Her Highness Sheikha Moza Bint Nasser, Chairperson of Qatar Foundation
Over the past 12 months, we have continued to make remarkable advancement in our tripartite mission of excellence in education, research and clinical care.
I am very proud to introduce this annual report of Weill Cornell Medical College in Qatar. Over the past 12 months, we have continued to make remarkable advancement in our tripartite mission of excellence in education, research and clinical care. It is my pleasure to share the highlights of our progress with you.

WCMC-Q has implemented a strategic plan, Vision 2010 – 2015. This plan provides us with direction and focus for the next five years and is, indeed, a roadmap for even greater achievements. The plan is aligned to Qatar’s National Vision 2030 and supports its goal of establishing an increasingly knowledge-based economy.

In May, we graduated our fourth and largest class of physicians. One of the key elements of WCMC-Q’s strategic plan is to augment our Qatari enrolment and we are delighted to report that the Medical Class of 2011 includes the largest number of Qataris in our graduating class history to date.

WCMC-Q collaborated with Carnegie Mellon University (CMU) in Pittsburgh and Doha to develop a joint program of multiple career pathways for its Pre-medical students. In addition to the option of gaining admission to the Medical program, students will now have the opportunity to gain a Bachelor degree in Biological Sciences.

To accommodate our growing biomedical research program, we opened newly renovated labs and offices that double the size of space allocated to research. In the coming years, the work of these labs will contribute to understanding, preventing and treating many of the diseases that frequently occur in Qatar.

WCMC-Q celebrated the graduation of the first students of the Biomedical Research Training Program for Qatari Nationals. Open to Qatari Nationals who are college graduates with degrees in
disciplines related to science, the Biomedical Research Training Program is an extension to the Qatar Science Leadership Program (QSLP) established by the Research Division at Qatar Foundation.

WCMC-Q hosted a prestigious international conference on diabetes and related disorders in conjunction with Qatar Foundation and the Giovanni Lorenzini Medical Foundation in Milan, Italy. The XVII International DALM Symposium (Drugs Affecting Lipid Metabolism) was the first international research conference held by WCMC-Q in Doha, and represented a significant milestone in the college’s plan to build a world-class biomedical research program in Qatar.

The Academic Health System (AHS), a joint initiative between WCMC-Q and Hamad Medical Corporation and the first of its kind in the region, was launched in August. The AHS comprises partnerships between Qatar’s leading learning and research institutions and healthcare providers and aims to develop high-quality patient care and a healthy population through academic excellence and pioneering research. The AHS will provide unique opportunities for inter-professional education and contribute significantly to building a skilled biomedical workforce for Qatar.

We are consistently inspired by the visionary leadership of His Highness Sheikh Hamad Bin Khalifa Al-Thani, Emir of Qatar, and Her Highness Sheikha Moza Bint Nasser, chairperson of Qatar Foundation for Education, Science, and Community Development. Their esteemed commitment and support of Education City provides a cornerstone on which we are building a world-class medical college in Qatar. This is an exciting time at WCMC-Q and we firmly believe that all who take part will enjoy the exhilaration and satisfaction of blazing a trail in this new era of knowledge.

Javaid Sheikh, M.D.
Dean
The Joint Advisory Board provides advice and assistance to the dean and the governing parties of WCMC-Q. It consists of four members selected by Cornell University, four members appointed by Qatar Foundation, three additional independent members who are selected jointly by Cornell and Qatar Foundation, and four ex-officio members.
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Javaid I. Sheikh, M.D.
Dean
Weill Cornell Medical College in Qatar

Havva S. Idriss
Vice Dean for Administration
Weill Cornell Medical College in Qatar
In May 2011 WCMC-Q celebrated the largest graduating class in the history of the college.
Medical students continue to thrive in Weill Cornell Medical College-Qatar’s (WCMC-Q) stimulating learning environment. The first-year medical college class numbered 41 students, and 31 students graduated in May 2011, the largest graduating class in the history of the college. Faculty, staff and administration have enthusiastically welcomed the increased number of students and continue to deliver an outstanding program.

Graduating students received their medical degrees in a ceremony at the Ritz-Carlton Hotel in Doha with an audience of family, friends, and college staff and faculty from Doha and New York. They later traveled to the U.S. to take part in the WCMC-NY graduation ceremony.

Mohammad Fathy Saoud, Ph.D., President of Qatar Foundation said, “We applaud the students’ determination and hard work. Their accomplishments and the increasing size of the graduating class are evidence that we are making real progress towards our goal of building a knowledge-based society in Qatar. As they move ahead in the medical profession, they take our commitment to excellence in education and research with them beyond our borders, out into the world.”

The graduating class demonstrated outstanding achievement in the U.S. residency match. Twenty-three WCMC-Q students were matched to U.S. residency training programs in a variety of medical specialties. Dr. Javaid Sheikh, Dean of WCMC-Q, said, “WCMC-Q students were accepted into residency training programs at some of the best teaching hospitals in the United States, competing successfully with graduates of American medical schools. This is the largest graduating class and the best match in the history of our school.”

Other WCMC-Q graduates chose to join residency programs at Hamad Medical Corporation (HMC) in Qatar or are pursuing research fellowships in the U.S. and Qatar.
Stephen M. Scott, M.D., was appointed Assistant Dean for Medical Education and Assistant Dean for Clinical Curriculum in September 2010. He is the Associate Professor of Family Medicine and a consultant at HMC. Dr. Scott joined WCMC-Q as a faculty member in October 2009 and is involved in teaching, advising and administration throughout the four years of the Medical Program.

Also in September 2010, Ziyad Mahfoud, Ph.D. was appointed Associate Professor of Public Health. Prior to coming to WCMC-Q he served as an Assistant Professor in the Department of Statistics and School of Public Health at the University of Kentucky and as Assistant Professor in the Department of Epidemiology and Population Health at the American University in Beirut. Dr. Mahfoud holds a Ph.D. in Statistics at the University of Florida. An outstanding teacher, Dr. Mahfoud was selected to receive the WCMC-Q Teaching Excellence in the Medicine, Patients, and Society 1 course award by a vote of the first-year class.

The Medical Education program continues to focus its activities on three major areas: enhancing curriculum delivery and student assessment, building faculty resources, and implementing a strategic plan for residency program placement.

Dr. Lyuba Konopasek, the Associate Dean for Medical Education, as well as the Assistant Dean for Curriculum Dr. Lotfi Chouchane and Dr. Stephen Scott, have joined colleagues in New York on the Education Unit to plan curriculum reform. Dr. Konopasek is leading the work group on developing a clinical reasoning curriculum. We are also collaborating with faculty in New York in implementing a new curriculum on obesity and the metabolic syndrome, an area particularly relevant to our patient population in Qatar.
The Department of Medical Education’s first day-long Curriculum Retreat, “Beyond Flexner: Reflection and Reform”, was held in February. The retreat was developed and implemented by the Medical Education Deans at WCMC-Q. The plenary speaker was Dr. Carol Storey-Johnson, Senior Associate Dean of Education at WCMC-NY. At the retreat, she explained the curriculum reform process at WCMC-NY and opportunities for faculty engagement.

At the curriculum retreat, five work groups each addressed an area prioritized for discussion by the faculty: Integration of Foundational Sciences and Clinical Curriculum, Clinical Reasoning, Enhancing the Learning Environment, Inter-professional Education, and Meeting Societal Needs. Faculty, students and staff worked to generate ideas for curricular change informed by scholarly evidence, experience and local context. Next steps include collaborations between faculty in Doha and New York to address common curricular themes.

Faculty have been working to make learning in the classroom more active and effective. The basic science course directors are meeting monthly for brainstorming sessions to make lectures more interactive and to promote skills of analysis and synthesis in class. Course directors piloted the use of the audience response system to engage students in active problem solving in class. Additionally, we have implemented the new basic science National Board of Medical Examiners subject exams to provide students with additional practice in USMLE-style test taking and early opportunities for self-assessment.

A Pass/Fail grading system was implemented in years 1 and 2 at WCMC-Q in concordance with the new policy at WCMC. Students, faculty and course directors have endorsed the new system. Students feel that it has contributed positively to their learning climate, and course directors feel that the students are performing very well academically.
Medical students continue to thrive in WCMC-Q's stimulating learning environment
Providing effective feedback to learners is essential to their academic progress and ongoing professional development. Ensuring that students and faculty understand expectations of achievement as well as effective methods for delivering and eliciting feedback is important. We are currently addressing the timeliness, quality and new strategies for feedback delivery through faculty development, new guidelines, and close monitoring of grade submission. We are reviewing student assessment forms to ensure validity and reliability. We are also examining both quantitative and qualitative assessment measures, including written comments. We are addressing these issues in student and faculty orientations, curriculum committees, and other meetings with students and faculty.

Faculty development continues to be a major focus for medical education. Current faculty development initiatives are focusing on teaching and assessing professionalism, providing effective feedback, and enhancing student assessment. Additionally, basic science course directors have been participating in a workshop focusing on educational management. Most clerkship directors have attended faculty development sessions at their specialty-specific national meetings. This year 12 WCMC-Q faculty members have presented peer-reviewed posters, oral presentations, and/or workshops at regional and U.S. medical education meetings. This is a remarkable increase in WCMC-Q’s educational scholarship and is essential to enhancing our visibility and reputation in the international medical education community.

We are also providing opportunities for local faculty development both at WCMC-Q and at HMC. We are collaborating with HMC to deliver workshops on a number of topics, including communication skills, professionalism, assessment and feedback. Our new program, Conversations in Medical Education, continues to foster intellectual exchange on medical education literature. Several faculty members have initiated webinar programs via a virtual platform featuring leaders in medical education. Through these webinars, WCMC-Q faculty were able to learn about team-based learning and new strategies for evaluation.
The Great Teachers’ Retreat, an Education City-wide collaborative initiative, took place over three days in February and offered WCMC-Q’s faculty the opportunity to identify best practices for teaching and learning. Live video conferences of Pediatric and Surgery Grand Rounds from WCMC continued to be delivered at WCMC-Q and were attended by faculty based in the college as well as those based at HMC. We are encouraging all faculty members to engage in educational scholarship projects to build their portfolio as educators and to demonstrate innovations in medical education at WCMC-Q.

**Strategic Planning for Residency Program Placement**

A strategic five-year plan for enhancing residency placement success has been developed and is being implemented. This plan includes optimizing learner academic success, designing a longitudinal career and residency placement advising system, and building relationships with residency programs and academic medical centers. This year we have established a new faculty advising program for first-year medical students in order to promote professional identity development and assist with career decision making.

Enhancing the residency application process has been a major focus of our activities this first year. We have implemented a new residency placement advising system with each student assigned two advisors in their specialty choice, one in Doha and another in New York. We have also actively supported the students’ application process with a new system of personal statement and CV editors, drawn from the pre-med and medical faculty as well as the library staff to complement the workshops provided by the Writing Center. Students prepared for the interview season in mock interview sessions conducted by our faculty members and HR staff in the Clinical Skills Center. Finally, we are building a database of residency programs to help our students select best options for application. This database will also be useful in targeting residency programs and academic medical centers for relationship building.
WCMC-Q’s Graduate Medical Education (GME) department has continued its collaboration with HMC to prepare the residency programs for accreditation by the Accreditation Council for Graduate Medical Education International (ACGME-I). This included developing and reviewing the required documents for the establishment of the Institutional and Program infrastructure as well as providing one-to-one consultation to Program Directors to develop curricula and assessment instruments that would meet the requirements of the ACGME-I.

Several of the WCMC-Q faculty are involved in this process, either in their own departments or in cross-departmental projects. Drs. Dora Stadler and Mai Mahmoud have been instrumental in assisting in the restructuring of the outpatient clinical experience in the Department of Medicine, Dr. Mohamud Verjee in educating about OSCE, Drs. Mamoon Elbedawi, Amal Khidir, Marcellina Mian, Hassen Al Amin, Ziad Kronfol and Hina Ghory in the development of the curricula for their respective programs.

**Faculty Development in Graduate Medical Education**

Our faculty members participated in teaching at the Clinical Teaching workshop organized by the GME department in collaboration with HMC’s Department of Medical Education for faculty. Furthermore
A two-week faculty development program related to GME topics was organized by HMC’s Department of Medical Education in collaboration with the University of Illinois in Chicago (UIC). Several faculty members from WCMC-Q participated and presented in areas of Competency Based Education, Supervision, Assessment Tools and Feedback. The GME office hosted two days of this event which were allocated to residents.

**Resident Selection**

In December 2010, faculty and staff from WCMC-Q participated in the Multiple Mini Interviews (MMI) conducted at HMC. The MMI is one of the processes used to select physicians applying for the residency program at HMC. The office of GME has also successfully completed the administration of the International Foundations of Medicine Clinical Science Examination for physicians applying to the residency programs at HMC. This examination can be used as an alternative to the USMLE in residency selection in international ACGME-I accredited programs. There were 271 examinees for the exam on October 2nd and 27 proctors from both WCMC-Q and HMC administered the exam.
Program Coordinators Training

The GME department, in collaboration with HMC’s Department of Medical Education, organized a workshop to train program coordinators at HMC. The workshop included training in the role of program coordinators, introduction to ACGME/ACGME-I competencies, and an overview of Graduate Medical Education and the accreditation process.

Conferences

The work of the GME office this year has resulted in two oral presentations during the ACGME meeting in March 2011 in Tennessee, USA. One paper was delivered by Dr. Dora Stadler, Assistant Professor of Internal Medicine at WCMC-Q and Dr. Abdulhalim Ethiday, Consultant at HMC. The second was by Dr. Thurayya Arayssi, Associate Professor of Medicine and Associate Dean for GME at WCMC-Q and Dr. Ismail Helmi, Deputy Director of Medical Education at HMC and Assistant Dean for Education at WCMC-Q.

WCMC-Q Attracts Talented Students from Qatar and the Region

In August 2010, we welcomed 65 students into the Pre-medical and Foundation Programs. Forty-eight students joined the Pre-medical Program and 17 students joined the Foundation Program.

Marco Ameduri, Ph.D., has been appointed Associate Dean for Pre-medical Education. Dr. Ameduri obtained his M.S. and Ph.D. degrees from Cornell University and prior to coming to WCMC-Q he was a Guest Scientist at the Max Planck Institute for the Physics of Complex Systems in Dresden, Germany. In 1996, he received the John M. and Emily B. Clark distinguished teaching award at Cornell University. A member of the American Physical Society, Dr. Ameduri joined WCMC-Q in 2002 as Senior Lecturer in Physics. He served as Assistant Dean for Pre-medical Education from 2008-2009. In 2009, he was appointed as Assistant Dean for Student Affairs. With his most recent association and experience in that role, Dr. Ameduri will also provide the much-needed bridge to better integrate the Pre-medical program in the overall mission of the college.
Multiple Career Pathways for Pre-medical Students

The collaborative effort between WCMC-Q and Carnegie Mellon University in Qatar [CMU-Q] led to the creation of undergraduate degree programs in Biological Sciences and in Computational Biology at CMU-Q. Students may enter the program at CMU-Q either directly from high school or as transfer students from the Pre-medical Program at WCMC-Q. The course requirements for these degrees will be shared by CMU-Q and WCMC-Q. WCMC-Q will provide Physics I and Physics II, Biochemistry, Organic Chemistry I and II, and Organic Chemistry Laboratory, as well as biology elective courses (introductory neuroscience and immunology courses).

The synergy between the two institutions will lead to increased enrollment in the Medical Program at WCMC-Q, as well as provide the country with highly trained graduates who will contribute to the development of medical science and healthcare in Qatar.

Structured Training for Teaching Assistants

This year the training sessions for Teaching Assistants [TAs] have been substantially expanded. The TAs, all of whom have recently earned a bachelor’s degree from Cornell University, support student learning in the vast majority of Foundation and Pre-medical courses. To increase their teaching effectiveness we have introduced a semester-long series of interactive training sessions under the leadership of experienced faculty and staff.

Enhancement to Peer-tutoring Program

There has been enhanced collaboration between Pre-medical and Student Affairs departments to strengthen the peer-tutoring program, focusing especially on training of the peer tutors and coordination of educational efforts between peer tutors and teaching assistants.
Application Process Replaced

Foundation Program students are offered a personalized curriculum, consisting of an appropriate selection of pre-medical courses, college preparatory (Foundation) courses, and English as Second Language instruction, along with support in language and study skills.

At the end of the Foundation year, students will be automatically promoted upon review of their performance. This procedure replaces the application process currently required of Foundation Program students wishing to continue in the Pre-medical Program. The advantages of this approach are greater flexibility and personalization, capitalizing on the strengths of each student, stress reduction for students by removal of an admission gate and homogeneous class composition in the college preparatory courses.
Faculty work directly with patients to deliver excellence in patient care across the sector
Clinical Affairs supports activities of WCMC-Q that deliver clinical services to patients in Qatar. Faculty work directly with patients to deliver excellence in patient care and WCMC-Q works collaboratively with major healthcare providers to help deliver excellence across the sector.

Regional and international healthcare leaders and experts gathered in Doha in August to mark the formal launch of a new healthcare and education system. The Academic Health System (AHS) is a joint initiative between WCMC-Q and Hamad Medical Corporation (HMC), and is the first of its kind in the region.

The AHS comprises partnerships between Qatar’s leading learning and research institutions and healthcare providers. The new system will offer a shared milieu for the integration of education, research and patient care. This platform for collaboration will provide a fertile environment where students can learn and apply state-of-the-art knowledge from the classroom, to the laboratory, to the bedside.

In line with Qatar’s National Vision 2030, the AHS will serve as an engine of health innovation, accelerating the translation of new knowledge into cost-effective leading practices, new models of organizing and delivering care, breakthrough drugs and medical devices. Ultimately this historical initiative will revolutionize the diagnosis and treatment in the community and improve health outcomes both locally and globally.

The Clinical Affairs department has continued to grow with the recruitment of a new physician to the clinical faculty team and an increase in the number of weekly clinics delivered to the community.

Last August Alice Abdel-Aleem, M.B.B.Ch., M.D., joined us as the Assistant Research Professor of Neurology. Before joining WCMC-Q Dr. Abdel-Aleem was the Professor of Molecular Human Genetics in the Medical Molecular Genetics Department at the National Research Centre (NRC) in Cairo, Egypt. Whilst there, she was closely involved in the establishment of two new research centers; a core molecular diagnostic and research laboratory at the National Institute of Neuromotor System for the Ministry of Health and the first human stem cell research unit at the NRC. She also led
the diagnostic services concerned with several neurogenetic and skeletal diseases at the medical service unit of the NRC.

Over the course of the past year, six of our physicians have been granted licenses to practice medicine in Qatar from the Supreme Council of Health, and five of them were credentialed at Hamad. The number of clinics conducted by the entire WCMC-Q Clinical Faculty team has risen from 12 to approximately 20 clinics per week in the last year.

WCMC-Q continues to work collaboratively with healthcare providers across Qatar in order to help deliver the best medical care to all in the community. Dr. Bakr Nour, Professor of Surgery, Associate Dean for Clinical Affairs, Vice Chair of Surgery and a Consultant at HMC has brought more cutting edge surgical procedures to HMC. He says, “Being part of a team that is committed to delivering the best in patient care and ensuring the highest standards in education means that clinical faculty are always staying abreast of the latest medical developments which translates into the highest standards of patient care.”

WCMC-Q faculty are contributing to an ever-improving healthcare system in Qatar across many HMC hospitals, including Psychiatry and the Women’s Hospital; Outpatient departments and clinics. The partnership with Sidra Medical and Research Center signed during the year will afford great opportunities for WCMC-Q faculty to work in the world-class, all-digital facility.

Dr. Thurayya Arayssi, Associate Dean for Graduate Medical Education and Consultant at HMC, has continued her collaboration with Aspetar Orthopaedic and Sports Medicine Hospital delivering a weekly clinic. Whilst Dr. Mohamud Verjee, Assistant Professor of Family Medicine in Medicine and an HMC Consultant holds up to three clinics a week in West Bay and Gharaffa Health Centers, as well as providing support to HMC affiliated Family Physicians in Qatar’s Community Health Centers.
The obstetric and gynecology activities of the clinical faculty have continued to expand with Dr. Nady Mohamed, Assistant Professor of Obstetrics and Gynecology, and Dr. Jeremie Arash Rafi Tabrizi, Assistant Professor of Genetic Medicine in Obstetrics and Gynecology, holding regular clinics at HMC’s Women’s Hospital, as well as providing gynecology/laparoscopic surgery and gynecology oncology services.

Dr. Kristina Sole, Clerkship Director for Obstetrics and Gynecology, has further expanded these activities beyond outpatient care to become one of the first full-time WCMC-Q faculty members to deliver babies. Dr. Sole also holds weekly clinics at the Women’s Hospital and oversees medical student resident education.

Three neurology clinics are held weekly, two by Dr. Basim Uthman, Professor of Clinical Neurology, and one by Dr. Leopold Streletz, Associate Professor of Neurology. Dr. Javaid Sheikh, Professor of Psychiatry and Dean of WCMC-Q, holds a weekly psychiatric clinic at the Psychiatry Hospital, HMC, as does Dr. Ziad Kronfol, Professor of Psychiatry and Dr. Hassen Al-Amin, Associate Professor of Psychiatry and Associate Dean for Faculty Affairs. Also at HMC, Drs. Dora Stadler, Assistant Professor of Medicine, and Mai Mahmoud, Assistant Professor of Medicine, hold weekly outpatient clinics. Dr. Mamoon Elbedawi, Associate Director of the Basis of Disease Course, has a twice-weekly Internal Medicine, Gastroenterology clinic and Dr. Amal Khidir, Assistant Professor of Pediatrics, has twice-weekly pediatric HMC outpatient clinics.
Fourth-year medical students, Mohammad Al Baba and Mohammad Al Hijji at Aspetar
In November, three WCMC-NY physicians participated in HMC’s 2nd Qatari Ophthalmology Conference on Ocular Trauma. Dr. Donald D’Amico, Ophthalmologist-in-Chief and Professor of Ophthalmology, delivered the keynote lecture on principles in the diagnosis and management of traumatic retinal detachment at the Opening ceremony. Dr. Szilard Kiss, Assistant Professor of Ophthalmology and Dr. Edward Lai, Assistant Professor of Ophthalmology, both at WCMC-NY, participated in the event which was held at the Sharq Village and Spa Hotel over three days.

Clinical Faculty members met with physicians from the US Airbase at Al Udeid in Qatar in January 2011. The aim was to reinstate the clinical scientific meeting that was previously held in WCMC-Q with participation from the US military physicians, which is a class educational event enjoyed by WCMC-Q students. The physicians also had a tour of the WCMC-Q building hosted by Public Affairs.
WCMC-Q is in the process of establishing a world-class biomedical research program that spans the basic, translational, clinical and public health arenas
WCMC-Q’s Biomedical Research Program (BMRP) has made notable progress in establishing the foundation for a world-class biomedical research program in Qatar.

To accommodate our growing biomedical research program, we opened newly renovated labs and offices that have doubled the size of the space allocated to research. We now have 18 faculty laboratories investigating broad areas of biomedical sciences from basic molecular pathways to clinical areas of interest.

Furthermore we have established seven centralized core support laboratories and a robust administrative infrastructure. In the coming years, the work of these labs will contribute to understanding, preventing and treating many of the diseases that frequently occur in Qatar.

The core labs provide centralized functionalities and platforms that are not realistically achievable in individual laboratories. They provide an essential support infrastructure for the advancement of biomedical research in Qatar and are available to biomedical researchers, with priority given to WCMC-Q researchers. The establishment of these core labs has created a modern research support infrastructure that empowers existing scientists and is attractive to potential recruits.

The core labs include a Genomics Core, directed by Joel Malek, M.S., which provides a full range of modern genomics analyses; Imaging Core directed Khaled Machaca, Ph.D., provides advanced functionalities for cellular imaging and the Proteomics Core, directed by Johannes Graumann, Ph.D., focuses on quantitative proteomic approaches and post-translational modifications of proteins. There is also the Bioinformatics Core, directed by Karsten Suhre, Ph.D., Biostatistics Core, directed by Laith Abu Raddad, Ph.D., Stem Cell core headed by Jeremie Arash Rafii, M.D., Ph.D., and the Basic Core that provides basic functionalities.

These developments are complemented by the exponential growth in research staff recruitment. The result is that this year the number of research personnel at WCMC-Q working to execute the BMRP totals nearly 100. In this way the research department is contributing to the objectives of WCMC-Q’s Vision 2010–2015 Strategic Plan in developing as a center of excellence in biomedical research.
The BMRP intends to build human capital and improve scientific discovery and is already contributing to Qatar’s international profile as an emerging hub for research. The Office of Clinical Research Support will establish and manage a reliable central sample repository and this service will be provided to all clinical investigators. An important component for success in translational research is the establishment of adaptable and sustainable clinical research programs in collaboration with HMC and Sidra.

Officials from Qatar Foundation and Weill Cornell Medical College signed an affiliation agreement in October 2010. Under the affiliation agreement, WCMC-Q will be the primary partner for Sidra Research and Medical Center.

Sidra is due to operate with 400 beds and will focus initially on providing specialty care for women and children with select medical and surgical services for all adults. His Highness Sheikh Hamad Bin Khalifa Al-Thani, Emir of the State of Qatar, has provided Sidra Medical and Research Center with an endowment of several billion dollars, the largest endowment for any academic medical center in the world. It is anticipated that a large segment of the operational budget will be spent on research.

Mohammad Fathy Saoud, Ph.D., President of Qatar Foundation and a member of the Joint Advisory Board for Weill Cornell Medical College in Qatar, said, “There are many excellent hospitals in this region, but none of these hospitals have an affiliation with a prestigious university in the United States. The great medical schools and hospitals are the ones that contribute new knowledge, new procedures and new treatments. This cannot be done without research investment and you cannot attract the very top quality health professionals unless you provide them with opportunities and funding for research.”

WCMC-Q hosted a prestigious international conference on diabetes and related disorders in conjunction with Qatar Foundation and the Giovanni Lorenzini Medical Foundation in Milan, Italy. The XVII International DALM Symposium [Drugs Affecting Lipid Metabolism] was the first international research conference held by WCMC-Q in Doha, and represented a significant milestone in the college’s intention to build a world-class biomedical research program in Qatar. More than 600 scientists, physicians and other healthcare
practitioners from around the world shared the latest research on the causes and treatment of diabetes, obesity and the metabolic syndrome.

Dean Javaid Sheikh, M.D. co-chaired the symposium with Rodolfo Paoletti, M.D., president of the Lorenzini Foundation and Antonio Gotto, M.D., Dean of Weill Cornell Medical College in New York. “We are helping implement the vision of Her Highness Sheikha Moza Bint Nasser to build a knowledge-based economy in Qatar,” said Dr. Sheikh. “Qatar contributes 2.8 percent of its gross domestic product to research and development, an amount comparable to that spent by the United States, but well in excess of the 0.2 percent of GDP spent by other countries in the Middle East region.”

In May 2011, WCMC-Q hosted the Cardiovascular Research Symposium aimed at highlighting research that is underway at both WCMC-Q and Qatar University in the area of diabetes, hypertension and cardiovascular disease. The symposium was initiated by Dr. Chris Triggle, Professor of Pharmacology at WCMC-Q and was attended by over 50 scientists.
Among the many workshops and research seminars held over the past year was the WCMC-Q sponsored Neurogenetics Workshop in April 2010. The two-day workshop was held in collaboration with Hamad Medical Corporation and Shafallah Medical Genetics Center. Experts from Qatar, the United States and Italy presented the latest scientific information regarding diagnostic features of brain malformations encountered in Qatar and the Arab populations in the region.

The conference brought together 150 scientists to discuss strategies for optimizing brain imaging, management of seizures and of other medical issues commonly encountered in patients affected by these disorders. Conference participants were invited to bring their most challenging cases for discussion to advance diagnosis.

The WCMC-Q research program is already contributing to Qatar’s international profile as an emerging hub for research. WCMC-Q faculty published 55 peer-reviewed papers in prestigious international journals including Science, Nature, Proceedings of the National Academy of Sciences, Lancet and PLoS MEDICINE, to name a few.

Among them, and one that gained widespread coverage throughout Qatar and the region, was the work of Joel Malek, Director of Genomics Core at WCMC-Q. As the senior author of a study on a region of the date palm genome linked to gender, he helped make it possible to quickly and easily identify male and female trees for the first time. This crucial piece of information greatly facilitates additional genetic studies as well as cultivation and propagation of the date palm.

The study was published in the journal Nature Biotechnology and conducted with cooperation from the Biotechnology Center at the Ministry of Environment. How date palm gender is determined has been a question for thousands of years with numerous theories presented in the past. We now have the first DNA sequence evidence that it is under genetic control. This knowledge will help to find solutions to problems faced by date palm plantations in Qatar, especially as far as diseases are concerned and will benefit both agriculture and environment sectors.
A study to estimate the incidence of hepatitis C virus (HCV) infection in Egypt was published in *Proceedings of the National Academy of Sciences (PNAS)* medical journal. The study found that Egypt has the highest average rate of new HCV infections in the world, at a rate of approximately seven infections for every 1,000 Egyptians. The study was conducted by Dr. Laith Abu-Raddad, Assistant Professor in Public Health, Director of the Biostatistics, Epidemiology and Biomathematics Research Core at WCMC-Q and the Principal Investigator of the Infectious Disease Epidemiology Group. The study provided a scientific estimate of HCV incidence in Egypt for the first time. It was among the top highlighted articles in *PNAS* and its findings were covered by a number of influential media outlets such as *Al Jazeera, Los Angeles Times* and *Nature Middle East*.

Dr. Laith Abu-Raddad also collaborated in a study with Dr. Joshua Schiffer and the HSV-2 Biology Group at the University of Washington on the viral dynamics of the herpes simplex virus type 2 (HSV-2) within human hosts, and how the virus is activated and suppressed by the different mechanisms of the immune system. The study was also published in *Proceedings of the National Academy of Sciences (PNAS)* medical journal and introduced new concepts that may lead to new insights in understanding the virology of HIV and its interaction with the immune system.
With world-class scientists at the helm, WCMC-Q are performing leading research that targets the most pressing health needs in Qatar and the region.
The Qatar Science Leadership Program (QSLP) is a training program managed by the research division at Qatar Foundation. WCMC-Q is one of the institutions taking part in the program. To date, eight Qatari Nationals have been trained at WCMC-Q in both Science and Administration.

The Summer Student Research Program (SSRP) expands the educational experience of WCMC-Q pre-medical and medical students by exposing them to research early on in their career. Twenty-four pre-medical and medical students have participated in the program this year.

The Research Specialists and Clinical Coordinators Program is a critical training program that underscores WCMC-Q’s commitment toward human capacity building in Qatar. WCMC-Q has recruited and locally trained 48 research specialists and clinical coordinators. These scientists are graduates of local and regional universities, primarily Qatar University. This is an on-the-job training program that offers candidates a position in a research lab coupled with training in specialized techniques that matches that lab’s expertise.

The WCMC-Q Training Program for Qatari Nationals was launched during 2011. This program is organized in close coordination with Qatar Science Leadership Program (QSLP) administered by the research division at Qatar Foundation. It is aimed at recent graduates who are interested in pursuing a career as a bench scientist, clinician or biomedical researcher. It is a full time course lasting six months and trainees receive a stipend and a graduation certificate on completion.

Training and outreach are vital to generating sustainable human capital and enhancing the transfer of technology and expertise to Qatar. In summary, the growth and expansion of the WCMC-Q program required strong support from the leadership at Qatar Foundation and the establishment of an organizational structure and administration that is well adapted to local needs and culture. The WCMC-Q research program is built on broad-based collaborations among local stakeholders coupled with the recruitment of outstanding faculty in Qatar to tackle important health problems for the country and the region. We have greatly emphasized the establishment of a sustainable local human research capacity through training and outreach programs. In addition we assembled cutting-edge platforms in the context of the research cores to enhance the research environment and collective scientific capabilities.
As part of WCMC-Q’s mission to deliver excellence in education, research and clinical care, a new department was set up to promote well-being and health.
As part of WCMC-Q’s commitment to reaching out to the community and beyond, a new department was set up, the Department of Global and Public Health (GPH). Under the leadership of the Associate Dean for Global and Public Health, Dr. Ravinder Mamtani, the overall goal is to advance the mission of WCMC-Q in education, research and patient care and community related matters, as well as promoting the wellbeing and health of people in the State of Qatar.

The department has developed, implemented and contributed to several activities with Dr. Sohaila Cheema as manager of the department. There was the Summer Global Health Experience, a new initiative whereby two first-year medical students traveled to a developing country to discover how medicine is practiced there. The students spent seven weeks at Weill Bugando, the largest hospital in Mwanza, Tanzania where the students engaged in learning and research activities.

Foundation and pre-medical students took part in the Global Health and Disease course. The one credit course teaches concepts related to health and disease such as disease causation and prevention; global and public health; health problems of developing and developed countries; healthcare delivery and its challenges, international health agencies and research in medicine and public health.
For the Global Health Experience, first-year medical student, Nadine Saad, traveled to Tanzania to learn how medicine is practiced in a developing country.
The department also has an active research component, which focuses on problems of public health issues that are important to the State of Qatar. Dr. Mamtani and Dr. Albert Lowenfels of New York Medical College, recently completed a research study on motor vehicle injuries in the State of Qatar. They designed the study, analyzed and discussed the study data and its results. Dr. Mohammed Al-Thani, Director of Public Health Department, Supreme Council of Health, and Dr. Al-Anoud Al Thani, Director of Health Promotion and Non-communicable Diseases from the Department of Public Health also contributed to this research activity. Dean Javaid Sheikh, M.D., provided guidance and participated in the discussion of the research findings. The study has resulted in a research paper that has been accepted for publication in the British medical journal, *Injury Prevention*.

The study examined traffic injuries in Qatar between 2000 and 2010, a period of rapid population growth, focusing on the impact of speed control cameras installed in 2007 on overall injury rates and mortality. The study found that non-fatal severe injury rates declined but mild injury rates increased. Other areas of research undertaken by the department will include population surveys aimed at the demographics of the Qatari population, health and disease prevalence patterns and risk factors of commonly occurring chronic disease among Qataris.

Over the past year the Center for Cultural Competence (CCCHC) has continued its efforts to raise awareness, increase knowledge and enhance cultural competency skills of healthcare providers. The center conducted various sessions for medical students and staff of WCMC-Q as well as students and staff of WCMC-Q affiliates to educate them on issues relating to cultural competency. The center is also participating in a research grant titled: “Providing Culturally Appropriate Healthcare Services in Qatar: Development of a Multilingual Patient Cultural Assessment of Quality Instrument.”
Students continue to excel both inside and outside the classroom through academic achievement, sport and outreach programs.
WCMC-Q students continue to excel both inside the classroom and out. With a philanthropic focus on community affairs, students have been proactive in charitable events, outreach programs and supporting the community.

Marwa Saleh, class of 2013 and a Qatar Foundation High Achiever, set up the Global Health Club (GHC) with a remit to raise awareness among students of global health issues and to promote participation in healthcare programs aimed at delivering solutions.

The GHC was created with the support of Dr. Ravinder Mamtani, Associate Dean for Global and Public Health. As part of their activities the students organized meals for migrant workers, handed out food and clothes in impoverished areas and made visits to the children’s wards in various hospitals to hand out games and toys. They also worked with Think Pink Qatar’s annual Breast Cancer Awareness Campaign on a variety of fundraising events.

Another important aim of the GHC is to educate as many students as possible about critical global health issues. They, therefore, organized a series of lectures on subjects as diverse as medical conditions in Haiti, fistula repair in Ethiopia and the impact of the floods in Pakistan.

Students also got involved in an area of health that mostly affects poorer members of the population, TB. With the support of a Qatar National Research Fund’s Undergraduate Research Experience Program (UREP) grant and in conjunction with Hamad Medical Corporation (HMC) the students began a study to ascertain how long migrant workers with the disease go undetected and to document their experience of living with TB.

Other initiatives included working collaboratively with other healthcare providers to run health clinics for migrant workers and organizing fundraising events with Qatar Red Crescent for their emergency efforts worldwide. Students also participated in a fundraiser for Education City United for Pakistan Relief.
Make A Difference Day was held in February with eight WCMC-Q students and staff members participating in the activities. They visited Elderly House, Qatar Animal Welfare Shelter, Beach Cleanup in Al Khor and the Sri Lankan International School.

EXCELLENCE IN RESEARCH

WCMC-Q medical students won first place in an annual competition sponsored by the Qatar National Research Fund for the projects it funds through the UREP. Sanah Sadiq, Abdulhadi Al Saei and Arnab Chowdhure, won first prize for their research project, Down Syndrome in Qatar: A Survey of Public Perceptions and Educational Resources.

Their project, which was supervised by Dr. Pablo Rodriguez del Pozo, Associate Professor of Public Health, surveyed families and individuals in Qatar about the genetic disorder and people who live with it. The students also presented their research in September at the Fifth Summer Course on Bioethics Teaching and Research Methods at the University of Zaragoza in Spain.
STUDENT DEVELOPMENT

Over the summer students participated in various research programs. Eight first-year medical students were funded by the Research Department to travel to New York City to participate in the Student Summer Research Program. For eight weeks they worked with various faculty at Weill Cornell Medical College. An additional four first-year medical students were funded to work with research mentors in Doha. Furthermore, eight pre-medical students were funded by the Research Department to travel to Ithaca to participate in a ten week Student Summer Research Program and an additional four pre-medical students were funded to work with research mentors in Doha.

IMPROVING WRITING AND COMMUNICATION SKILLS

Also over the summer months six pre-medical students traveled to Cornell University in Ithaca to take courses for their continued academic and personal development. Students who completed the Foundation program traveled to Ithaca to participate in the Summer College program. This program allows students to take college courses before officially starting the pre-medical program. They were in Ithaca for courses in Philosophy and a First-Year Writing Seminar.

In September 2010 the Education City Leader Workshop was held to assist students in enhancing their professional and leadership qualities. Seventeen students attended various workshops on event planning; group dynamics and communication; skills for the workplace; service learning and sustainability.
In April the second volume of a collection of essays by WCMC-Q students entitled, Qira’at: Readings from the Students of Weill Cornell Medical College in Qatar, 2001-2011, was released. The publication offers students an opportunity to share their thoughts on literature, medicine, psychology and sociology.

It is also a testament to the investment WCMC-Q makes into well-rounded, successful physicians. Alan Weber, Assistant Professor of English and Qira’at’s managing editor noted that, ‘studies have shown that doctors who can effectively communicate with their patients have higher success rates in persuading patients to take their medicine, to return for follow-up care, and to establish longer health partnerships with their healthcare provider, all resulting in improved health outcomes’.

As with the first edition of Qira’at, students were invited to submit essays to the book as part of the college’s Best Essays Contest. Tasnim Khalife won for her essay, “A Scrutiny: The Role of the Face on Identity”. Other students gave a talk at the Middle East Writing Conference held in Sharjah, UAE. Abdelaziz Farhat, Navid Iqbal, Afaf Osman and Prashanth Venkatesh, all first-year medical students, gave a presentation entitled “Developing a Peer Tutoring Program Within a Medical School: The Tutor’s Perspective”. The students joined dozens of speakers and hundreds of attendees to explore the importance of and evaluate techniques related to peer-based writing programs.
In addition to giving their presentation, the students attended sessions, including the new Middle East North Africa Writing Center Tutors forum, which saw them building contacts and sharing information with tutors and consultants throughout the region.

Staying with the creative writing theme, the first edition of *Between Seminar Rooms* was launched in the summer of 2010. The creative writing and visual arts journal, created exclusively by medical, pre-med and foundation students at WCMC-Q, features poems, photos and short stories. Edited by Autumn Watts, English lecturer and Writing Center Coordinator, the volume gives students an opportunity to express their creativity and see their work in print.

Once again, WCMC-Q students were active throughout the year with the various sports teams including cricket, basketball, women’s basketball and soccer. In addition, this year the students created a mixed volleyball team. However, the Debate Club has been the most active student organization. The Debate Club hosted regular debates at the college on varying topics. In addition, members participated in the annual National Universities Debating Championship in Qatar, and the World Debating Competition in Botswana.

**Outstanding Student Achievements**

Fourth-year medical student Dhritiman Gurkha is as serious on the cricket pitch as he is in the classroom as he bowls away the competition.
Through WCMC-Q’s commitment to reaching out to the community, students visited hospital wards and Elderly House
In keeping with WCMC-Q’s commitment to excellence in training and development, a comprehensive program of lectures and research seminars have been extended to the community as part of its outreach program. The Medicine and U public lecture series is targeted at a general audience whereby medical and scientific issues are translated into easy to understand terms.

Organized by Dr. Basim Uthman, WCMC-Q’s Professor of Clinical Neurology with the assistance of other faculty members, the public lecture series is a means of raising awareness about illness in the community.

This year WCMC-Q advanced the program of hosting high school physics teachers for practical workshops by loaning them equipment for over 100 lab experiments. Previously workshops on how to teach practical and engaging lessons were held in the college but by making equipment and gadgets available to high school teachers they were able engage with their own students.

WCMC-Q lab assistants visited teachers who attended workshops to help set up experiments for their own students. The equipment relates to different topics such as Newton’s Third Law, that every action has an equal and opposite reaction. Some relate more directly to medicine such as ‘bicep muscle tension’ that demonstrates the physics of arm movement using a mechanical model constructed using wood, springs and masses. The new lending library of lab equipment will continue to grow as videos and other items are added on an on-going basis.
In March WCMC-Q opened its doors for the third annual recruitment fair, Medicine Unlimited that offers high school students and their families a glimpse of science and medicine and the possibility of a career in healthcare.

The interactive event introduced more than 320 students to WCMC-Q faculty, who shared simulations and demonstrations that reviewed the workings of genes, molecules and the human body. Staff members from the Office of Admissions and Student Affairs were also available to discuss the requirements for entrance to and success at WCMC-Q.

In May, around 30 students from six local high schools completed a three-weekend course at WCMC-Q designed to help them develop their interest and skills in science. The Adopt-a-School program comprised biology, physics and chemistry workshops as well as focused English writing modules. The participant schools were chosen based on the number of students they have sent to WCMC-Q in the past. Around half of them were Qatari, and of those all were top performers in the fields of math and science.

Also in May, WCMC-Q held its fourth annual Healing Hands Essay Contest to encourage Qatari high school students to think about the nation’s healthcare challenges and their role in meeting them. The topic this year was about how best to support the country in providing healthcare during the World Cup 2022. High school students from all across Qatar took part in the contest.
The two winning Qatari high school students, Faten Faisal Aqeel, an 11th grade student at Al Bayan Independent School, and Fahad Hamad Al Marri, a 12th grader from Al Shahanya Independent School, were each awarded the top prize, a Doctor of the Future Scholarship. This included a trip to Weill Cornell Medical College in New York City to spend two weeks in WCMC’s world-class research facilities and learn from their world-class physicians and researchers.

“This is a once-in-a-lifetime experience for these young students, where they get early exposure to the world of cutting-edge biomedical research. Our hope is that opportunities such as this will inspire more Qatari students to consider careers in the healthcare and research professions,” Dr. Javaid I. Sheikh, dean of WCMC-Q said.

Foundation Program students shared Fun Facts with high school students during the past year to pique their interest in science and medicine and a possible career in healthcare. Visitors from Amna Bint Wahab School in Doha learned tricks like the voice changing properties of helium gas balloons. The high school students appreciated hearing from the other students who were only a year or two ahead of them and took the opportunity to ask questions about chemistry, the Foundation Program curriculum and the average day of a WCMC-Q student.
During WCMC-Q’s annual recruitment fair, Medicine Unlimited, high school students and their families get a glimpse of science and medicine.
Students from all educational sectors in Qatar participated in a fun packed and inspiring program aimed at encouraging students to consider medicine and science as a career. Young students on the Q-SMARTS program, an acronym of Qatar Summer Math & Reading Talent Scholars, threw themselves into debating sessions where they learned important skills in communication, analyzing information and mutual respect. Those in the Qatar Future Doctors program got an opportunity to experience what it is like to practice medicine and were trained how to take vital signs, such as blood pressure and heart rate, as well as test automatic responses like reflexes. Students who aspire to a career in medicine get a head start with our Pre-College Enrichment Program that teaches prospective college students in grades 11 and 12 how to prepare for the SAT exam and admissions interviews, which are important aspects of getting through the college admission process.
Figures for faculty include all those on the WCMC-Q payroll considered active within the 2010-2011 academic year. Figures for staff are as of June 30, 2011, and include those residing in New York. Academic non-faculty includes postdoctoral positions in the research program.

Figures are as of September 21, and reflect any attrition from incoming classes in subsequent years.
PROFILE OF CLASSES ENTERING THE PRE-MEDICAL PROGRAM, 2002-2010

Total Enrollment and Applicants

Gender Profile
PROFILE OF ENTERING MEDICAL STUDENTS, SEPTEMBER 2010

Enrolled students .................................................................40
Male .......................................................................................23
Female .....................................................................................17
Previous education:  WCMC-Q ..................................................39
                       University of Michigan  .................................1
Average Science GPA ..........................................................3.6
Average age (Sept 1st, 2009) ...............................................20.4

CITIZENSHIP OF STUDENT BODY 2010

Qatar                      Germany                     Oman                      Syria
Algeria                    India                       Pakistan                   Tanzania
Australia                  Iraq                        Palestine                  Tunisia
Bahrain                    Jordan                      Philippines                UAE
Bangladesh                 Kenya                       Russia                     United Kingdom
Bosnia                     Kuwait                      Saudi Arabia                USA
Canada                     Lebanon                     South Korea                 Yemen
Egypt                      Mauritania                   Sri Lanka
France                     Nepal
<table>
<thead>
<tr>
<th>Title</th>
<th>Investigators</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Mechanism of Non-small Lung Cancer Development: The Role of Hematopoietic Stem Cells</td>
<td>Nasrin Meseali, PhD, WCMC-Q (LPI); Brendon Stiles, MD, WCMC-NY (Co-PI); Hamid Meseali, PhD, WCMC-Q (Co-PI)</td>
<td>1049324.4</td>
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<td>Brain Growth and Development Genes in Qatar</td>
<td>Margaret Ross, PhD, WCMC-NY (LPI); Alice Abd El Aleem, MD, WCMC-Q (Co-PI); Hussein Kamel, PhD, HMC (Co-PI); Khalid Ibrahim, MD, HMC (Co-PI); Mahmoud Elsaid, PhD, HMC (Co-PI); Tawfeg Ben-Omran, PhD, HMC (Co-PI)</td>
<td>1010344</td>
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<tr>
<td>Role of Axonal mRNAs in Regulating Axon Pathfinding and Circuit Formation in the Olfactory System</td>
<td>Samie Jaffrey, PhD, WCMC-NY (LPI); Benjamin Shykind, PhD, WCMC-Q (Co-PI)</td>
<td>1017566.4</td>
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<td>Quantitative Proteomics of the Differentiation of Human Embryonic Stem Cells</td>
<td>Johannes Graumann, PhD, WCMC-Q (LPI)</td>
<td>854852</td>
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<tr>
<td>Chaperone-Amyloid Interactions in Parkinson’s, Alzheimer’s and Diabetes</td>
<td>David Eliezer, PhD, WCMC-NY (LPI); Mohamed Ladjimi, DrPH, WCMC-Q (Co-PI)</td>
<td>1046091.85</td>
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<tr>
<td>Genetics and Epigenetics of Neutral Tube Defects in Qatar</td>
<td>Margaret Ross, PhD, WCMC-NY (LPI); Alice Abd El Aleem, MD, WCMC-Q (Co-PI); Haitham El Bashir, PhD, HMC (Co-PI); Hussein Kamel, PhD, HMC (Co-PI); Badredeen Ahmed, PhD, HMC (Co-PI)</td>
<td>1049976</td>
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<td>Metabolic Syndrome in Patients Receiving Antipsychotics in the Qatari and Kuwaiti Populations</td>
<td>Hassen Al Amin, PhD, WCMC-Q (LPI); Suhaila Ghuloum, PhD, HMC (PI); Abdel Moneim Abdel Hakam, PhD, HMC (Co-PI); Angela Godwin, MD, HMC (Co-PI); Mahmoud Zirie, MD, HMC (Co-PI); Mohamed Osman Abdel Rahman, MD, HMC (Co-PI); Mariam Abdulmalik, PhD, Primary Healthcare (Co-PI); AlHammadi AlHammadi, PhD, Psychological Medicine Hospital (Co-PI); Jude Ohaeri, PhD, Psychological Medicine Hospital (Co-PI); Ziyad Mahfoud, PhD, WCMC-Q (Co-PI)</td>
<td>948425</td>
</tr>
<tr>
<td>Validation of the Arabic Versions of the Psychiatric Scales Used in the Assessment and Treatment of Patients with Schizophrenia in the Gulf Population</td>
<td>Hassen Al Amin, PhD, WCMC-Q (LPI); Suhaila Ghuloum, PhD, HMC (PI); Abdel Moneim Abdel Hakam, PhD, HMC (Co-PI); Mark Olper, PhD, New York University (Co-PI); Mariam Abdulmalik, PhD, Primary Healthcare (Co-PI); AlHammadi AlHammadi, PhD, Psychological Medicine Hospital (Co-PI); Jude Ohaeri, PhD, Psychological Medicine Hospital (Co-PI); Ziyad Mahfoud, PhD, WCMC-Q (Co-PI)</td>
<td>519910</td>
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<tr>
<td>Obesity in the Qatari Population: Public Health and Genomic/Proteomic Perspectives</td>
<td>Lotfi Chouchane, PhD, WCMC-Q (LPI); Albert Lowenfels, MD, New York Medical College (Co-PI); Arthur Donny Strosberg, PhD, Scripps Florida (Co-PI); Al Anoud Al Thani, MD, Supreme Council of Health (Co-PI); Mohammed Al Thani, MD, Supreme Council of Health (Co-PI); Javaid Sheikh, MD, WCMC-Q (Co-PI); Mouaadh Abdelkarim, PhD, WCMC-Q (Co-PI); Ravinder Mamtani, MD, WCMC-Q (Co-PI); Karsten Suhre, PhD, WCMC-Q (Co-PI)</td>
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<tr>
<td>Genetic Studies of Rheumatoid Arthritis in Some Arab States</td>
<td>Thurraya Arayssi, MD, WCMC-Q (LPI); Humeira Badsha, MD, Al Biraah Arthritis and Bone Clinic (PI); Robert Plenge, PhD, Harvard Medical School (PI); Imad Uthman, MD, American University of Beirut (Co-PI); Mohammed Hamoudeh, MD, HMC (Co-PI); Samar Al Emadi, MD, HMC (Co-PI); Basel Masri, MD, Jordan Hospital (Co-PI); Hussein Halabi, MD, King Faisal Specialist Hospital Research Center (Co-PI)</td>
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<tr>
<td>Identification and Characterization of Genomic Alterations and Regulatory Mechanisms of Ovarian Carcinoma Progression</td>
<td>Arash Rafii Tabrizi, PhD, WCMC-Q (LPI); Jason Mezy, PhD, Cornell University (Co-PI)</td>
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<tr>
<td>Nanotechnologies and Treatment of Obesity: From Polymeric Nanoparticle-based Recruitment of Adipose Stem Cells toward Autologous Cell-based Therapy</td>
<td>Edith Mathiowitz, PhD, Brown University (LPI); Lotfi Chouchane, PhD, WCMC-Q (Co-PI); Sasha Bakhr, PhD, Brown University (Co-PI); Arthur Donny Strosberg, PhD, Scripps Florida (Co-PI); Hassaram Bakhr, PhD, The State University of New York (Co-PI); Robert Brainard, PhD, The State University of New York (Co-PI); Javaid Sheikh, MD, WCMC-Q (Co-PI); Mouaadh Abdelkarim, PhD, WCMC-Q (Co-PI); Ravinder Mamtani, MD, WCMC-Q (Co-PI)</td>
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<td>Toxin Production by Desert Cyanobacteria</td>
<td>Renee Richer, PhD, WCMC-Q (LPI); James Metcalf, PhD, Institute for Ethnomedicine (PI); Paul Cox, PhD, Institute for Ethnomedicine (Co-PI)</td>
<td>988886</td>
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<td>Diabetic Vascular Disease and the Contribution of Diabetes-Induced Changes in Vasomotion</td>
<td>Christopher Triggle, PhD, WCMC-Q (LPI); Kim Dora, PhD, University of Oxford (PI); Christopher Garland, PhD, University of Oxford (PI); Hong Ding, PhD, WCMC-Q (PI)</td>
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<td>Characterizing the HIV/AIDS epidemics in the Middle East and North Africa: Systematic Reviews and Quantitative Assessment</td>
<td>Laith Abu Raddad, PhD, WCMC-Q (LPI)</td>
<td>987386.91</td>
</tr>
</tbody>
</table>
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Al-Amin, Hassen A.

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Ameduri, Marco

Arredouani, Abdelilah


Büsselberg, Dietrich


Chouchane, Lotfi


Ding, Hong

Kronfol, Ziad

Machaca, Khaled
Mahfoud, Ziyad


Malek, Joel A.


Mamtani, Ravinder

Renzi, Daniel


Rodriguez del Pozo, Pablo


Scott, Stephen. M.


Suhre, Karsten

Triggle, Christopher R.


Verjee, Mohamud A.


Weber, Alan S.


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