates capable of serving their communities and playing a critical role in health care in the countries of the Middle East region. The role of academicians, pharmacy practitioners and regulators in enhancing pharmacy education was emphasized.



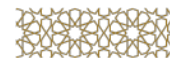


### **Gulf Medical University Participates in Workshop on “Teaching Excellence in Pharmacy Education”**

Prof. Sherief Khalifa, Dean College of Pharmacy & Vice Chancellor for Quality and Global Engagement delivered a 3-hours Webinar workshop titled: “Developing a Modern Competency Based Pharmacy Program”. The workshop was part of a course series focusing on international best practices related to teaching excellence in Pharmacy Education. The aim is to create a cohort of qualified professionals who can drive educational reform within the Egyptian nation ([Link](#)).

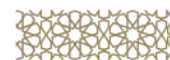
The course workshop was sponsored by Egyptian Knowledge Bank and organized by Knowledge E in collaboration with Accreditation Council of Pharmacy Education (ACPE). Knowledge E is an international services and products provider specializing in supporting academia across the MENA region.





## GMU Involvement in Transformations in Higher Education and Health Outcomes at International Level

Description of GMU's contribution	Evidence Link
Prof. Sherief Khalifa and Dr. Dixon Thomas were invited to conduct a webinar on Competencies of Modern Clinical Pharmacists organized by the Department of Pharmacy Practice at Manipal College of Pharmaceutical Sciences, India.	<a href="#">(Link)</a>
The Project "Virtual Patient Learning (VPL) won the MOHAP - Healthcare Innovation Awards under the Health Tech Category as one of the most innovative in the Life-Science division.	<a href="#">Link</a>
GMU invited on 'AI Based customized training for Healthcare Professionals: Emerging Trends and Solutions'	<a href="#">Link</a>
GMU invited under Track 3: The Role of Universities in Re-skilling and Upskilling the Workforce 2:30 pm - Case presentation on 'Transformation of Medical Education for the Future: From Informative to Transformative'.	<a href="#">Link</a>
GMU participated in IPEC Virtual Town Hall: Core Competencies for Interprofessional Collaborative Practice (ipecollaborative.org)  The event was organized by Interprofessional Education Collaborative (IPEC). The (IPEC) is launching a review and revision of the core competencies of interprofessional collaborative practice, and seeking feedback from educators, practitioners, health professionals.	<a href="#">(Link)</a>
GMU participated in the webinar to address challenges posed by pandemic Covid 19. The webinar invited academicians from across the world.	<a href="#">Link</a>
GMU participated in the online discussion on COVID-19 response efforts and recommendations for the future preparedness of academic medical centers in dealing with such pandemics.	<a href="#">Link</a>
GMU attended the Seminar which focused on accreditation of medical schools, standards for distance learning and adapting and augmenting the WFME Recognition of Accreditation Programme during the Pandemic	<a href="#">Link</a>
GMU presented 'Lessons Learnt from implementing online Health Professions Education: Implications to post COVID-19 education'	<a href="#">Link</a>
GMU participated in the Panel Discussion organized by Gulf News. <a href="https://www.youtube.com/watch?v=cvx7hoj-4io">https://www.youtube.com/watch?v=cvx7hoj-4io</a>	<a href="#">Link</a>
GMU member of AAHCI. GMU presented 'Lessons Learned from implementing online health professions education: Implications to post COVID-19 Education'	<a href="#">Link</a>



Description of GMU's contribution	Evidence Link
GMU participated and presentation the "Virtual Patient Learning (VPL) Innovation in distance Problem Based Learning (PBL) and Assessment of Clinical Competency"	<a href="#">Link</a>
GMU member of AAHCI. GMU presented 'Virtual Clinical Encounter Examination (VICEE) Innovation in Distance Assessment of Clinical Competency'	<a href="#">Link</a>
GMU presented 'Lessons Learned from the COVID-19 Pandemic: Disruption of Health Professions Education and Future Implications'. AAAH is supported by the World Health Organization Southeast Asia Region Office (WHO SEARO), World Health Organization Western Pacific Region Office (WHO WPRO).	<a href="#">Link</a>
GMU presented webinar on "Medical College of the Future". Waterfalls Webinars is an Initiative for Continuous Education from UAE to the world conducted by the Behavioral Rewards Department at the Ministry of Possibilities in collaboration with INDEX Holding.	<a href="#">Link</a>
GMU presented on the Topic: Lessons Learned from implementing online health professions education: Implications to post COVID-19 Education (Duration of talk 15 minutes) 10:15 am Question Answer Session	<a href="#">Link</a>

### GMU Collaborations with UAE Federal Government Quality Assurance Agency for Higher Education

The Commission for Academic Accreditation (CAA) is the UAE Federal Government Quality Assurance Agency for Higher Education. Working collaboratively with relevant international and local authorities in the Emirates. The CAA has a key leadership role in securing and developing the quality of higher education in the UAE. As a matter of the highest priority, it sets out to safeguard academic standards, and to assure and enhance the quality of learning opportunities provided for students in UAE's higher education institutions (HEIs). It undertakes licensing of HEIs in the UAE and accreditation of their award-bearing academic programs. In order to be entered in the National Register and receive Federal Recognition any HEIs offering post-secondary education in the UAE, GMU must receive institutional licensure and accreditation of their programs ([Link](#)).

1. College of Medicine received full accreditation from MoE-CAA for its MPH ([Link](#)) and BBMS ([Link](#)) programs during 2021
2. Gulf Medical University's launches a new PhD Program in Precision Medicine in Collaboration with University of Paris Saclay, France. PhD in Precision Medicine is a Dual



Award program with University of Paris Saclay. The program received its initial accreditation during 2021. ([Link](#))

3. Self-Study Report of the following programs have been submitted to CAA for award of Renewal of Program Accreditation during 2021.

- BSc. MIS Program
- BSc. MLS Program
- BSc. AT Program
- BSN Program
- MPT Program
- ADPCS Program
- MSc. MLS Program

Review visit by CAA External Review Team is in progress for the following programs

- BSc. MIS Program
- BSc. MLS Program
- BSc. AT Program
- BSN Program
- MPT Program
- ADPCS Program

## GMU Collaborations with International Accrediting Bodies

The collaboration is aimed at improving the quality of programs, aligning to the best industry practices and benchmarking our performance.

- College of Pharmacy received ACPE (Accreditation Council for Pharmacy Education) certification for its Doctor of Pharmacy (PharmD) program, the first internationally certified entry-to-practice PharmD program in the UAE. ([Link](#))

Progress from 2019 to 2021	Remarks
2019	<ul style="list-style-type: none"> <li>• ACPE certification was received.</li> <li>• 24 criteria were fully compliant.</li> <li>• 2 criteria were compliant with monitoring.</li> </ul>
2021	<ul style="list-style-type: none"> <li>• ACPE Focus visit took place in April 2021.</li> <li>• All 26 quality criteria were deemed fully compliant.</li> <li>• ACPE board decision for a 4-year certification is awarded in July.</li> </ul>





- Bachelor of Biomedical Sciences (BBMS) program has received the International Accreditation from the Institute of Biomedical Science (IBMS), UK. ([Link](#))
- MBBS program is accredited using the international standards WFME (World Federation for Medical Education) in July 2019 and becomes the first in the UAE and Gulf Region to be accredited based on WFME Standards ([Link](#)). This will put the College of Medicine and its MBBS program in WFME's new international directory of medical colleges and help the graduates meet ECFMG (Educational Commission for Foreign Medical Graduates) and ACGME (Accreditation Council for Graduate Medical Education) requirements.
- GMU has successfully received International Accreditation with the Quality Assurance Agency (QAA) for Higher Education, UK.
  - Out of 73-universities and Academic institutions in the United Arab Emirates, GMU is the 3rd University to get QAA International Accreditation after Ajman University and Higher Colleges of Technology.

Process: 5 Stages of International Quality Review (IQR)	Successful Completion
Application Stage	
Scoping Visit	
Review	
Accreditation	

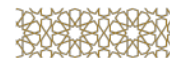


## GMU Collaborations with International Higher Education Institutions for its Programs

- PhD in Precision Medicine program with Paris-Saclay University ([Link](#))
- Masters in Public Health (MPH) program with Mel & Enid Zuckerman College of Public Health, University of Arizona, USA ([Link](#))
- Joint Masters/Diploma in Health Professions Education (JMHPE, and JDip. HPE) programs with Foundation for Advancement of International Medical Education and Research (FAIMER), USA and Centre for Medical Education in Context (CenMEDIC), UK. ([link](#))





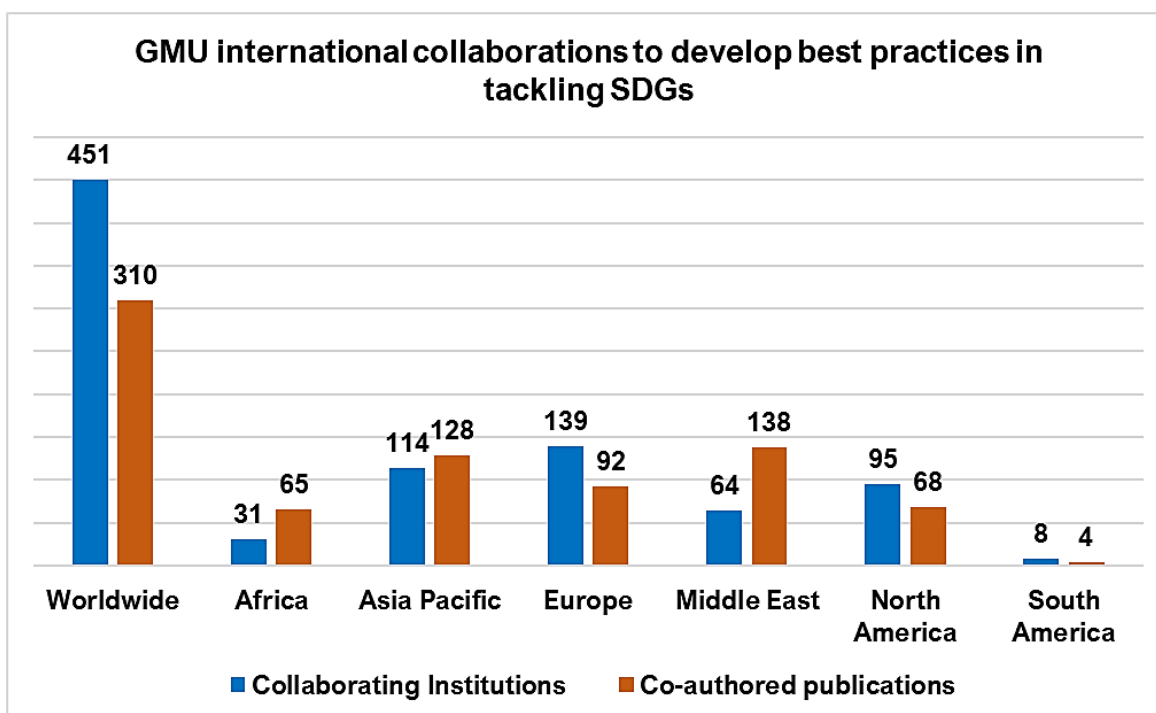


- Master in Clinical Pharmacy (MCP) program in collaboration with Virginia Commonwealth University-USA ([Link](#)), and Cleveland Clinic Abu Dhabi, UAE ([Link](#)).
- Master in Drug Discovery and Development (MDD) program in collaboration with University of Arizona, USA. ([Link](#))
- Bachelor and Executive master's in health care management and Economics (BSc. HME, and EMHME) programs in collaboration with the University of Milan-Italy and the University of Central Florida ([Link](#))
- Associate Degree in Pre-Clinical Sciences (ADPCS) leading to an MBBS degree from the following international universities.
  - Medical University of Lublin (MUL), Lublin, Poland, ([Link](#))

### International Collaborations for Research to Develop International Best Practice on Tackling the SDGs

During the period 2016-2020, GMU collaborated with 451-collaborating institutions from across the world and published 310-co-authored publications ([Link](#)).

The below graph highlights the classification of GMU research collaborating institutions and co-authored publications by regions across the globe.



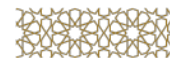
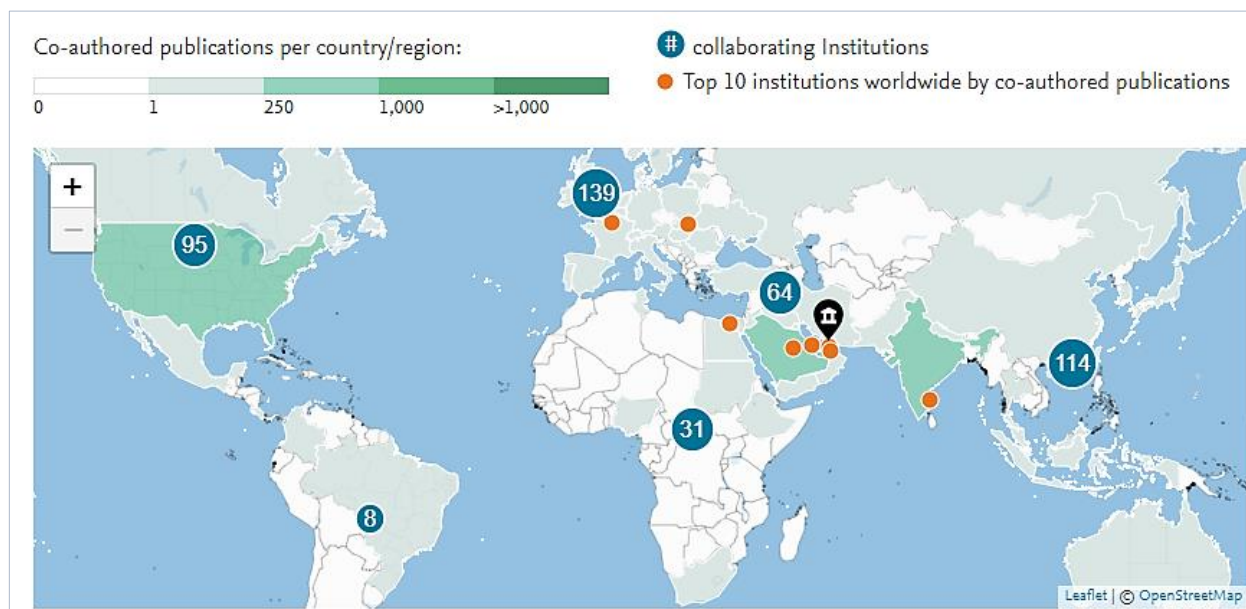


Figure 1: At a glance - GMU collaborating institutions across the world



The research publications of GMU with its collaborating institutions between the period 2016-2020 ([Link](#)) are highlighted in the chart below. The graph below highlights the involvement of GMU in conducting research, reviewing comparative approaches, and developing international best practices on tackling the SDGs across all different subject areas presented in the graph below.





## GMU Collaboration with NGOs for Research Projects

Year	Research Title	Funding Agency (NGO)
2020	Targeting tumor hypoxic microenvironment and its associated pathways in order to design an innovative and integrative anti PD1-based cancer immunotherapy approach.	Sheikh Hamdan Bin Rashid Al Maktoum grant Program
2020	Comprehensive analysis of hypoxia induced tumor mutational burden and neoantigen generation in breast cancer: Impact on immune surveillance	Sheikh Hamdan Bin Rashid Al Maktoum grant Program
2020	The role of autophagy in mediating the waterpipe smoke induced cell plasticity in lung cancer cell lines	Al Jalila Foundation (Closing June 2021)
2019	Targeting tumor hypoxic microenvironment and its associated pathways in order to design an innovative and integrative anti PD1-based cancer immunotherapy approach.	Sheikh Hamdan Bin Rashid Al Maktoum grant Program
2019	Comprehensive analysis of hypoxia induced tumor mutational burden and neoantigen generation in breast cancer: Impact on immune surveillance	Sheikh Hamdan Bin Rashid Al Maktoum grant Program
2019	Effects of smoking on remodeling the tumor microenvironment and shaping stemness and immunogenicity in lung cancer.	Al Jalila Foundation
2019	To determine the mutational and expression profiles of biomarkers in Non-Small-Cell Lung Carcinoma, Breast Cancer and Colon Cancer post immunotherapy	Sheikh Hamdan Bin Rashid Al Maktoum grant Program
2019	Artificial intelligence aided anti-COVID-19 preclinical drug repositioning with safety considerations under hypoxic condition	Al Jalila Foundation Seed Grants
2019	Predictors of Preventive Behaviors against COVID 19 Among UAE Residents	Al Jalila Foundation Seed Grants
2019	Are myokines responses different in diabetic, prediabetic and healthy participants: an exploration using different type of exercise?	Sheikh Hamdan Medical Research Grant

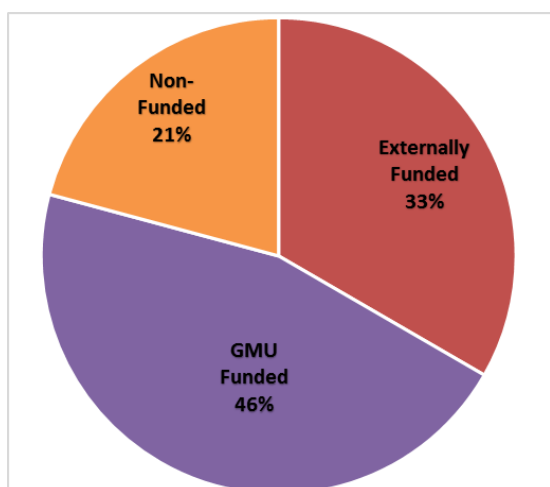


Figure 1: Active Research Projects under Funded and Non-funded categories

Grant amount in AED for Active & Submitted projects

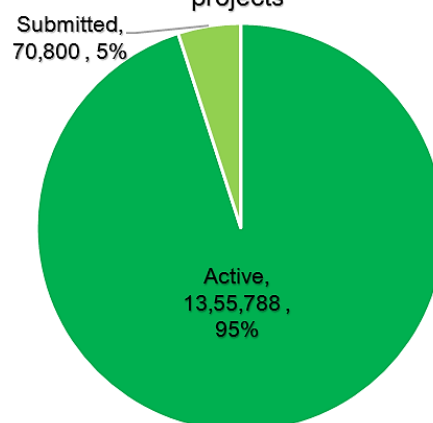


Figure 2: Grant amount in AED for active and submitted research projects

Number of Active and Submitted research projects during 2021

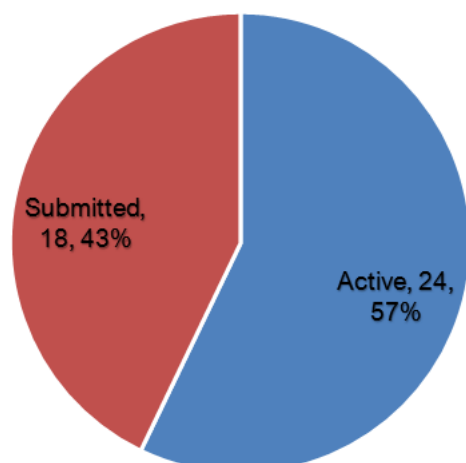
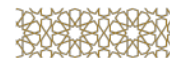


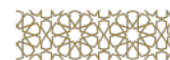
Figure 3: Number of Active and Submitted Research Projects during 2021



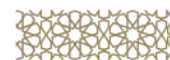


## Status of Faculty Research Grants under each College

Sl. No.	Research Title	Name of Principal Investigator & Co-investigator (PI & Col )
1	Exercises induced myokines' response in diabetic versus healthy participants	PI: Dr. Ramprasad M. Col: Dr. Praveen Kumar, Ms. Aysha Mohamed, Mr. Marwan Ismail
2	Evaluation of Anti-Fungal Activity of Fluconazole Nanovesicles Against Fungal Sinusitis Pathogens	PI: Dr. Ahmed Ahmed Luay Col: Dr. Asaad M, Dr. Abdelgadir Elamin, Ms. Devapriya F, Dr. Ibrahim Elsayed
3	Effectiveness of exercise training on insulin resistance, telomere length, inflammatory markers, functional capacity, and quality of life in patients with type 2 diabetes mellitus- A randomized controlled trial	PI: Dr. Sampath Kumar Col: Dr. Praveen Kumar, Dr. Animesh Hazari, Dr. Mahir khalil Ibrahim Jallo
4	Influence of Kinesiophobia on pain intensity, disability, muscle endurance and position sense in patient with chronic low back pain- A case control study (Under budget allocation)	PI: Dr. Praveen Kumar Col: Dr. Watson Arulsingh, Mr. Sharad S. Patil
5	Clinical Implications of Gait Analysis among people with Type 2 Diabetes Mellitus in United Arab Emirates (Under budget allocation)	PI: Dr. Animesh Hazari Col: Dr. Praveen Kumar, Dr. Sampath Kumar, Dr. Mahir Khalil Ibrahim Jallo
6	Establishment of Diagnostic Reference Levels (DRL) and estimation of DLP to effective dose coefficient in computed tomography in UAE.	PI: Mohamed Abuzaid University of Sharjah, College of Health Sciences, Medical Diagnostic Imaging Department. Co-I: Wadah Mohamed Ali Khogali- Gulf Medical University Col: Leena R. David, University of Sharjah, College of Health Sciences
7	Effect of Low-Level Laser Irradiation in Management of Bells Pals	PI: Dr. Praveen Kumar Col: Dr. Sukumar Shanmugam, Dr. Shaikh Altaf Basha, Mr. Geovinson SG.
8	Evofosfamide potentiates the cytotoxic NK cell killing of hypoxic breast cancer through STING signaling	Goutham Hassan Venkatesh, Walid Shaaban Moustafa Elsayed, Raefa Abou Khouzam, Ayda Shah Mahmood, Husam Hussein Nawafleh, Nagwa Zeinelabdin, Rania Faouzi Zaarour, Salem Chouaib
9	Efficacy of XP-endo Finisher-R in enhancing removal of bioceramic sealer from oval root canal: a micro CT study	Bassem M. Eid, Heba B. Abdel Maksoud, Tarek M. Elsewify.
10	Endodontic guides and ultrasonic tips for management of calcifications	Amal Shaban1 Tarek Elsewify, Ehab Hassanien
11	Accuracy of Two Electronic Apex Locators in Determining Simulated Root Perforation (In Virto Study)	Mohamad Samir, Abeer Elgendy, Tarek ElSewefy



Sl. No.	Research Title	Name of Principal Investigator & Co-investigator (PI & Col )
12	Comparative Evaluation of Cleaning and Shaping Abilities of Two Different Rotary Files (An In Vitro Study)	Abdo M, Elgendy A, Elsewify T.
13	An evaluation of the stress distribution in platform switched small implants placed at different depths and bone densities under various loads – A FEM study.	PI - Dr M Sesah Reddy, CI- Prof. Hossam Abdelatty Eid Abdelmagyd
14	Pre-Exposure Prophylaxis for Covid-19 Infection: Current Concepts and Strategies	Asmaa T Uthman, Noor N Al-Rawi, Natheer Al-Rawi.
15	Neutrophil Extracellular Traps in Coronavirus Infection: Interaction Network Analysis	Amal Bouzid1, Asmaa T Uthman, Noor N Al-Rawi, Natheer H Al-Rawi
16	Magnetism in drug delivery: The marvels of iron oxides and substituted ferrites nanoparticles	Noor Natheer Al-Rawi, Basma Azad Anwer, Natheer Hashim Al-Rawi, Asmaa Tahseen Uthman, Iman Saad Ahmed.
17	Association between maternal periodontitis, acute-phase reactants and preterm birth	Natheer H Al-Rawi, Nada K Imran, Ali A Abdulkareem, Abeer M Abdulsattar, Asmaa T Uthman.
18	Teeth Whitening and Antibacterial Effects of Juglans regia Bark: A Preliminary Study	Riham Al-Rawi, Yusra Bashir, Aseel Mustafa, Mennatalla Omar, Noor Al-Rawi, Musab Saeed, Asmaa Uthman, Natheer H. Al-Rawi
19	COVID-19: Unraveling 10 Most Significant Answers about The Current Pandemic	Asmaa Tahseen Uthman, Noor Natheer Al-Rawi, Bidaa Othman, Natheer Hashim Al-Rawi.
20	Oral Health Knowledge and Attitude of Students In UAE.	Aysha Rashed Al-Suwaidi, Shatha Al-Sharbatti, Sura Ali Al-Bayati
21	Prevalence of Poor Oral Health Practices and Problems Among Students in Ajman, UAE	Aysha Rashed Al-Suwaidi, Shatha Al-Sharbatti, Sura Ali Al-Bayati
22	Oro facial malignancy in north of Iraq: a retrospective study of biopsied cases	Sura Ali Ahmed Foad, Dena Nadhim Mohammad, Marwa Abdul Salam Hamied and Balkees Taha Garib.
23	Targeting tumor hypoxic microenvironment and its associated pathways in order to design an innovative and integrative anti PD1-based cancer immunotherapy approach.	Prof. Salem Chouaib (PI) Dr. Rania Faouzi Zaarour, Dr. Stephane Thiery, Dr. Samir Attoub
24	Comprehensive analysis of hypoxia induced tumor mutational burden and neoantigen generation in breast cancer: Impact on immune surveillance	Dr. Goutham Hassan Venkatesh (PI) Prof. Salem Chouaib, Dr. Byoungkwon Kim, Dr. Prathibha Prasad, Dr. Francis Amirtharaj, Dr. Philippe Dessen, Dr. Jerome Thiery
25	The role of autophagy in mediating the waterpipe smoke induced cell plasticity in lung cancer cell lines	Dr. Rania Fouzi Zaarour (PI) Mohak Sharda, Dr Bilal Azakir, Dr. Raefa Abou Kouzam, Dr. Goutham Venkatesh, Mrs Ayesha Rifath, Mr. Husam Nawafle, Ms. Zohra Nizami, Ms. Fatma Mohammed, Ms. Fatin Abdulla, Dr Yehiya ElSayed, Prof. Salem Chouaib



Sl. No.	Research Title	Name of Principal Investigator & Co-investigator (PI & Col )
26	Application of a hypoxia metric to investigate hypoxia-induced tumor mutational burden and tumor immunogenicity in vitro	Dr Raefa Abou Khouzam (PI) Mrs. Nagwa Ahmed Zeinelabdin, Dr. Mohak Sharda, Mr. Husam Nawafle, Miss Ayda shah Mahmood, Miss Munazza Samar Khan, Dr. Goutham Hassan Venkatesh, Prof Salem Chouaib
27	Study on hypoxia induced tumor mutational burden and neoantigen load in evaluating cancer immunogenicity by using cell free DNA from cell cultures of various cancer cell lines.	Dr Suman Kapoor (PI) Prof Salem Chouaib
28	Study of the role and diagnostic applications of NETs analysis in patients with COVID-19.	Dr Suman Kapoor (PI) Prof. Alain Thierry, Prof Salem Chouaib
29	Investigation of the role and manipulation of Siglecs in the tumor microenvironment in order to improve innate and adaptive anti-cancer immunity	Prof. Salem Chouaib (PI) Dr Mohamed Genead, Dr Michael Tolentino, Mr. Husam Nawafleh, Mrs. Nagwa Zeinelabdin, Mrs. Ayesha Rifath
30	Clinico-Epidemiological characteristics of Covid19 patients: A study from Ras Al Khaimah, United Arab Emirates	Dr. Kalavathy Ramaswamy, Ms. Nazneen zara, Dr. Maryam Alnuaimi, Dr. Yousef Altair, Dr. Jayakumary, Dr. Jayadevan Sreedharan Muttappallymyalil,
31	Level of Acceptance of Covid19 Vaccine and Attributes Influencing Vaccination - A Multi-Centric Study.	Dr. Ramadas Changerath, Dr. Govinda Saicharan Bodi, Dr. Ramaswamy Kalavathy, Dr. Preetha J. Shetty, Ms. Aji Gopakumar, Dr. Shaikha Mahra Sultan Abdulla Majid Almualla, Ms. Syeeda Maleha Jeelani, Dr. Fatima Mohamed Shire, Ms. Nargis Aziz Ali, Ms. Fawaghi Abdulla Sultan Almualla Abdulaziz, Prof. Shatha Al Sharbatti, Ms. Rudhra Seetharam, Prof. Jayadevan Sreedharan
32	Prevalence and associated factors of non-communicable diseases among truck drivers in the UAE	Dr Jayakumary Muttappallymyalil, Dr. Ramadas Changerath, Dr. Preetha J. Shetty, Dr Yousef Altair, Dr. Ramaswamy Kalavathy, Ms. Aji Gopakumar, Adama Sani Usman, Dr Sonal Lavakumar, Dr. Omar Sadek, Aadith Soorya, Abdulla Abdulraoof Alsayed Mohamed Sharaf, Abdulla Hussain Murad Ahmad Alblooshi, Prof. Jayadevan Sreedharan,
33	The fimA genotype variants of Porphyromonas gingivalis amongst the UAE population in periodontal health and disease- A case control study.	Dr. Sunaina Shetty Yadadi, Dr. Betul Rahman, Marwan Mansoor Ali Mohammed, Dr. Anirudh Acharya, Priyadarshini Sekar, Dr. Preetha J Shetty.



Sl. No.	Research Title	Name of Principal Investigator & Co-investigator (PI & Col )
34	Impact of ScholarRx integration, into the pre-clinical curriculum, on student learning in Gulf Medical University	Dr. Gomathi Kadayam Guruswami, Dr. Janita Rita Trinita Pinto, Prof. Manda Venktramana
35	Impact of Introduction of a short course on nasopharyngeal anatomy and swab collection on the knowledge and skills of health professions' students.	Dr Sapna Shevade, Prof. Gomathi Kadayam Guruswami, Dr Rohit Gulati
36	Discovery of Biomarker Risk Panel for Severe Obesity in Saudi Arabian Families using integrated Genetics, Genomics and Metabolomics Technologies	Prof. Noor A Sheik, Prof. Abdul Malik Altaf, Dr. Abdul Hadi Bima, Dr. Deema Aljeaid, Dr Noura N Sahly, Dr. Prashant Kumar Verma, Dr. Rabbani Syed, Dr. Preetha J Shetty
37	Immunogenicity and efficacy of Sinopharm vaccine administered to UAE residents	Dr. Nazeerullah Rahamathullah, Dr. Preetha Jayasheela Shetty, Prof. Jayadevan Sreedharan, Prof. Salem Chouaib, Prof. Manda Venkatramana, Dr. Nasir Parwez, Dr Suman Kapoor
38	Design, synthesis and biological evaluation of some pyrazolopyrimidine compounds as potential anti-cancer drugs (Part 1)	Dr. Ahmed Al-Abd, Dr. Ahmed Thabet, Walid Shaaban Moustafa
39	Design, synthesis and biological evaluation of some pyrazolopyrimidine compounds as potential anti-cancer drugs (Part 2)	Dr. Ahmed Al-Abd, Dr. Ahmed Thabet, Walid Shaaban Moustafa
10	Design and synthesis of novel mitochondrial targeted $\alpha$ , $\beta$ - unsaturated carbonyl compounds as novel potential anticancer agents	PI: Dr. Eman El-labbad Col: Dr. Ahmed Al-Abd
41	Formulation and Optimization of a Novel 18 beta-Glycyrrhetic acid Loaded Nano-delivery System for Management of Neurodegenerative Multiple Sclerosis	PI: Ibrahim Elsayed
42	Process Optimization and Formulation of Hydrogel Containing Acyclovir for Enhanced Dermal Permeation	PI: Dr. Shery Jacob

Table 2: Status of Research Grants under each College, AY 2020-2021



## Membership of GMU Center for Advanced Simulation in Healthcare (CASH)

CASH at Gulf Medical University is a multidisciplinary educational facility that provides high-tech simulated and virtually created hospital set-up for clinical and communication skills teaching and training for all health care professionals. The GMU Simulation Center offers Training Programs & RCPE Online Courses to doctors, nurses and other health professionals. CASH is an AHA-accredited life support training site which offers BLS & ACLS courses regularly as well as NAEMT Accredited training Site which offers PHTLS. CASH is officially declared as an international centre to run the MRCPUK PACES examination twice annually. CASH is a member of simulation related professional bodies like SESAM, ASPE, ASSH, SSH ([Link](#))

### CENTER FOR ADVANCED SIMULATION IN HEALTHCARE (CASH) ACCREDITATIONS AND MEMBERSHIPS

National Association of Emergency Medical Technicians (NAEMT) Accredited training Site which offers Prehospital Trauma Life Support (PHTLS).

American Heart Association (AHA)-Accredited life support training center which offers Basic Life Support (BLS) & Advanced Cardiac Life Support (ACLS) courses

Officially declared as an International center to run MRCPUK PACES (Membership of the Royal Colleges of Physicians of the United Kingdom- Practical Assessment of Clinical Examination Skills) examination twice annually.

Member of simulation related professional bodies like SESAM (Society in Europe for Simulation Applied to Medicine), ASPE (Association of standardized patient education)







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