

# PROF DR AMBREEN USMANI

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<b>Education</b>	<b>Ziauddin University</b>	
	<b>PhD- Anatomy</b>	<b>2017</b>
	<b>Centre of Bioethics and Culture, SIUT</b>	<b>2009</b>
	PGD-Biomedical Ethics	
	<b>College of Physicians and Surgeons Pakistan</b>	<b>2011</b>
	MCPS-HPE	
	<b>College of Physicians and Surgeons Pakistan</b>	<b>2007-2008</b>
	DCPS-HPE	
	<b>Ziauddin University Karachi (ZU)</b>	<b>2004- 2007</b>
	MPhil, Anatomy	
	<b>Baqai Medical College Karachi</b>	<b>1990 –1995</b>
	MBBS	
	<b>St. Joseph's College for Women Karachi</b>	<b>1987 –1989</b>
	Intermediate, FSc Pre-Medical	
	<b>St. Joseph's Convent School Karachi</b>	<b>1985-1987</b>
	Matric, Science	
	<b>St. Joseph's Convent School Malta</b>	<b>1979-1985</b>

## **Present appointments at Bahria University Medical and Dental College**

VICE PRINCIPAL	<b>October 2016-to date</b>
Senior Professor and HOD, Anatomy	<b>July 2015- to date</b>
Dep Director, Medical Education Department	<b>2008- to date</b>
Chairperson ERC	<b>2010- to date</b>

## **Present appointments at College of Physicians and Surgeons Pakistan**

Program Director (H)	<b>June 2014- to date</b>
Supervisor for MCPS-HPE	<b>2012- to date</b>
Visiting Faculty, CPSP	<b>2007- to date</b>

## **Appointments held**

HOD Examinations	<b>2015-2016</b>
HOD Harassment Cell	<b>2015-2016</b>
Associate Professor, Anatomy BUMDC	<b>2012-2015</b>
Assistant Professor, Anatomy BUMDC	<b>2008-2012</b>
Assistant Professor, Anatomy ZU	<b>2007-2008</b>

Coordinator PG Program, ZU	<b>2007-2008</b>
Coordinator lecture series, ZU	<b>2004-2008</b>
Organized lectures by individuals (both nationally and internationally) who were invited to deliver talks on various subjects in ZU	
Lecturer, ZU	<b>2004-2007</b>
Lecturer, Baqai University	<b>2003-2004</b>

## Projects Completed

**Established the Department of Medical Education at BUMDC in 2008**

**Established the mentoring program at BUMDC in 2008 which is running successfully till to date**

**Established an Ethical Review Committee at BUMDC as a part of my PGD-Bioethics project which is running to date**  
**2010- to date**

## Experience

### **Bahria University Medical & Dental College**

Associate Professor, Anatomy  
Assistant Professor, Anatomy

**2012- 2015**  
**Nov 2008-Jan 2012**

### **Ziauddin University, Karachi**

Assistant Professor of Anatomy

**Nov 2007-Nov 2008**

### **Ziauddin University, Karachi**

Instructor of Anatomy

**April 2004-Nov 2007**

### **Baqai Medical University Karachi**

Instructor of Anatomy

**July 2003-April 2004**

### **Naval Central Surgery**

Civilian Medical Officer

**September 2001-August 2002**

### **South City Hospital Karachi**

Medical Officer

Worked as a duty Medical Officer and dealt with all types of emergency cases

**March 1999-November 1999**

### **Maulvi Clinic, Karachi**

General Practitioner

Dealt with gynaecological and paediatrics cases. Average of about 50 cases per day at a charitable clinic in Karachi

**May 1997-September 1997**

### **Jinnah Post Graduate Medical Centre**

House Officer, General Surgery

Worked in Surgical OPD. Performed surgery on patients under local anaesthesia.

Worked in Surgical Ward 3. Performed surgery on patients under general anaesthesia by assisting senior doctors and also independently

**December 1995-June 1996**

House Officer, General Medicine

**June 1996-December 1996**

Worked in Medical OPD. Also, worked in Medical Ward 5, dealing with patients suffering from poison injuries and snake bites. Included a special assignment by the Head of Department to National Institute of Cardiovascular Diseases

**Facilitate sessions at College of Physicians and Surgeons for MCPS-HPE students  
2009- to date**

**Facilitate Workshops at College of Physicians and Surgeons for Supervisors and Postgraduate students**

Educational Planning and Evaluation

Assessment of Competence

**2009-to date**

Supervisory Skills

Communication Skills

TOACS workshop for Dental Faculty

**2012**

**Facilitate Workshops at Bahria University Medical and Dental College for faculty development on**

Communication skills

Planning and Evaluation

**Dec' 08-to date**

PBL procedure

PBL writing

Assessment

Curriculum Development

Mentoring

**PBL training for faculty**

**Feb'09-till to date**

**Facilitated Workshops at Ziauddin University for the faculty members on**

Planning and Evaluation

**May' 2008**

Conducting PBL

PBL writing

**Chief facilitator for the faculty development course at BUMDC June 2012-Aug 2012**

Conducted Certificate course of 3 months duration on Basic Education Skills for the faculty of BUMDC and PNS Shifa

**Accreditation** Pakistan Medical and Dental Council

**Workshops Attended**

Medical Education, Ziauddin University

**2005**

SPSS, Ziauddin University

**2006**

Education and Planning, CPSP

**2008**

Research Methodolgy, CPSP

**2008**

Communication Skills, CPSP

**2008**

Assessment of Competence, CPSP	<b>2008</b>
Communication Skills, BUMDC	<b>2009</b>
Endnote, AKU	<b>2011</b>
TURNITIN by HEC	<b>2012</b>
Techniques in Molecular Biology-ZU	<b>2014</b>
Tissue processing and microtomy	<b>2015</b>
MCQ Re-treat-CPSP	<b>2016</b>
PNEC NUST-Research writing	<b>11<sup>th</sup> August 2018</b>

<b>Courses</b>	Beginners computer training program	<b>2002</b>
	Medical Education, ZU	<b>2005</b>
	Tutoring skills, objective writing and problem based learning (PBL) 20 hours	
	Introductory course on Genetics	<b>2008</b>

### **Symposium/ Conference**

1. 45<sup>th</sup> Annual Medical Symposium  
Jinnah Postgraduate Medical Centre  
Theme: Health for the under-privileged  
**Read paper on “Comparison of Ovarian Reserve and BMI in Fertile and Subfertile Women as Determined by Ultrasonography: A Karachi Study” February 2008**
2. Authored paper at 6<sup>th</sup> APA-PHS Conference 2008, Kuala Lumpur, Malaysia  
“PBL: Challenges and Opportunities”. **Entitled “Analysis of PBL based teaching strategy in medical students in a comparative study”**  
**13<sup>th</sup>-16<sup>th</sup> October’ 2008**
3. 2<sup>nd</sup> international conference on Medical Education  
Fatima Jinnah Medical College, Lahore  
Theme: Time for a change  
**Read paper entitled “Comparison of Students and Facilitators Perception of Implementing Problem Based Learning”**  
**18<sup>th</sup>- 20<sup>th</sup> March 2010**
4. 1<sup>st</sup> Symposium  
Bahria University Medical and Dental College  
Theme: Health and Education: Need of the Nation.  
**Read paper entitled “Establishing an Ethical Review Committee at our Institute”**  
**4<sup>th</sup> –6<sup>th</sup> February 2011**
5. National Medical Education Conference  
College of Physician and Surgeons Pakistan  
Theme: Competency- Based Residency Education  
**Read paper entitled “Ethical Implications in mentoring medical students”**  
**26<sup>th</sup> – 27<sup>th</sup> February 2011**

6. Golden Jubilee Celebration Conference  
College of Physicians and Surgeons Pakistan  
Theme: Post graduate medical education-challenges and innovations  
**Read paper entitled “Impact of structured meeting on the learning of faculty members”**  
**9<sup>th</sup>-11<sup>th</sup> November 2012**
  
7. First International Conference of Anatomists  
CMH-Lahore  
Theme: Academic Challenges in Anatomy & Modern Educational Trends  
**Invited as a key Note speaker; spoke on “Latest strategies in teaching anatomy”**  
**21<sup>st</sup> – 22<sup>nd</sup> March 2014**
  
8. Charter Day  
College of Physicians and surgeons-Karachi  
Theme: Developing Human Resource for comprehensive health care  
**Invited as a moderator to moderate session on “strategies for effective teaching and learning”**  
**20<sup>th</sup> May 2014**
  
9. Pak-China Medcong  
Pakistan Medical Association  
Theme: An initiative for joint Pak-China Medical Corridor  
**Read paper on “mentoring medical students facing diverse hitches”**  
**8<sup>th</sup>-10<sup>th</sup> January 2016**
  
10. Joint 2<sup>nd</sup> annual conference of Ziauddin University Pakistan with European society of translational medicine  
Theme: International conference on translational medicine-from discovery to health care  
**Read paper on “Diagnostic, prognostic and predictive value of MicroRNA-21 in breast cancer patients, their daughters and healthy individuals.”**  
**1<sup>st</sup> - 3<sup>rd</sup> February 2016**
  
11. One day colloquium at University of Health Sciences  
Theme: To frame national health research agenda  
**Represented Bahria University Medical and Dental College**  
**23<sup>rd</sup> May 2017**
  
12. 2<sup>nd</sup> International Conference on Health Professions Education  
Theme: Emerging trends in HPE in 21<sup>st</sup> century  
**Read paper on “Replacement of concepts developed during health professions education”**  
**14<sup>th</sup> – 17<sup>th</sup> October 2018**

## Research papers and Publications

1. Shahida Zaidi, **Ambreen Usmani**, Ishrat S Shokh. Ovarian reserve in reproductive age. Pakistan Journal of Medical Sciences (PJMS) April- June **2007**; 23(3):449-453
2. **Ambreen Usmani**, Ishrat S Shokh. Ovarian reserve in fertile women as determined by ultrasonography. Journal of Dow University Health Sciences (JDUHS) July-December **2007**; 1(2):69-73.
3. Zaidi S, **Usmani A**, Shokh IS, Alam SE. A comparison of ovarian reserve and BMI between fertile and subfertile women: A Karachi Study. Journal of College of Physicians and Surgeons Pakistan (JCPS) **2009**; vol 19(1):21-24.
4. **Usmani A**, Sultan ST, Ali S, Fatima N, Babar S. Comparison of students and facilitators' perception of implementing PBL. Journal of Pakistan Medical Association (JPMA) **2011**; vol 61(4): 332-335.
5. **Usmani A**, Sultan ST, Omaer Q. Ethical implications of mentoring medical students. AHRC-ETC-019-2011 in Ethics in action Korea. [www.humanrights.asia](http://www.humanrights.asia). **2011**
6. **Usmani A**, Omaer Q, Sultan ST. Mentoring undergraduate medical students: Experience from Bahria University Karachi. Journal of Pakistan Medical Association (JPMA) **2011**; vol 61(8):790-794
7. **Usmani A**, Rehman R, Babar S. Impact of structured meetings on the learning of faculty members. J Postgrad Med Inst (JPMI) **2012**; 26(3):283-290
8. **Ambreen Usmani**, Rashid Anjum, Saeed Shafi. Ultrasonic measurement of female pelvic reproductive organs and comparison of BMI between fertile and infertile women. Journal of Rawalpindi Medical College (JPMC) **2012**; 16(2):159-161
9. **Ambreen Usmani**, Zia ul Islam, Zehra Akhtar. Comparison of female reproductive organs morphology between fertile and infertile women with polycystic ovaries. Journal of Postgraduate Medical Institute (JPMI) **2013**; 27(1):48-54
10. Rehana Rehman, Zil-e-Rubab, **Ambreen Usmani**. Problem based learning development program at Bahria University Medical and Dental College. Pakistan Journal of Medicine and Dentistry (PJMD) **2013**;2(2):21-26
11. **Usmani A**, Qamar A, Sadiq S. Ageing ovaries and endometrium in PCOs. JBUMDC **2013**; 3(2):69-74
12. **Usmani A**, Muhammad Syed Shafi, Rehman R, Islam ZU. Association of Polycystic Ovaries in primary infertile women with ovarian and uterine morphology. Journal of Rawalpindi Medical College (JPMC). **2014**;18(1):122-125
13. **Usmani A**, Islam ZU, Sultan ST. Mandate of Establishing an Ethical Review Committee. JBUMDC. **2014**; 4(1):27-29

14. **Ambreen Usmani**, Rehana Rehman, Zehra Ahktar. Association of body mass index and dietary habits with ovarian and uterine morphology with sub fertile polycystic ovarian syndrome. *J Postgrad Med Inst.* **2014**; 28(2):133-138
15. Rehman R, Rubab EZ, **Usmani A**, Rehan R. Steps towards implementation of modular hybrid system at Bahria University Medical and Dental College. *J Postgrad Med Inst (JPMI)* **2014**; 28(1):98-102.
16. Rehana Rehman, **Ambreen Usmani**, Quratulain Omaeer, Hina Gul. “Mentorship” a stride towards maintenance of medical student’s well-being. *J Pak Med Assoc (JPMA)* 2014; 64(12):1352-1357
17. **Ambreen Usmani**, Rehana Rehman, Aisha Qamar. Effect of age on ovarian and uterine morphology in Polycystic Ovaries. *J Pak Med Assoc* **2014**;64(10):1119-1122
18. **Usmani A**, Rehan R, Wasim B. Effects of Polycystic Ovaries on the morphology of uterus and ovaries. *Pak J Med Dent* **2014**;3(2):7-12
19. Rehana Rehman, Rabiya Rehan, **Ambreen Usmani**. Journal Club presentation in research orientation at Bahria University Medical and Dental College. *Pak J Med Sci.* **2015**; 31(1):136-139. doi: <http://dx.doi.org/10.12669/pjms.311.6314>
20. Rehana Rehman, Sundus Tariq, **Ambreen Usmani**, Mukhtiar Baig. Interplay of leptin with obesity and polycystic ovarian syndrome. *Life Science Journal* **2015**;12(4):12(4):83-89 [IF: 0.165]
21. Khalil Ahmed, Iftikhar Athar Rasool, Naeem Haider, Habib Ullah, **Ambreen Usmani**. A rapidly developing cataract in idiopathic hypoparathyroidism: a case report. *J Post Med Inst* **2015**;29(1):52-54
22. **Ambreen Usmani**, Amir Ali Shoro, Zahida Memon, Mehvish Hussain, Rehana Rehman: Diagnostic, prognostic and predictive value of MicroRNA-21 in breast cancer patients, their daughters and healthy individuals. *Am J Cancer Res* **2015**;5 (8):2484-2490.
23. Ambreen Usmani, Amir Ali Shoro. MicroRNA in breast cancer. *MicroRNA in breast cancer. JBUMDC.* **2015**;5(2):51-55.
24. Aisha Qamar, **Ambreen Usmani**, Humera Waqar. Ameliorating effect of Allium Sativum on high diet induced fatty liver in albino rats. *Pak J Med Sci.* **2016**; 32(2): 403-407 doi: <http://dx.doi.org/10.12669/pjms.322.9025>
25. **Ambreen Usmani**, Amir Ali Shoro, Bushra Shirazi, Zahida Memon. Investigative and extrapolative role of microRNA’s genetic expression in breast carcinoma. *Pak J Med Sci.* **2016**; 32(3):766-772
26. **Ambreen Usmani**, Quratulain Omaeer. Students’ views of mentoring at Bahria University Medical College *Pak J Med Sciences.* **2016**; 32(6):1489-1493. doi:<http://doi.org/10.12669/pjms.326.10625>
27. **Usmani A**. Benefits of Mentoring: An Essential Program for all Educational Institutes. *Int Arch BioMed Clin Res.* **2016** Feb; 2(1):3-4
28. **Ambreen Usmani**. Importance of Electronic learning. *JBUMDC.* **2017**; 7(1):01-02

29. **Ambreen Usmani**, Amir Ali Shoro, Bushra Shirazi, Zahida Memon, Mehvish Hussain. microRNA-16: A novel hereditary marker in breast cancer and their offspring J Pak Med. **2017**; 67(3):446-450
30. Zia Ul Islam, **Ambreen Usmani**. Psychometric analysis of anatomy MCQs in modular examination. Pak J Med Sciences. **2017**; 33(5): 1138-1143 doi: <http://dx.doi.org/10.12669/pjms.335.12382>
31. Irfan Ali Mirza, **Ambreen Usmani**. Attribution to success and failure among medical students. Experience at BUMDC. Pak Armed Forces Med J. **2017**; 67 (6): 890-98
32. Tahir Ansari, **Ambreen Usmani**. Students perception towards feedback in clinical sciences in an out-come based integrated curriculum. Pak J Med Sci. **2018**;34 (3)702-709. Doi:<https://doi.org/10.12669/pjms.343.15021>
33. Azra Jamil, **Ambreen Usmani**. The differences in the perception and educational outcome of the students and the faculty practicing traditional and integrated curriculum. accepted **2018** JCPSP
34. Ambareen Khan, **Ambreen Usmani**, Waqar. WhatsApp an informal learning and communication tool: experience of Medical Officers in Secondary care facility. To be completed in 2019 JPMA
35. Qudratullah, **Ambreen Usmani**, Siraj Ul Haq. Undergraduate learning by WhatsApp. To be completed in 2019 PAFMJ
36. Mansoor Dilnawaz, **Ambreen Usmani**, Waqar. Audit. To be completed in 2019 PAFMJ
37. Quratulain Jawaid, **Ambreen Usmani**. Anthropological variation of frontal air sinus among different ethnicities living Karachi. To be completed in 2019 PLoS
38. Ambreen Surti, **Ambreen Usmani**. Fetal Anomalies detection on 4D Ultrasound. To be completed in 2019 PLoS
39. Danish, **Ambreen Usmani**. Bridging gaps in teaching and learning biochemistry. 2020
40. Hudaibia, **Ambreen Usmani**. Learning skills by dental students. 2020
41. **Ambreen Usmani**, Maroosha Imran. Replacement of conceptions developed during health professions education. JBUMDC. **2018**;8(3):177-183
42. **Ambreen Usmani**, Zahida Memon, Amir Ali Shoro, Maroosha Imran. microRNA Let 7b: A novel function in predicting breast cancer. JCPSP in process
43. Syed Muslim Abbas, **Ambreen Usmani**, Maroosha Imran. Innovative Curriculum for Evidence Based Practice for Nursing Professionals. JBUMDC. **2018**;8(3):176-182
44. **Ambreen Usmani**, Nasim Karim, Mehreen Latif, Wahab Kadri. Am J Cancer Res (in process) Metformin Intervention In Oral Submucous Fibrosis And Oral Squamous Cell Carcinoma Via Molecular And Spectral Biomarkers 2019 in process



45. **Ambreen Usmani**, Mehreen Latif, Maroosha Imran. Relation of CRP in stage III breast cancer in (JPMA in process)
46. Umar Talha, Tariq Mairaj, Muhammad Imran, **Ambreen Usmani**. An Efficient FBP based Sparse-View CT Reconstruction Scheme using Morphological Alternating Sequential Filtering and Normalized Re-Projections (in process)
47. Syed Muslim Abbas, **Ambreen Usmani**, Maroosha Imran. Willingness to Pay and its Role in Health Economics (JBUMDC-in process)
48. Hafeez ud din, **Ambreen Usmani**. Role of supervisors as mentor in the academic performance of post graduate doctors in a public-sector hospital of Karachi. In process 2019
49. Junaid, Ambreen Usmani, Maroosha Imran, Naveed Faraz. Impact of WhatsApp on general population. JBUMDC
50. Quratulain Jawaid, **Ambreen Usmani**. Review article on Anthropological variation of frontal air sinus among different ethnicities living Karachi. To be completed in 2019
51. Ambreen Surti, **Ambreen Usmani**. Review article on Fetal Anomalies detection on 4D Ultrasound. To be completed in 2019

## FUNDING & AWARDS:

1. **GRANT: Primary Investigator: 2007**  
**“Ovarian reserve in subfertile women”**  
Ultrasound Clinic, P.E.C.H.S- Funded the MPhil research project **Rs100,000**
2. Primary Investigator: **2012**  
**“Association of ovarian and uterine morphology in fertile and subfertile women”**  
Bahria University Medical and Dental College **Awarded Rs10,000**
3. Primary Investigator: **2013**  
**“Polycystic ovaries”**  
Bahria University Medical and Dental College **Awarded Rs10,000**
4. Primary Investigator: **2014**  
**Published in an impact factor journal**  
**“Effect of age on ovarian and uterine morphology in Polycystic Ovaries”**  
Bahria University Medical and Dental College **Awarded Rs50,000**
5. Primary Investigator: **2014**  
**Published in an impact factor journal**  
**“Mentorship: a stride towards maintenance of medical student’s well-being”**  
Bahria University Medical and Dental College **Awarded Rs50,000(distributed)**
6. Primary Investigator: **2014**  
**Published in an impact factor journal**  
Journal Club presentation in research orientation at Bahria University Medical and Dental College  
**Awarded Rs50,000(distributed)**
7. Primary investigator: **2015**  
**Published in an impact factor journal**  
Diagnostic, prognostic and predictive value of MicroRNA-21 in breast cancer patients, their daughters and healthy individuals  
Bahria University Medical and Dental College **Awarded Rs50,000**
8. Primary investigator: **2016**  
**Published in an impact factor journal**  
Students’ views of mentoring at Bahria University Medical College. **Awarded Rs50,000 (distributed)**
9. Primary investigator: **2017**  
**Published in an impact factor journal**  
microRNA-16: A novel hereditary marker in breast cancer and their offspring  
Bahria University Medical and Dental College **Awarded Rs50,000**
10. Co-investigator: **2017**  
**Published in an impact factor journal**  
Psychometric analysis of anatomy MCQs in modular examination  
Bahria University Medical and Dental College **Awarded Rs50,000**

**11. GRANT: Primary Investigator and Team Leader in Collaborative research with Altinbas University-Turkey on “Oral Cancer” – TUBITAK-PSF funding in process Rs6,000,000**

**12. GRANT: Member in Collaborative research with UT-TECH on “Innovative changes in angulation of Magnetic Resonance Imaging to save power energy” This will become patent in the entire team’s name Rs15,000,000**

**POSTGRADUATE STUDENTS UNDER MY SUPERVISION:**

- 1 **MPhil in Anatomy** “Fetal Anomalies detection on 4D Ultrasound”
- 2 **MPhil in Anatomy** “Determination of variation in bony skeleton of hand in different ethnic groups”
- 3 **MCPS-HPE** “Attribution to success and failure among medical students. Experience at BUMDC
- 4 **MCPS-HPE** “Psychometric analysis of anatomy MCQs in modular examination”
- 5 **MCPS-HPE** “Effective feedback in clinical sciences in an out-come based integrated curriculum”
- 6 **MCPS-HPE** “The differences in the perception and educational outcome of the students and the faculty practicing traditional and integrated curriculum”
- 7 **MCPS-HPE-** Bridging gaps in teaching and learning biochemistry **in process**
- 8 **MCPS-HPE-** Learning skills by dental students **in process**
- 9 **MCPS-HPE-** WhatsApp an informal learning and communication tool: experience of Medical Officers in Secondary care facility
- 10 **MCPS-HPE-** Importance of audit in a medical college
- 11 **MCPS-HPE-** Undergraduate learning by WhatsApp
- 12 **MCPS-HPE-** Role of supervisors as mentor in the academic performance of post graduate doctors in a public-sector hospital of Karachi

**POSTGRADUATE EXAMINER OF: FOUR (04) MPhil candidates in Ziauddin University, > Hundred 100 MCPS-HPE CADIDATES CPSP**

**BOOK PUBLISHED:**

**Ambreen Usmani. “Ovarian reserve in fertile and sub fertile women” Lambert Publishers, Germany 2012. Review available on [www.amazon.com](http://www.amazon.com)**

**CHAPTER WRITTEN FOR BOOK:**

**Health for elderly-** CHS Textbook published by Paramount publisher (in process)

**BOOK UNDER PROCESS:**

**Case Based Clinical Embryology-** Paramount Publisher (in process)

**OTHERS:**

- **External Evaluator for “Evaluation of Self-Assessment Report of MBBS program of Ziauddin Medical College”**  
**19<sup>th</sup> July 2013**
- **Member of Editorial Board of Pakistan Journal of Medical Sciences (Impact factor Journal)**
- **Reviewer of**
  - ✓ Pakistan Journal of Medical Sciences (impact factor)
  - ✓ Journal of Pakistan Medical Association (impact factor)
  - ✓ Journal of Bahria University Medical and Dental College
  - ✓ Journal of Medicine and Medical Sciences
  - ✓ Herald Journal of Medicine and Medical Sciences
  - ✓ Anatomy and Physiology Journal (impact factor in process)
  - ✓ Journal of Fatima Medical University

**PRESENT RESEARCH PROJECTS UNDER PROGRESS:**

- 1. microRNA in breast cancer patients and their daughters**
- 2. Genetic biomarker MIR – 122 for diagnosing hepatitis B and Hepatitis C virus in jaundiced patients**
- 3. Metformin Intervention In Oral Submucous Fibrosis And Oral Squamous Cell Carcinoma Via Molecular And Spectral Biomarkers**
- 4. Relation of CRP in stage III breast cancer**
- 5. microRNA Let 7b: A noval function in predicting breast cancer**