

AMINUDIN BIN CHE AHMAD



- KULLIYAH OF MEDICINE
- IIUM Kuantan Campus
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ACADEMIC QUALIFICATION

- Master of Surgery in Orthopaedics
- Doctor of Medicine

TEACHING RESPONSIBILITIES

ADVANCE TRAUMA	2014/2015 2017/2018
APPLIED PHYSIOLOGY	2014/2015 2015/2016 2017/2018 2019/2020
CLINICAL ANATOMY	2014/2015 2015/2016 2017/2018 2019/2020
CREATIVITY AND INNOVATION	2018/2019
ELECTIVE	2014/2015
FOOT AND ANKLE SURGERY	2014/2015 2015/2016 2017/2018 2019/2020
GENERAL ORTHOPAEDIC AND TRAUMATOLOGY I	2015/2016 2017/2018
GENERAL ORTHOPAEDIC AND TRAUMATOLOGY II	2015/2016
GENERAL PATHOLOGY	2014/2015 2017/2018 2019/2020
INTENSIVE CARE & GENERAL SURGERY	2014/2015 2015/2016 2017/2018
INTENSIVE CARE AND GENERAL SURGERY	2019/2020
ISLAMIC INPUT IN ORTHOPAEDIC	2015/2016 2017/2018 2019/2020
ISLAMIC INPUT IN ORTHOPAEDIC SURGERY	2014/2015
KNOWLEDGE AND SCIENCE IN ISLAM	2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
OPERATIVE ORTHOPAEDIC SURGERY AND IMPLANTS	2014/2015 2015/2016 2017/2018 2019/2020
ORTHOPAEDIC & TRAUMATOLOGY	2013/2014 2014/2015 2015/2016 2016/2017
ORTHOPAEDIC IMAGING	2014/2015 2015/2016 2017/2018 2019/2020
ORTHOPAEDICS AND TRAUMATOLOGY I	2014/2015 2019/2020

ORTHOPAEDICS AND TRAUMATOLOGY II	2014/2015
ORTHOPAEDICS, TRAUMATOLOGY & REHABILITATION	2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
PRINCIPLE OF SURGERY & BASIC ORTHOPAEDIC SURGERY	2014/2015 2015/2016 2017/2018
PRINCIPLE ORTHOPAEDIC SURGERY	2014/2015 2015/2016 2017/2018 2019/2020
PRINCIPLES OF SURGERY AND BASIC ORTHOPAEDIC SURGERY	2019/2020
REHABILITATION AND BIOMECHANICS	2014/2015 2015/2016 2017/2018 2019/2020
RESEARCH METHODOLOGY	2014/2015 2017/2018 2019/2020
SPORTS MEDICINE AND ARTHROSCOPY	2014/2015 2015/2016 2019/2020

RESEARCH PROJECTS

In Progress

- 2017 - Present** A comparison of clinical outcomes in mini-open and arthroscopic subacromial decompression in Shoulder Impingement Syndrome
- 2017 - Present** A STUDY ON DIABETIC FOOT AT RISK AND ITS ASSOCIATED FACTORS AMONG TYPE 2 DIABETES MELLITUS PATIENTS ATTENDING PRIMARY HEALTH CLINICS IN KUANTAN.
- 2017 - Present** Pedobarography: a pilot study among Malaysian population in district of Kuantan, Pahang

Completed

- 2017 - 2019** Pedobarography: a pilot study among Malaysian population in district of Kuantan, Pahang
- 2013 - 2016** IIUM Ibadah Disability Score (IIDS): A Systematic Scoring for the Evaluation of Muslim Trauma Patients' Ability to Perform Religious Physical Cleansing and Prayer
- 2012 - 2016** Pre-Clinical Evaluations of Malaysian-Made "Osteopaste" an Injectable Self-Hardened Synthetic Bone Cement
- 2011 - 2015** Questionnaire in Awareness, Knowledge and Practicality of Solat among the inward patients
- 2011 - 2014** The Functional outcome and Quality of Life After Open Tibial Diaphyseal Fracture Treated in Hospital Tengku Ampuab Afzan, Kuantan in the Year 2009
- 2011 - 2013** Maggot Debridement therapy with *Lucilia cuprina*: a comparison with conventional therapy in diabetic foot ulcers

- 2011 - 2015** Exploring the Potential of Biosynthetic Cartilage Composite Utilizing Poly (Lactic-Co-Glycolic Acid) and Fibrin Glue as Cells Carrier for Joint Resurfacing
- 2011 - -1** Maggot Debridement therapy with *Lucilia cuprina*: a comparison with conventional therapy in diabetic foot ulcers
- 2011 - 2013** RU 2011- Functional Outcome of Anterior Cruciate Ligament Reconstruction: Comparison of Bone-Patella Tendon-Bone Versus Hamstring Graft: A Cross Sectional Study
- 2011 - 2018** A Study of Clavicle Fracture In Newborn Babies
- 2009 - 2011** A Prospective Study of Paediatric Fractures Requiring Inpatient Management to Hospital Tengku Ampuan Afzan, Kuantan
- 2008 - 2011** A prospective study of Open Fracture Treated in Hospital Tengku Ampuan Afzan Kuantan. A Pilot Study for Open Fracture Registry

PUBLICATIONS

Article

- 2020** [Diabetic foot care practice and its associated factors among type 2 diabetes mellitus patients attending primary health clinics in Kuantan, Malaysia: a cross sectional study.](#) International Medical Journal Malaysia , 19 (2) pp.13-19
- 2020** [Prevalence and associated factors of diabetic foot at risk among type 2 diabetes mellitus patients attending primary health clinics in Kuantan.](#) IIUM Medical Journal Malaysia , 19 (3) pp.11-19
- 2019** [Quality of life of diabetes amputees following major and minor lower limb amputations.](#) The Medical Journal of Malaysia , 74 (1) pp.25-29
- 2019** [A review of the diabetic foot in Malaysian perspective.](#) World Journal of Pharmaceutical and Medical Research , 5 (9) pp.40-43
- 2019** [Prevalence and associated factors of diabetic foot at risk among type 2 diabetes mellitus patients attending primary health clinics in Kuantan.](#) Malaysian Family Physician , 14 (Supplement 2) pp.16-16
- 2018** [Development and validation of a new multidimensional questionnaire called Muslim Medical Student Questionnaire \(MMSQ\) among Malaysian undergraduates.](#) International Medical Journal Malaysia , 17 (Special issue 2) pp.97-106
- 2018** [Model of critical size defect in the New Zealand White rabbit's tibia.](#) The International Medical Journal Malaysia , 17 (1) pp.13-18
- 2017** [Neonatal clavicle fracture: A review of fourteen cases in East Coast Peninsular Malaysia.](#) International Journal Medical Malaysia , 16 (2) pp.79-83
- 2017** [The diabetic ankle fracture, should we treat them differently?.](#) Malaysian Orthopaedic Journal , 11 (2) pp.SF03

- 2017** [Tibial pilon fracture in a skeletally immature patient: mini open with intrafocal pinning and reduction technique; a case report.](#) Malaysian Orthopaedic Journal , 11 (Supp. A) pp.PFO4D
- 2017** [Wrecked calcaneum: ORIF with primary subtalar fusion; a case report.](#) Malaysian Orthopaedic Journal , 11 (Supplement A)
- 2017** [Functional and clinical outcome of arthroscopic versus mini-open bankart repair in anterior shoulder instability.](#) Malaysian Orthopaedic Journal , 11 (Supplement A) pp.FX05
- 2016** [Preoperative acetate templating in primary total knee replacement: does it matter?.](#) The International Medical Journal Malaysia , 15 (Supplementary Issue) pp.78-78
- 2016** [Functional outcome of anterior cruciate ligament \(ACL\) reconstruction: comparison of bone-patella tendon-bone \(BPTB\) vs. Hamstring graft.](#) The International Medical Journal Malaysia , 15 (Supplement Issue) pp.19-19
- 2016** [Infected nonunion proximal humerus fracture: two-stage oncologic approach solution with reverse total shoulder reconstruction.](#) The International Medical Journal Malaysia , 15 (Supp. 1) pp.83
- 2016** [Reconstruction of coronoid process using autologous tricortical iliac bone graft after persistent traumatic elbow dislocation- case report.](#) International Medical Journal Malaysia , 15 (Supplement Issue) pp.73
- 2015** [Predictors of major lower limb amputation among type II diabetic patients admitted for diabetic foot problems.](#) Singapore Medical Journal , 56 (11) pp.626-631
- 2015** [Surgical reconstruction in chronic posterior cruciate ligament injuries of the knee.](#) International Medical Journal Malaysia , 14 (2) pp.29-33
- 2015** [Long-term effect on foot and ankle donor site following vascularized fibular graft resection in children.](#) Journal of Pediatric Orthopaedics B , 24 (5) pp.450-455
- 2015** [Evaluation of three dimensional construct engineered from poly\(Lactic-co-glycolic acid\)/fibrin hybrid scaffold using rabbit bone marrow mesenchymal stem cells for osteochondral defect repair.](#) Jurnal Teknologi , 77 (25) pp.77-82
- 2015** [The potential of 3-dimensional construct engineered from poly\(lactic-co-glycolic acid\)/fibrin hybrid scaffold seeded with bonemarrow mesenchymal stem cells for in vitro cartilage tissue engineering.](#) Tissue and Cell , 47 (4) pp.420-430
- 2015** [Radiographic evaluation of posttraumatic osteoarthritis of the ankle: the Kellgren-Lawrence scale is reliable and correlates with clinical symptoms.](#) Osteoarthritis and Cartilage , 23 (3) pp.363-369
- 2015** [The potential of 3-dimensional construct engineered from poly\(lactic-co-glycolic acid\)/fibrin hybrid scaffold seeded with bone marrow mesenchymal stem cells for in vitro cartilage tissue engineering.](#) Tissue and Cell , 47 (4) pp.420-430
- 2015** [Team approach in the management of diabetic foot: The way forward.](#) International Medical Journal Malaysia , 14 (2) pp.1-2
- 2014** [Evaluation of bone marrow mesenchymal stem cells growth in vitro for cartilage tissue engineering.](#) Regenerative Research , 3 (2) pp.118-119

- 2014** [Cell proliferation assay and sulphated glycosaminoglycan production in poly\(lactic-co-glycolic acid\)-based scaffolds seeded with bone marrow mesenchymal stem cells for cartilage tissue engineering.](#) Regenerative Research , 3 (2) pp.163-164
- 2013** [The effect of Qur'anic recitation on health: a brief review on previous clinical studies.](#) International Medical Journal Malaysia , 12 (2(Sup)) pp.3-3
- 2013** [Awareness, knowledge and practicality of solat among the in-ward patient: A preliminary study.](#) The International Medical Journal Malaysia , 12 (2) pp.8-8
- 2013** [Factors associated with the outcome of open tibial fractures.](#) Malaysian Journal of Medical Sciences , 20 (5) pp.47-53
- 2012** [How to assess ankle osteoarthritis: comparison of the Kellgren and Lawrence scale with functional outcome and digital image analysis.](#) The Bone & Joint Journal , 94-B (XXXVII) pp.64
- 2012** [Management of achilles tendon injury.](#) Malaysian Orthopaedic Journal , 6 (supp.A) pp.7
- 2011** [Step activity monitoring to assess ambulation before and after total ankle arthroplasty.](#) Foot and Ankle Surgery , 17 (3) pp.136-139
- 2009** [Using step activity monitoring to assess ambulatory activity before and after total ankle arthroplasty.](#) Swiss Medical Weekly: The European Journal of Medical Sciences , 139 (23-24) pp.265
- 2009** [Pahang melioidosis registry.](#) Medical Journal of Malaysia , 64 (1) pp.27-30
- 2008** [Melioidosis prostatic abscess: clinical presentation and imaging findings.](#) International Medical Journal Malaysia , 7 (1) pp.1-8
- 2008** [An in vivo implantation study in New Zealand white rabbits for granular hydroxyapatite.](#) European Cells and Materials , 16 (supp 2) pp.55
- 2008** [Granules hydroxyapatite application in fractures.](#) European Cells and Materials , 16 (supp 2) pp.56
- 2007** [Contralateral posterior interosseous flap used to cover large soft tissue defect in the fingers. A case report .](#) International Medical Journal Malaysia , 6 (1) pp.1-9
- 2006** [Transphyseal fracture-separation of the femoral capital epiphysis: a true SCFE of traumatic origin.](#) Medical Journal of Malaysia , 61 (supp.A) pp.94-96
- 2006** [Venous gas embolism following hydrogen peroxide irrigation during debridement of chronic osteomyelitis lesion.](#) Medical Journal of Malaysia , 61 (Supp A) pp.88-90
- 2006** [Infection Following Internal Fixation Of Closed Fractures.](#) International Medical Journal Malaysia , 5 (1) pp.1-8
- 2006** [Bilateral olecranon fracture in adult. A case report..](#) International Medical Journal Malaysia , 5 (1) pp.1-4
- 2005** [Cycle spokes and chain related injuries in children - emerging injuries in Malaysia.](#) The Medical journal of Malaysia , 60 (Supp C) pp.11-13

- 2004 [Tuberculous bursitis around the knee mimicking benign soft tissue tumor.](#) International Medical Journal Malaysia , 3 (1)
- 2004 [Symptomatic intra-articular ganglion cyst of the knee.](#) Medical Journal of Malaysia , 59 (Supp.F) pp.57-59
- 2004 [Ossifying fibromyxoid tumour in a child.](#) Medical Journal of Malaysia , 59 (Supp.F) pp.49-51
- 2004 [Practical Islamic input in Orthopaedics Undergraduate Medical Curricula.](#) International Medical Journal Malaysia , 3 (2) pp.E2
- 2003 [Palm-oil thorn induced granulomatous lesion with aseptic arthrititis.](#) International Medical Journal Malaysia , 2 (2) pp.1-5

Conference or Workshop Item

- 2019 [In vivo performance of injectable self-hardened synthetic bone cement \(osteopaste\) as a filler for bone defects.](#) In: **SIRIM Invention, Innovation & Technology Expo (SI2TE) 2019**
- 2019 [Bone-graft interface in New Zealand White rabbit's model: a novel Malaysian-made biomaterial, "osteopaste".](#) In: **28th Scientific Conference of Microscopy Society Malaysia**
- 2019 [Prevalance and associated factors of diabetic foot at risk among type 2 diabetes mellitus patients attending primary health clinics in Kuantan.](#) In: **7th Asia Pacific Primary Care Research Conference**
- 2018 [Injectable self-hardened synthetic bone cement \(osteopaste\) as a filler for bone defects: A histological result from experimental study in New Zealand White rabbit's tibia.](#) In: **48th Malaysian Orthopaedic Association Annual Scientific Meeting/Annual General Meeting 2018**
- 2018 [Injectable self-hardened synthethic bone cement \(Osteopaste\) as a filler for bone defects: A histological result from experimental study in New Zealand white rabbit's tibia.](#) In: **Malaysia Technology Expo 2018**
- 2016 [Articular cartilage tissue engineering using poly\(lactic-co-glycolic acid\) based scaffolds seeded with bone marrow mesenchymal stem cells: from in vitro to in vivo model.](#) In: **National Colloquium on Stem Cell Research 2016**
- 2016 [Bioartificial Articular Cartilage Substitute \(BACS\): today's innovation for active tomorrows.](#) In: **IRIIE 2016 Commercial Potential Award**
- 2015 [A short descriptive study on in-ward Muslim patients with diabetic foot disease practices in performing physical cleansing and prayer.](#) In: **International Conference on Islamic Medical Education (IC-ISME) 2015 in conjunction with International Multi-Conference on Education & Technology (IMCET) 2015**
- 2015 [Pre-clinical in vivo evaluation of Malaysian-made "osteopaste" - an injectable self-hardened synthetic bone cement in critical size bone defects.](#) In: **45th Malaysian Orthopaedic Association: Annual Scientific Meeting**
- 2015 [Implementation of the Islamic Input in Orthopaedics \(Triple IO\) undergraduate medical curricula & practice. IIUM's experience \(2002-2014\).](#) In: **2nd International Conference on the Qur'an and Sunnah (ICQS2)**

- 2015 [Bioartificial articular cartilage substitute: towards the development of functional tissue engineered medical product.](#) In: **The International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA 2015)**
- 2015 [Medical ethics in a multicultural country: differences in principles and practices among Muslims and Buddhists.](#) In: **2nd International Conference on the Qur'an and Sunnah (ICQS2)**
- 2015 [Pre-clinical in vivo evaluation of Malaysian-made östeopaste"- an injectable self-hardened synthetic bone cement in critical size bone defects.](#) In: **Malaysian Technology Expo (MTE 2015)**
- 2015 [Evaluation of three-dimensional construct engineered from poly\(lactic-co-glycolic acid\)/fibrin hybrid scaffold seeded with rabbit bone marrow Mesenchymal stem cells for osteochondral defect repair.](#) In: **International Conference on Advancement in Science and Technology (iCAST 2015) - 'Frontiers in Biotechnology'**
- 2015 [A study of clavicle fractures in newborn babies.](#) In: **Hong Kong 2015 - the Combined Congress of the 12th Hong Kong International Orthopaedic Forum (HKIOF) and the 10th Combined Congress of the Asia Pacific Spine Society (APSS) and the Asia Pacific Paediatric Orthopaedic Society (APPOS) 2015**
- 2014 [A rare presentation of an open traumatic scapulothoracic dissociation following conveyor machine hazard.](#) In: **44th Malaysian Orthopaedic Association (MOA) Annual General Meeting / Annual Scientific Meeting 2014 incorporating 11th CAOS Asia Meeting**
- 2014 [Model of a critical size defect in New Zealand white rabbits Tibia.](#) In: **International Research, Invention and Innovation Exhibition 2014 (IRIIE2014)**
- 2014 [The biomechanics of various fixations for syndesmotic joint diasthesis: a finite element study.](#) In: **International Federation of Foot & Ankle Societies (IFFAS) and American Orthopaedic Foot & Ankle Society (AOFAS) Meeting**
- 2014 [Inventing and validation of questionnaires Muslim doctor questionnaire \(MDQ\) & Muslim medical student questionnaire \(MMSQ\) .](#) In: **5th Exposition on Islamic Innovation 2014**
- 2014 [Psychological impacts among diabetic amputee patients in Tengku Ampuan Afzan Hospital, Kuantan.](#) In: **44th Malaysian Orthopaedic Association (MOA) Annual General Meeting / Annual Scientific Meeting 2014 incorporating 11th CAOS Asia Meeting**
- 2013 [Doctor-patient relationship in the light of the syari'ah: excerpts from the Fiqh Muamalat in Medicine Workshop 2013.](#) In: **Seminar on Islamization of Medical Curriculum and Practice**
- 2013 [Workshop in Fiqh Muamalat in Medicine 2013: venturing further collaboration between Kulliyahs of Medicine and Islamic Revealed Knowledge, IIUM..](#) In: **Seminar on Islamization of Medical Curriculum and Practice**
- 2013 [The effect of Qur'anic recitation on health: a brief review on previous clinical studies.](#) In: **Seminar on Islamization of Medical Curriculum and Practice**

- 2013 [How to perform religious duties in time of illness. A case study on a patient with head injury and upper limb trauma.](#) In: **Seminar on Islamization of Medical Curriculum and Practice**
- 2013 [Islamic view on reconstructive surgery: a child with polydactily as a case study.](#) In: **Seminar on Islamization of Medical Curriculum and Practice**
- 2013 [Inventing and validating questionnaires Muslim Doctor Questionnaire \(MDQ\) & Muslim Medical Student Questionnaire \(MMSQ\) among the population of muslim doctors and students in Malaysia.](#) In: **IUM Research, Innovation & Research Exhibition 2013**
- 2013 [Open reduction and screw fixation of triplane ankle injury using single posterolateral approach.](#) In: **9th APOA Paediatric Section Congress**
- 2011 [Thoracolumbar compression fracture: should we brace? .](#) In: **41st Malaysian Orthopaedic Association Annual General Meeting / Annual Scientific Meeting & 5th ASEAN Arthroplasty Association Meeting**
- 2011 [Bioethics in tissue engineering : an Islamic perspective.](#) In: **International Health Conference IUM 2011**
- 2011 [Gram negative infection following plating of Tibia resulted with exposed bone and implant.](#) In: **SICOT 2011 XXV Triennial World Congress**
- 2011 [A typical giant tophaceous gout of the foot treated with surgical excision: a case report.](#) In: **41st Malaysian Orthopaedics Association Scientific Meeting**
- 2011 [Neglected monteggia fracture in adult treated with open reduction and ulna lengthening using tricortical bone graft: a case report.](#) In: **41st Malaysian Orthopaedics Association Scientific Meeting**
- 2011 [Bioethics in tissue engineering: an Islamic perspective.](#) In: **International Conference of Allied Health Sciences 2011**
- 2011 [Modified anatomical reconstruction for symptomatic chronic acromioclavicular joint disruption: surgical technique and case reports.](#) In: **Malaysian Orthopaedic Association Annual General Meeting**
- 2010 [Diabetic foot presentation and surgical outcome at Hospital Raja Perempuan Zainab II, Kota Bharu, Kelantan: a prospective review.](#) In: **40th Malaysian Orthopaedic Association Annual General Meeting/ Annual Scientific Meeting**
- 2010 [Screw complication of ACL reconstruction: report of two cases.](#) In: **40th Malaysian Orthopaedic Association Annual General Meeting/ Annual Scientific Meeting**
- 2010 [Screw complication of ACL reconstruction: report of two cases.](#) In: **The 4th ConMed Linvatec Asia Arthroplasty Symposium 2010**
- 2008 [An In Vivo Implantation Study in New Zealand White Rabbits for Granular Hydroxyapatite.](#) In: **eCM IX MUSCULOSKELETAL TRAUMA: 50 YEARS OF AO RESEARCH**
- 2008 [Granules Hydroxyapatite Application In Fractures.](#) In: **eCM IX MUSCULOSKELETAL TRAUMA: 50 YEARS OF AO RESEARCH**

- 2007 [Pahang melioidosis registry](#) . In: **5th World Melioidosis Congress**
- 2007 [Pulmonary melioidosis: Clinical radiological correlation in Pahang, Malaysia](#). In: **5th World Melioidosis Congress**
- 2007 [Open achilles tendon rupture](#). In: **Fifth SICOT/SIROT Annual International Conference 2007**
- 2007 [Musculoskeletal melioidosis](#). In: **Fifth SICOT/SIROT Annual International Conference 2007**
- 2007 [The use of a made-in- Malaysia Hydroxyapatite \(HA\) granules \(GRANUMAS\): early clinical results a one year review](#). In: **Fifth SICOT/SIROT Annual International Conference 2007**
- 2007 [The use of gastrocnemius muscle flap in trauma](#). In: **Fifth SICOT/SIROT Annual Internatinal Conference**
- 2007 [Same, but is it similar? a case report](#). In: **Fifth SICOT.SIROT Annual International Conference**
- 2007 [Palm oil thorn induced tumour-like lesion: a review of 4 cases](#). In: **Fifth SICOT/SIROT Annual International Conference 2007**
- 2006 [Local flap for open fracture grade IIIB tibia](#). In: **36th Malaysian Orthopaedic Association Annual Scientific Meeting & 2nd Asia Pacific Orthopaedic Association Trauma Section Meeting**
- 2006 [Palm oil thorn induced tumour like lesion: a review of 3 cases](#). In: **36th Malaysian Orthopaedic Association Annual Scientific Meeting & 2nd Asia Pacific Orthopaedic Association Trauma Section Meeting**
- 2006 [Open achilles tendon rupture: a review of 33 cases](#). In: **36th Malaysian Orthopaedic Association Annual Garnd Meeting & 2nd Asia Pacific Orthopaedic Association Trauma Section Meeting**

Book

- 2018 [Trauma & resuscitation](#). Institut Terjemahan & Buku Malaysia Berhad dan Universiti Islam Antarabangsa Malaysia . ISBN 978-967-460-781-4
- 2018 [Ibadah untuk pesakit: panduan dan pedomam](#). Institut Terjemahan & Buku Malaysia & Universiti Islam Antarabangsa Malaysia . ISBN 978-967-4607-77-7

Book Section

- 2015 [Medical ethics in a multicultural country: differences in principles ad practices among Muslims and Buddhists](#). In: **Revelation & Science in the 21st Century** IIUM Press . ISBN 9789674183912 , pp.181-190
- 2015 [Implementation of the Islamic input in Orthopaedics \(IIIO\) undergraduate medical curricula and practice: IIUM's experience \(2002-2014\)](#). In: **Revelation & Science in the 21st Century** IIUM Press . ISBN 9789674183912 , pp.141-148