

In the Name of Allah the Most Gracious the Most Merciful
Curriculum Vita

Name: Ihsan Fathallah Rostum Mohammed

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Qualification: Bachelor, M.Sc.& Ph.D. "University of Baghdad". American Board of Laser in General and Cosmetic Surgery "ABLCGS".

Scientific Degrees: Demonstrator, Senior lecturer, Lecturer , Assist. Prof., Professor; 2005 "University of Baghdad" and the Prime University Professor for 2010 " Al-Muthanna University"

Specialty Surgical Anatomy.

Subspecialty: Surgical Applications of Laser.

Fields of interest: Surgical Anatomy, Laser Surgery

World Scientific Societies:

- European Medical Laser Association (EMLA).
- North America Association of Laser Therapy (NAALT).
- American Society of Laser in Medicine and Surgery (ASLMS).
- World Association of Laser Therapy (WALT).
- Arab Physics Society (APS)
- Hold Term of Medical Scientist from the Australian Institute of Medical Scientists.

Positions:

- Head – Deputy / Dept. of Anatomy - Al-Kindi College of Medicine - University of Baghdad.
- Head of the Dept. of Anatomy - Al-Kindi College of Medicine - University of Baghdad.
- Member of Al-Muthanna University Council.
- Head of the Dept. of Anatomy - College of Medicine - Al-Muthanna university.
- Dean Assistant for Administrative Affairs - College of Medicine - Al-Muthanna University.
- Dean Assistant for Scientific Affairs / College of Medicine.
- Director of the Department of Quality Assurance and University Performance - Al-Muthanna University.
- Coordinator of the College of Nursing - Al-Muthanna University.
- Dean of College of Nursing - Al-Muthanna University.
- Chairman of the Central Scientific Promotions and Central Consolidation Committee - Al-Muthanna University.
- Prime - Professor at the Al-Muthanna University in 2010, and the candidate of the Ministry of Higher Education and Scientific Research as one of the

Distinguished Scientists serving the Scientific Movement in Iraq to meet the Prime Minister of Iraq in 2016.

- Dean of College of Dentistry- Cordoba Private University – Al- Najaf Al- Ashraf

Scientific Organizations and Civil Societies

- Iraqi laser Society/ Head- Deputy
- Iraqi Inventors and Innovators Society/ Member
- Iraqi Laser Scientists Society/ President
- Editor – in – Chief / Iraqi Laser Scientists Journal.
- Member of the Central Committee of the Iraqi Scientists

Scientific Research

Published; 24 articles, 10 of them in american and international journals;

- Effect of L.L.L.T. on healing of fractures. Nabeeh, M.A., Jewad, H.T. & Ihsan, F.R.Mohammed. Pan. Arab J. Orth.Trauma: Vol (5), No. (1) / January 2001.
- Histological study of osseo - integration around titanium implants post L.L.L.T. Ihsan, F.R.Mohammed, Nada, A.Y. & Nazar, G., Iraqi J. of Oral & Dent. Sci.: Vol (2), No. (1) / 2003.
- Using of He- Ne laser irradiation for enhancing cartilage auto - grafts; Ihsan, F.R.Mohammed, Nuha, Al- Mustawfi & Ibtisam, K.A.Ali, j. of Um- Salama for Science , Vo. 1 (2) 2014,
- L.L.L.T. accelerates collateral circulation & enhances microcirculation. Ihsan, F.R.Mohammed. Photomedicine and Laser Surgery: Vol. (23), Issue (3) / June 14 2005.
- Laser acupuncture for Iraqi patients. Ihsan, F.R.Mohammed. Int.J.Sci. Res.: Vol (16) / 2006.
- Effect of L.L. L.T. on nerve regeneration post trauma. Ihsan, F.R.Mohammed, Nuha, Al- Mustawfi & Laith, N.K. Photomedicine and Laser Surgery: Vol. (25), Issue (2) / June 14 2007.
- Experimental Liver Transplantation. Maki H. Fayath, Samea Safar, Isam Abood, Ihsan, F.R.Mohammed & S. Ibraheim. Bas. Sur. J. vol;6, No.1, 2000.
- Physiological effects of laser therapy on normal and hyperthyroid female rabbits Ihsan, F.R.Mohammed, Nuha, Al- Mustawfi & T.Salman. EMLA Laser Health Journal (published by the European Medical Laser Association - EMLA). ISSN 1796-8631.
- Isolation and irradiation of diabetic foot pathogenic bacteria using low level laser. Zeinab, A. Radhi & Ihsan, F.R. Mohammed. AL – Kindy College Medical Journal , Vol. 9, Issue :2 ,Dec. 2013 , ISSN; 1810 – 9543.
- Preparation of Abortion Pathogenic bacterial Vaccine using laser irradiation. Heda`a M. Nahaab & Ihsan, F. Rostum Mohammed. Uruk , Vol, 1, No.2 , 2013 , ISSN;2126 – 3284.
- Quantitative measurement of the radioactivity from the truffles growing naturally in Samawa desert – Iraq ; Assist. Prof. Dr. Abdulameer, K. Farhood1, Prof. Dr. Ihsan, F. Rostum , Laith, M. Rasheed . International Journal of Advanced Research (2014), Volume 2, Issue 10, 638-646 , ISSN 2320-5407.

- The effect of water content on damage depth in tissues subjected to Co₂ Laser, an experimental and theoretical study. Prof. Khalid S. Shibib¹, Prof. Dr. Ihsan F. Rostum, Prof. Dr. Mohammed A. Munshid¹ and Zainab, A. Muosa¹. 1. Department of Laser & Optoelectronic Eng., University of Technology, Baghdad, Iraq. 2. College of Dentistry, Al-Muthanna University. Int. J. Adv. Res. 4(10), 860-869.
- Experimental estimation of thermal damage in tissues subjected to continuous wave Co₂ laser. Prof. Khalid Salem Shibib*, Prof. Dr. Ihsan F. Rostum, Prof. Dr. Mohammed A. Munshid, Zainab Ayad Muosa; Department of Laser & Optoelectronic Eng., University of Technology, Baghdad, Iraq, College of Dentistry, Al-Muthanna University. International Journal of Scientific and Research Publications, Volume 6, Issue 11, November 2016 94 ISSN 2250-3153.
- Laser diode enhances autologous cartilage graft's expansibility , Ihsan, F.R. Mohammed , Noha, S. Al- Mustawfi & Mohammed, S. AL - Iedani , Al – Kindy Col. Med. J. 2016 ., Vol. 12, No. 12 .
- Accelerating wound healing and skin loss sealing using low level laser therapy, Dunnia, A. Barakat, Ihsan, F.R. Mohammed & Sattar, H. Ali. Iraqi Laser Scientists Journal. Issue 1; (1): 1-10, 2017.
- Role of low energy laser irradiation of the blood on the absorption of the antibiotics, Rami Ali , Mohammed S. Mehdi & Ihsan, F. Rostum ; Iraqi Laser Scientists Journal. Issue 1; (1): 11-16, 2017.
- Enhancing reparative processes of cartilage defects using He-Ne laser irradiation , Ihsan, F. Rostum , Fadhil , A. Hamed & Nuha, S. ; Iraqi Laser Scientists Journal. Issue 1; (1): 17- 24, 2017.
- Effect of 915nm diode laser on some hormones & minerals concerning with fracture healing, Wafa'a , A. Naji & Ihsan, F. Rostum ; Iraqi Laser Scientists Journal. Issue 1; (1): 25- 35, 2017.
- Impact of laser irradiation on regenerative processes of full thickness skin, Ihsan. F. Rostum & Nuha, S.; Iraqi Laser Scientists Journal , Issue 1 (1) : 36 – 41, 2017.
- Assessment of the laser's efficacy in the treatment of impaired healing wounds, Ihsan, F. Rostum. Iraqi Laser Scientists Journal. Issue 2; (1):1-5, 2018.
- Reparative processes of periosteal cells irradiated with diode lasers , Ihsan, F. Rostum , Sadiq , A. Al- Mukhtar & Majid Kamel Hadi. Iraqi Laser Scientists Journal. Issue 2; (1): 6 - 11, 2018.
- Effect of low level laser on the bacterial isolations from the bile; Nabeel Khudhair Hassoon & Ihsan, F.R. Mohammed, Photomedicine and Laser Surgery.
- Motivational efficacy of lasers on marrow haemopoietic cells; Kasim O. H. Ali , Ihsan, F. Rostum & Mohammed, S. Al – Idani, college of medicine - Al-Muthanna University , college of Dentistry – Al- Muthanna University , Al- Kindy College of Medicine – Baghdad University. First International Scientific Conference Al-Ayen University, IOP Conf. Series: Journal of Physics: Conf. Series 1279 (2019) 012075.
- Preparing a vaccine against the causative microorganisms of meningitis in children using a low-energy laser irradiation.
- Isolation of *Streptococcus pneumoniae* from hospitalized patients and feasibility study of vaccine production using low-level Laser irradiation

- **Shadows of Monotheism on Development of Basic Sciences; Laser as a Model, Prof. Dr. Ihsan Fathallah Rostum, Iraqi Laser Scientists Society/ President, (In stage of pressing)**

Currently Working:

- Isolation and irradiation of Echinococcus Granulosus larvae with low laser to prepare a specified vaccine.
- Impact of radiation with low level lasers on the components and the physical properties of the blood.
- Improving immune response of intravascular laser irradiated blood....

Planned: 11

- Isolation and irradiation of Lishemania infective stage " promastigote" with low laser to prepare a specified vaccine.
- Using of ((630nm)) laser for detection and destruction of cancers.
- Enhancing embryo developing by L.L.L.T.
- Corneal scanning using laser techniques for criminological purposes.
- Comparative study for different therapeutic methods for treatment of wounds.
- Inducing regenerative processes in the articulator surfaces by L.L.L.T.
- Management of pyelonidal Sinuses using L.L.L.T.
- L.L.L.T. in treatment of plantar fascists.
- L.L.L. in treatment of post stiffness of elbow.
- L.L.L.T. in treatment of osteoarthritis of knee "grad 1".
- L.L.L.T. in treatment of posttraumatic stiffness.

Books:

- ✓ Specialized Center for Scientific Research and Treatment with Laser ,Ihsan, F.R. Mohammed. S& T Diplomacy and Sustainable Development in the Developing Countries, edited by; Tahereh Miremadi , Abdul Haseeb Arabazai& Sadhana Relia. Centre for Science and Technology of the Non- Aligned and other Developing Countries (NAM S&T Centre). Section III , International Organizations and Networkings , Chapter 12 , Pages; 145 – 158. 2017, Daya Publishing house.
- ✓ Role of state institutions and civil society organizations in the scientific development of the talent and innovation in young people in Iraq , Triza, J. Ridha & Prof. Dr. Ihsan, F. Rostum , The Science Technology and Innovation Policy Making, It's trends and Objectives in developing countries. edited by; Budzanani Tacheba, Maryam Shaeri & Adnan Jawdat Judeh Yousif, Centre for Science and Technology of the Non- Aligned and other Developing Countries (NAM S&T Centre). Section IV , Capacitating STI , Chapter 21 , Pages 271 – 283.
- ✓ Application of Science, Technology and Innovation for Sustainable Development in Iraq: Role of Iraq Laser Scientists Society. Ihsan Fathallah Rostum Mohammed- Iraqi Laser Scientists Society – President, Fatin Shirzad Mohammed – General State of Nutritional Products – Al - Mamoon Factory- Manager, Dr. Zahraa Ismael Waheed - Dentists - Thi - Qar – Iraq.(In stage of pressing).

Patents: 14 of them licensed, and 3 in progress, God`s Willing

- Preparation of vaccine against Diabetic Foot pathogenic bacteria using low level diode laser.
- Preparation of Abortion Pathogenic bacterial Tri Vaccine using Laser Irradiation.
- Preparation of Vaccine against Cholecystitis Pathogenic Bacteria using Low Level Diode Laser.
- Physiological effects of laser therapy on normal and hyperthyroid female rabbits.
- Impact of laser radiation on flap tissues.
- Evaluation of a new method to study the Laser thermal damage of tissues.
- Ear tinnitus laser system.
- Intravenous blood laser irradiation.
- Laser acupuncture system.
- Leishmanial treating system.
- Magnetic – infra - red and laser therapeutic system.
- Blood laser irradiation increases the rate of absorption and metabolism of the antibiotics and support the humoral immunity minerals.
- Remote control of water tanks cooling device.
- Preparing Toothpaste Using Herbal Plants Components
- Preparing a vaccine against the causative microorganisms of meningitis in children using low-energy laser irradiation " *In assessment*"
- Isolating and irradiating germs causing secondary infections after exposure to the Covid-19 virus using a low-energy laser " *In assessment*"
- Drone mounted fire extinguishing system " *In progress*"

Educational Articles: 25 educational articles published in the newspaper and journal of the university concerning the applications of Laser in surgery and medicine and some other subjects.

- * Holy Oura`n talked about laser.
- * Trans-Myocardial Laser Revascularization (TMR).
- * Laser and Criminology.
- * Engaging laser in treating Breast Cancers.
- * Modification of optical laser defects (LASIK).
- * Treatment of Prostate defects with laser.
- * Treatment of Vitiligo using laser radiation.
- * Snoring and laser.
- * Treatment of (spider veins) with laser.
- * Leg Varicose Vein treated by laser.
- * Laser Liposuction, a non surgical treatment of fatness.
- * Laser in Plastic Surgery
- * Treatment of Sinusitis with laser
- * Nanotechnology applications in Medicine, shall we feel new live.
- * Cleft palate, how can be treated.
- * In memory of the martyrdom of Imam Musa Al-Kadhim^{PBUH}.
- * College of Medicine carried out it`s second on- line examination.
- * Iraq's creative march.
- * To his excellency the honorable Minister of Industry and Minerals

- * Has the mobile an impact on the brain?
- * The march of nursing career through our history deserves respect.
- * Treatment of Hemorrhoids with laser
- * Laser treatment for Gastric Ulcers.
- * Renal lithotripsy using laser radiation

Scientific Conferences:

Abroad: 11

- The first arab conference on Laser Applications in Medicine - Tripoli - Libya 14-16 October 2001, (author).
- The international conference of the Egyptian Society of Surgeons - Alexandria - Egypt 12-14 September 2001,(author).
- The first international conference on Physics Applications in Medicine and Biology, Dubai - United Arab Emirates, March 27-30, 2005, (author)
- The twelfth international conference on Medical Laser - European Society of Medical Laser, Prague - Eljek, September 20-22, 2007,(author).
- The fifteenth international conference on Medical Laser - European Society of Medical Laser, Helsinki - Finland, August 20-23, 2010,(author).
- The first international conference on Nursing and Women for Health and Care, Isfahan Medical University, May 6-9, 2014, (author).
- The First International Conference on Radioactive Materials. Institute of Nuclear Studies - Ankara University, Ankara - Türkiye, 27 - 29 August 2014,(author).
- International Congress on Natural Medicinal Products - Isfahan, May 10 - 11, 2023
- The International Conference on Laser Physics, Photonics & Applications, October 9-12 2023 Hawaii Paradise Resort, Hurgada, Egypt,(author).
- International Congress of the Transformation of Basic Sciences Based on Monotheistic Worldview- Shahid University -Tehran 26th. February 2025.(Author)
- The Second International Conference “Mauritania Toward the Top” in conjugation with the First International Fair of the Iraqi Inventors and Innovators Society 12 – 13 July 2025. Attending with two Inventions.

Inside the Country; 26

- The fourth scientific conference of the Yarmouk hospital , January 18-19, 1998 , (author).
- The first national conference on laser applications in medicine; 2-3 May 2001. Al-Kindi college of medicine - University of Baghdad. (chairman of the preparatory committee and author).
- The annual scientific conference of the Teachers Syndicate on the Dialogue of Civilizations, November 26, 2001 , (author).
- The annual scientific conference of the Teachers Syndicate on globalization, May 16, 2002, (author).
- The tenth scientific conference of the Iraqi Dental Syndicate, April 11, 2002,(author).
- The ninth scientific conference of the college of nursing - University of Baghdad, September 7-8, 2002, (author).
- The eighth technological conference for laser and electro-optics - University of Technology, September 15, 2002. (author).

- The annual scientific conference of the Teachers Syndicate on the impact of international sanctions on Iraqi children, February 16, 2003, (author).
- Ibn Al-Haytham Hospital Conference on the Uses of Laser in Ophthalmology June 9, 2005, (participant).
- The first symposium of the Iraqi Laser Society (Laser applications in medicine June 22, 2005,(Chairman of the Preparatory Committee).
- The second symposium of the Iraqi Laser Society (Laser applications in medicine and engineering) May 20, 2007, (Chairman of the Scientific Committee).
- Third symposium of the Iraqi Laser Society (Laser Applications in Medicine) August 11, 2008, ,(Chairman of the Preparatory Committee).
- The first regional conference for engineering sciences - College of Engineering - Al-Nahrain University 5- 6 November 2008 , (Chairman of the Scientific Session).
- The second scientific conference of the Dental Association - Muthanna Branch, May 17, 2009,(participant).
- The second scientific conference of the College of Science - Al-Muthanna University on the environment 27-28 April 2010. (Member of the Scientific Committee).
- The Second Regional Conference of College of Engineering – Al- Nahrain University , 1- 2 December 2010. “Scientific Assessment”.
- Kufa University Conference regarding Quality Assurance, 26 January 2010” Attendar”.
- The Third International Conference between the Hawza and the Universities , 20 February 2010 , Author.
- The third national scientific conference for Nursing Faculties in Iraq, Faculty of Nursing - University of Kufa for the period from 20-21 November 2012, (member of the preparatory committee).
- The international conference for the development of higher education in Iraq for the period from 27-29 ; Nov. 2012 – Baghdad.
- the 1st. international conference on laser applications and advanced materials ICLAAM , 16-18 Dec, 2014, (author of 8 articles in addition to the membership of the preparatory and scientific committees).
- The first scientific conference of Al Ain University for the period from 30 to 31 March 2019,(Attender).
- The first international conference on advanced technologies in cancer detection and treatment - University of Kufa - College of Medicine / 6-7 April 2020,(Attender).
- The virtual international conference of the center for biotechnology - Al-Nahrain University 25-26 August 2020,(Attender).
- Al Noor international conference on science and technology August, 28-29, 2020 , Baku – Azerbaijan,(Attender).
- Global and local research techniques in light of the Corona pandemic 2020 AD – / 15-161 September 2020, Al- Risekh soociety and Al- Maaref university college, (Attender).

Workshops, Symposiums & Scientific Courses 15

-Twelfth workshop on developments in medical education, Al-Kindi Faculty of Medicine in collaboration with the Health Prevention Department – Ministry of Health, 24–26 April 2002.

- Supervision and teaching within a training course for students of the Laser Engineering Department – Technological University at Al-Kindi College of Medicine, 20 June – 25 July 2004.
- Introductory course on Applications of Laser in medicine for doctors and engineers affiliated with the Ministry of Health, 26–30 June 2005 (lecturer).
- Introductory course on laser science applications, Scientific Care Department – Ministry of Youth and Sports, 16–22 April 2008 (lecturer).
- Workshop on reliability and quality in medical education, Ministry of Higher Education in collaboration with the World Health Organisation, WHO 12-13 July 2009.
- Introductory workshop on autism, Faculty of Medicine – Muthanna University in collaboration with the Specialised Centre for Autism Care in Iraq, 23 July 2009. (Head of the Preparatory Committee).
- Workshop on swine flu, Faculty of Science – Muthanna University, 19 October 2009.
- Discussion seminar on research missions for postgraduate students, Research and Development Directorate – Muthanna University, 23 November 2009.
- Workshop on filling out performance evaluation forms at the Ministry's office, 27–28 January 2010.
- Specialized workshop on virtual technical medicine VSI Holo Medicine for Iraqi Universities, 19 June 2023.
- Specialized virtual workshop on the use of medicinal herbs in cosmetics, anesthesia, dentistry and other uses, 19 July 2023.
- Workshop entitled: Drug abuse and addiction: the deadly damage to the human body, 10 August 2023.
- Laser applications in urological surgery, 11/9/2024 AD, presenter and lecturer.
- The dangers of hemorrhagic fever, how to deal with it and prevent it, on 11/5/2025 AD, presenter and lecturer.
- Scientific Course about the Military Applications of Laser , in cooperation with the State Company for Military Industries for the period : 8 – 26 / 9 2024: Organizer and Lecturer.

Keep Pace with Development & Self-Learning

During the summer vacation two courses attended:

- On- line Course of Artificial Intelligence AI for two months "July and August –2025" at the International Wisdom Secrets Academy – Cairo – Egypt.
- – Cairo – Egypt.
- Course of Cybersecurity for the period from "25 – 27 July 2025" at the International Thinkers Center for Scientific Research and Studies, – Cairo – Egypt.

Acknowledgments: 46

Committees: 60

Subjects taught:

- Anatomy; Theory and Practical for students of the first and second stages of Colleges of Medicine , Dentistry & Nursing .
- Medical and Surgical Laser for postgraduate students.

Supervision:

M.Sc. Students: 7

Ph. D.: 2