

# Systematic Reviews in Pharmacy

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**14**

## PUBLISHER

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## PUBLICATION TYPE

Journals

## ISSN

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2010-2020

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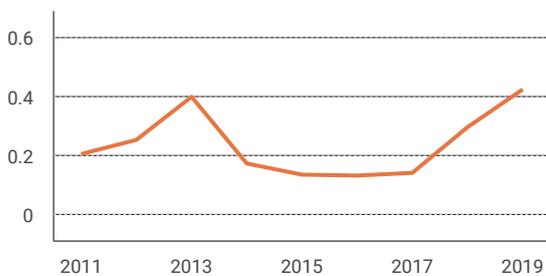
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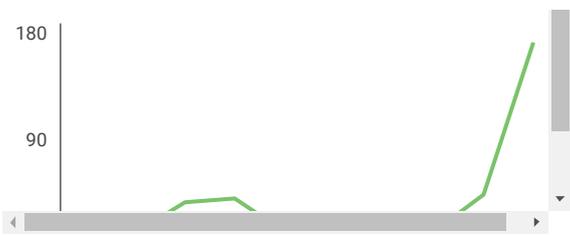
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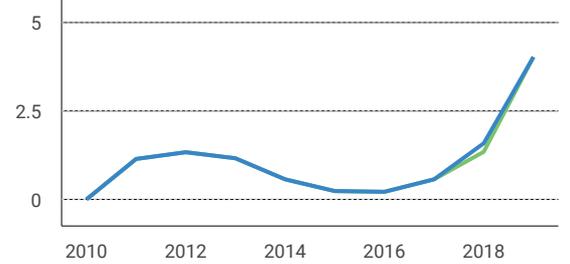


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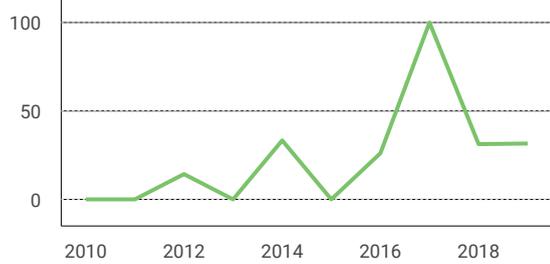


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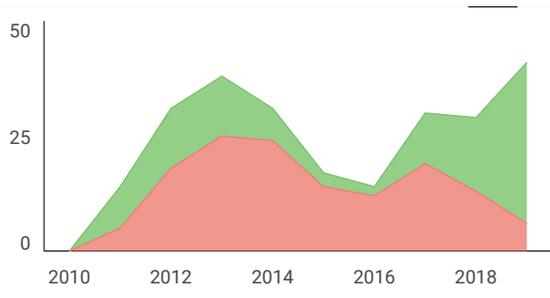
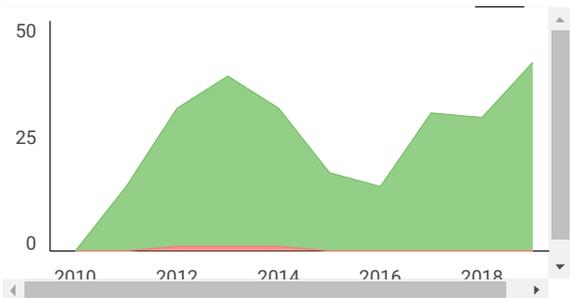
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**Dr. Huiliang ZHAO**

Ph.D.

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Email Id: hlzhao@gzmu.edu.cn

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yingwen0806@163.com

**Dr. Li Zihan**

Ph.D.

University of Glasgow, UK

Email Id: Lizihan1992@gmail.com

**Gabriela Cioca**

Pharmacology Department, Faculty of Medicine, Lucian Blaga University

of Sibiu, Lucian Blaga street, no 2A, Sibiu, Romania,

gabriela.cioca@ulbsibiu.ro

**Dariusz Nowak**

Municipal Hospital, Mickiewicza street no 12, 42-200 Czestochowa,

Poland

dariuszandrzejnowak@wp.pl

**Aleksandra Zyska**

Department of Physiology, Faculty of Medicine, University of Opole,

Oleska street no 48, 45-052 Opole, Poland

aleksandra.zyska@uni.opole.pl

**Katarzyna Sznajder**

Clinical Department of Diagnostic Imaging, Faculty of Medicine, University of Opole,  
Oleska street no 48,

45-052 Opole, Poland

katarzyna.sznajder@uni.opole.pl

**Jacek Jóźwiak**

Department of Family Medicine and Public Health, Faculty of Medicine, University of  
Opole,

Oleska street no 48, 45-052 Opole, Poland, jacek.jozwiak@uni.opole.pl

**Luciano Benedini**

Universidad Nacional del Sur, Bahía Blanca 8000,

Argentina

**Paula Messina**

Departamento de Biología, Bioquímica y Farmacia,

Universidad Nacional del Sur, Bahía Blanca 8000, Argentina.

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**Mohammed Nader Shalaby**

Associate Professor of Biological Sciences and Sports Health, Suez Canal University,  
Egypt

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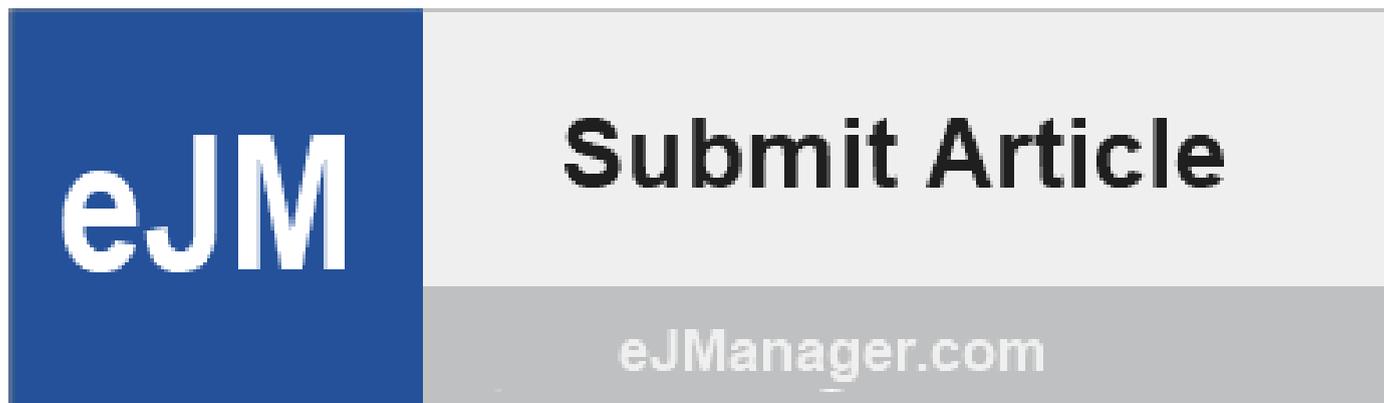
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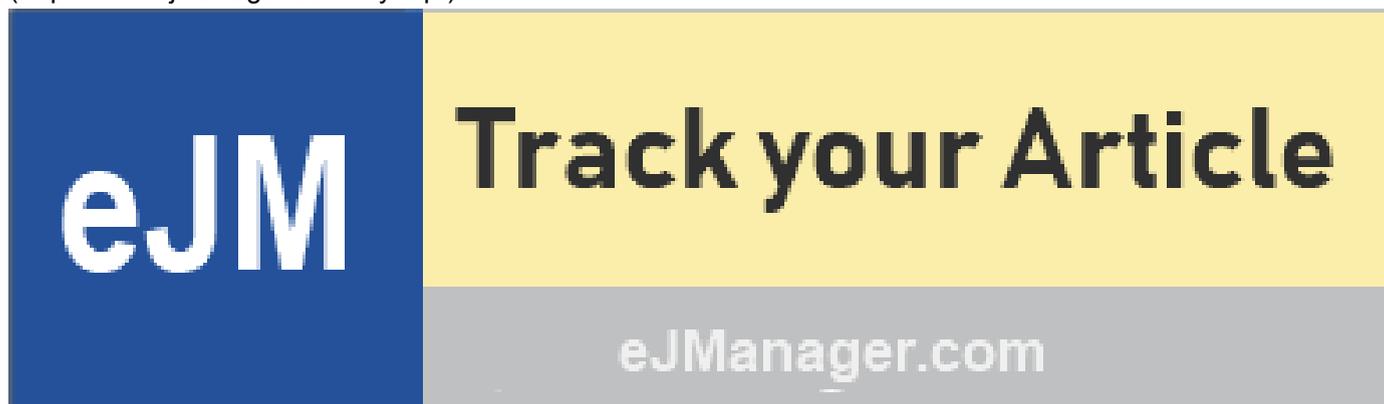
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Edy Machmud, Muhammad Ikbal, Irfan Dammar, Darmiaty

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Eri Hendra Jubhari, Irfan Dammar, Vinsensia Launardo, Yonatan Goan

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### **7. Role of Green Tea Catechins Toothpaste on Transforming Growth Factor- $\beta$ 1 (TGF- $\beta$ 1) and Bone Morphogenetic-2 (BMP-2) on Early Childhood Caries**

Fajriani<sup>1</sup>, Sartini, Sherly Horax, Adam Malik, Asmawati, Atika Balqis, Dwi Putri Wulansari

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Rasha Amer Noori Al-Tufaili

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**46. EFFECTS OF A LEADER PASSIONATE PERFORMANCE MODERATION ON THE PERFORMANCE OF FEMALE MARKETING EMPLOYEES IN STATE-OWNED COMMERCIAL BANKS IN MEDAN CITY — INDONESIA**

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**47. EFFECTS OF A LEADER PASSIONATE PERFORMANCE MODERATION ON THE PERFORMANCE OF FEMALE MARKETING EMPLOYEES IN STATE-OWNED COMMERCIAL BANKS IN MEDAN CITY — INDONESIA**

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**52. IMPACT OF CYBERBULLYING ON THE DEVELOPMENT OF STUDENT SOFT SKILLS IN ENGINEERING EDUCATION**

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**54. CHARACTER EDUCATION FOR EDUCATORS THROUGH SCHOOL BASED ON ENVIRONMENTAL CONSERVATION IN MALANG DISTRICT**

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**56. Fibroblast Viability Test Toward Red Dragon Fruit (*Hylocereus polyrhizus*) Peel Ethanolic Extract**

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**57. The Effectiveness Analysis Of Medical Care Management In The Regional Vascular Center For Patients Of Elderly And Senile Age With Acute Myocardial Infarction**

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**59. Morphological, Immunophysiological And Clinical Features Of Respiration And Blood Circulation Under The Influence Of Combined Stress In The Covid-19 Conditions**

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**60. Assessment Of Drug Nephrocisin's Hypoazotemic Efficiency At Various Stages Of Chronic Kidney Disease In Clinical Conditions**

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**63. The Role Of The Tutor And Students In The Process Of Problem-Based Learning (Pbl)**

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**64. Green Supply Chain, Green Communication and Firm Performance: Empirical Evidence from Thailand**

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**65. EFFECT OF GIVING ETHANOL JENGKOL SEEDS (Pithecellobium lobatum Benth.) ON THE IMPROVEMENT OF UREUM AND CREATININE LEVELS OF WHITE RAT**

Evi Kurniawaty, Frisca Febe Lumban Gaol, Intanri Kurniati, Silvia Andriani, Soraya Rahmanisa, Silvia Andriani

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66. **APOPTOSIS INDUCING POTENTIAL AND IMMUNOMODULATION OF COLOCASIA ESCULENTA AGAINST MYCOBACTERIAL SPECIES**  
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67. **Breast Fibroadenoma Features Assessment by Ultrasonography**  
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68. **DIFFERENCE BETWEEN EPITHELIAL AND COLLAGEN IN SECOND DEGREE BURNS BETWEEN HUMAN CORD MESENCHYMAL STEM CELL EXTRACT AND SILVER SULFADIAZINE IN THE MALE WHITE RAT (RATTUS NORVEGICUS)**  
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69. **The effectiveness analysis of medical care management in the Regional vascular center for patients of elderly and senile age with acute myocardial infarction**  
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70. **Features of the drug labeling system implementation in the Russian Federation: positive and negative experience FGAOU VO First MGMU them. THEM. Sechenova of the Ministry of Health of Russia (Sechenov University)**  
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71. **INFLUENCE OF AN EFFECTIVE CONTRACT ON THE QUALITY OF RENDERING MEDICAL SERVICES IN THE RUSSIAN FEDERATION**  
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72. **Educational Guidelines for Nurses' Competence Level Caring for Patients with Accidental Chest Trauma during Emergency Period**  
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**73. Role of Prostatic Artery Embolization in Management of Benign Prostatic Hyperplasia**

Islam M. Allam, Osama M. Hetta, Ahmed H. Soliman, and Ayman M. Ibrahim

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**74. Characteristics Growth and Adaptability of Dwarf-odot Elephantgrass (Pennisetum purpureum cv. Mott) Grown in Gorontalo at Established Year**

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**75. Comparative Study of Dexamethasone Versus Ondansetron as Adjuvants to the Intra-Peritoneal Irrigation of Bupivacaine for Reducing the Postoperative Pain in Patients Undergoing Elective Laparoscopic Cholecystectomy**

Basim Herez Ali, Ameer Zuhair Hameed, Raad Jasim Isa

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**76. Relationship of Cybersecurity and the National Security of the Country: Iraq Case Study**

Asmaa Khalid Jarjees Al-Tae, Hameeda Abdul-Hussain Al-Dhalimi, Adnan Kadhum Jabbar Al-Shaibani

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**77. The Formation of Homosexual Behavior in South Sulawesi Province (Study on Young Homosexual in Makassar City and Bulukumba District)**

Andi Asrina, Sukri Palutturi

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» Abstract (?mno=5567) » PDF ([index.php?fulltxt=5567&fulltxtj=196&fulltxtp=196-1605767680.pdf](http://dx.doi.org/10.31838/srp.2020.12.78)) » doi:  
10.31838/srp.2020.12.78 (<http://dx.doi.org/10.31838/srp.2020.12.78>)

**78. X-Ray Fluorescence (XRF) Analysis in Masonry Heritage Building Conservation in Malaysia**

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**79. Deploying Marketing Indicators to Ensure Greater SMEs International Performance in Mediating Role of Customer Satisfaction: A Glance of Indonesian Pharmacies**

Efed Darta, Henni Febriawati, Amrullah

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**80. Study of Land Quality and Land Characteristics that Determine the Productivity of Composite Maize Varieties in Gorontalo**

Nurdin, M. L. Rayes, Soemarno, Sudarto

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» Abstract (?mno=9465) » PDF (index.php?fulltxt=9465&fulltxtj=196&fulltxtp=196-1606135402.pdf) » doi:  
10.31838/srp.2020.12.81 (<http://dx.doi.org/10.31838/srp.2020.12.81>)

**81. Glycemic Control and Peripheral Nerve Function after Healed of Plantar Foot Diabetic Ulcer in Semarang, Indonesia**

Maria Suryani, Widiastuti Samekto, Heri-Nugroho

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» Abstract (?mno=8012) » PDF (index.php?fulltxt=8012&fulltxtj=196&fulltxtp=196-1605969722.pdf) » doi:  
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**82. A Proposed Training Program and Its Effect on Muscle Strength Responses and Some Physiological Variables for Volleyball Beginners**

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**83. The Use of Image Processing in the Evaluation of Diabetic Foot Ulcer Granulation after Treatment with Advanced-Platelet Rich Fibrin + Hyaluronic Acid**

Ronald W. Kartika, Idrus Alwi, Franciscus D. Suyatna, Em Yunir, Sarwono Waspadji, Suzzana Immanuel, Todung Silalahi, Saleha Sungkar, Jusuf Rachmat, Mirta Hedyati Reksodiputro, Saptawati Bardosono

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**84. Role Of Musculoskeletal Ultrasound In Assessment Of Extrusion Of The Medial Meniscus Of The Knee Joint Compared To MRI As A Reference Standard**

Gehad Mohamed Mahmoud Elkwesny, Khaled Ahmed Mohamed Ali, Hossam Moussa El Sayed Sakr, Mohsen Gomaa Hassan Ismael

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**85. Lamellar Bodies Count In Amniotic Fluid From Vaginal Pool as A Predictor For Fetal Lung Maturity In Preterm Premature Rupture of Membranes**

Yossef Abu Elwan Elsayed, Walid Abdallah Abd Elsalam, Mostafa Abdou Ahmed, Ahmed Mohamed Mahmoud El-Sayyad

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**86. Usefulness Of Diffusion Weighted Mr-Imaging And Apparent Diffusion Coefficient Values In Evaluation Of Neck Masses**

Samar M. Shehata, Asmaa A. Alshamy, Hanan A. Bahaaeldin

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**87. Novel detection of Helicobacter species in gastric problems in Equine in Egypt**

Dina A.E. AbuElghait, Kh. F. Mohamed, Eldessouky Sheta, Naglaa A. AbdElkader and Ahmed Samir

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**88. Prevalence, Risk Factors And Relationship Of Pruritus With Blood Lead Level In Chronic Kidney Disease On Maintenance Hemodialysis**

Nafesa Mohammed Kamal1, Essam Eldin Mahmoud Lotfy, Hatem Elmaghawry Mohammed Elshiekh, Lamiaa Abd Elwahab Mohammed and Ahmed Maher Elsayed

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**89. Challenges in treatment of Chronic HCV in HIV-HCV Co-Infected Egyptian Patients by direct acting antivirals (sofosbuvir and daclatasvir)**

Ihab Barsoum Fahim, Saeed Abd Elbaky Gad, Mahmoud Ezat Hegazy, Mahmoud Ahmed Sharafeddin

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**90. The Psychological Manifestations of Cultural Conflict among Adolescents: Evidence in Vietnam**

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**91. Democratization of Taxation in Indonesian Perspective: A Systematic Analysis**

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**92. Needs Analysis of Gasoline Engine Learning Based on Competency Problem Based Learning (CPBL)**

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**93. Comparative Study on Fractional Ablative Erbium: YAG Laser Versus Chemical Peeling in Treatment of Melasma**

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**94. The Potential Of Hospitality Tourism In Riau (Study of Sharia Perspective)**

Swardono Harjanto, Suyono Joko, Harsono Mugi, Riani Asri Laksmi, Suhardjanto Djoko

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**95. The importance of family and family values in the formation of a healthy lifestyle**

Dildora Ramanova, Ilmira Urazalieva, Shakhlo Ishmukhamedova, Bahodir Turayev, Hadichaxon Shoyusupova

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**96. The main factors of formation and physical culture in society**

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**97. COVID-19: EMPIRICAL STUDY OF FACTORS INFLUENCING THE USAGE AND ADOPTION OF SOCIAL MEDIA MARKETING IN UZBEKISTAN**

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**98. FORMATION OF A RISK-ORIENTED SYSTEM OF CONTINUOUS ACTIVITY MANAGEMENT**

Zemskov Vladimir Vasilievich, Chuvilkin Nikita Alexandrovich, Bezdenezhnykh V.M., Linok Larisa Vladimirovna, Emelianova Elena Pavlovna, Rudavin Denis Anatolevich, Kabanov Oleg Vladimirovich

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**99. In-vitro; ex-vivo assessment of anti-inflammatory Tapentadol loaded non-ionic surfactant vesicular systems for effective transdermal delivery**

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**100. Covid 19: Political Cooperation and Ritual Modification of Religious Worship Through Large-Scale Social Restrictions**

Imam Tobroni, Sofan Rizqi, Ramdan Pelana, Godlif Sianipar, Rahmat Lutfi Guefara, Irwan Fathurrochman

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**101. Avoiding medical visits even when needed during the COVID-19 pandemic: A cross-sectional survey from Saudi Arabia**

Bandar Alsaif, Fahad D. Algahtani, Sehar-un-Nisa Hassan and Rafat Zrieq

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102. **The influence of the mother's job on the psychological state of preschool children in Saudi Arabia**  
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103. **Public Perception of Access to Health Information During COVID-19 Pandemic in Saudi Arabia As A Predictor of Psychological Distress**  
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104. **Modern Geriatric Home Health Care Architecture**  
Eko Prasetyo Nugroho, Lukas, Maria Kartawidjaja  
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105. **In vivo antimicrobial activity of Matricaria chamomilla extract against Pathogenic Bacteria induced skin infections in Mice**  
Atheer A. Khashan, Mohammed A. Hamad, Mohammad S. Jadaan  
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106. **Gastro-Protective Effects of Epigallocatechin 3 –Gallate: Impact on Anti-oxidant, Anti-Inflammatory, and Anti-Apoptotic Actions, (Invivo and Invitro Study)**  
Ekram Nemr Abd Al Haleem, Gellan Alaa Mohamed, Azza Sayed Awad, Ragia Ali Taha  
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107. **Effects of Gabapentin Drug on Hematological Parameters and Histological Structures in Female Mice**  
Jinan Mohammad Al-Zahid, Intisar Razzaq Sharba, Jinan Mahdi Ghani, Methak Alshemkh  
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108. **Evaluation Some Antioxidants and Oxidative Stress index in Seropositive Toxoplasmosis in Pregnant Women in Ramadi city of Iraq**  
Mohammed A. Mohammed, Khalida I. Rajab, Khalid F. Al-Rawi, Mouhaned Y. Al-darwesh  
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109. **The effect of use of plant Glycyrrhiza glabra on productive performance and some Biochemical qualities of blood for the broiler chickens Ross308**  
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**110. THE EFFECT OF ROCKET FUEL ON THE MORPHOLOGICAL AND MORPHOMETRIC CHARACTERISTICS OF THE LUNGS OF RATS**

Abdullayeva B.A., Shalakhmetova T.M., Musanova G.A., Zharkova I.M., Askarbayeva K.A., ChUNETOVA Zh.Zh., Kozhabayeva E.

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**111. INFLUENCE OF METEOROLOGICAL CONDITIONS ON THE LEVEL OF POLLUTION OF THE AIRALE TERRITORIES**

Tussupbekova G.A., Rakhmetova A.M., Alshynbekova Gulnaziya, Mukhametzhanova Z.T, Mautenbaev A., Moldakaryzova A.Zh., Amreyeva K.E., Amanbai B., Yesselkhanova G.A, Kolpek Ainagul

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**147. Impact of Emotional Intelligence of Service Providers and Customers Satisfaction in Air Transport: Case Study of Pharmacists**

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**149. Synthesis, identification and study antibacterial activity of new 1,2,3-triazoles derived from resorcinol using click chemistry**

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**150. Neuro-Protective Impact of Rutin Against Methionine-Induced Hyperhomocysteinemia in Rat Model**

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**151. The role of vitamin-D supplementation in pain relief for adult patient with chronic pain**

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**152. Effects Of Deferasirox Therapy On High Sensitivity C-Reactive Protein and Oxidative Stress Markers In Iron Overloaded, Beta-Thalassemic Patients**

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**153. Early Warning Of Heart Disease And Knowledge Of ECG Cardiac Thrombosis In The Presence Of Risk Factors Surrounding The Patient**

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**154. Biological control on Tomato Mosaic Virus (ToMV) by using some plant extracts**

Rajaa Fadhil Hamdi, Zahraa Mohammed Owaid, Omer Ahmed Omer, Fadheelah Nafea Kafi, Hager Hussein Luhemus

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**155. Political Relations And Sufi In Development Political Communication (Case Study In Pelalawan, Indonesia)**

Suhayib, Johari, Wahidin, Syahpawi

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**156. Molecular identification and antimicrobial susceptibility of Staphylococcus aureus isolated from children with Nasolacrimal Duct Obstruction**

Zeina M. Alsabti, Samer N. Khalaf, Asra'a Adnan Abdul-Jalil, Thakir M. Mohsin

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**157. Updates in the Perioperative Anesthetic Management of Cardiomyopathy in Pregnant Patients**

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**158. Impact Of Covid-19 Pandemic On The Implementation Of Islamic Fiqh Al-Tasawabit And Al-Mutaghayyirat Approaches**

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**172. Evaluation the response to infliximab therapy in patients with ulcerative colitis and crohn's disease**

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**206. AUTO-AGGRESSIVE BEHAVIOR AS AN INDICATOR OF REDUCED HARDINESS**

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**207. PSYCHOLOGICAL SUPPORT FOR ADAPTATION OF INTERNATIONAL STUDENTS AS A FACTOR OF RAISING  
THEIR SOCIAL COMPETENCY**

Aleksandr V. Litvinov, Bogdan S. Vasyakin, Elena V. Shamalova, Marina V. Polevaya, Irina S. Zhuravkina

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» Abstract (?mno=15848) » PDF (index.php?fulltxt=15848&fulltxtj=196&fulltxtp=196-1603028255.pdf) »

**208. THE CRISIS OF EDUCATION IN CONDITIONS OF THE COVID-19 PANDEMIC: THE MODEL OF BLENDED LEARNING**

Valentina B. Salakhova, Yuliya V. Bazhdanova, Tuyana Ts. Dugarova, Natalia S. Morozova, Margarita M. Simonova  
**SRP. 2020; 11(12): 1411-1416**

» Abstract (?mno=15849) » PDF (<index.php?fulltxt=15849&fulltxtj=196&fulltxtp=196-1603028319.pdf>) »  
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**209. LANGUAGE REPRESENTATION OF YOUTH HEALTH CONCEPT IN INTERNATIONAL INSTITUTIONAL DISCOURSE**

Anastasia Atabekova

**SRP. 2020; 11(12): 1417-1427**

» Abstract (?mno=15850) » PDF (<index.php?fulltxt=15850&fulltxtj=196&fulltxtp=196-1603028465.pdf>) »  
doi: 10.31838/srp.2020.12.211 (<http://dx.doi.org/10.31838/srp.2020.12.211>)

**210. DIALECTIC TRANSFORMATION IN THE HUMOR OF CHILDREN**

Tatiana V. Artemyeva

**SRP. 2020; 11(12): 1428-1433**

» Abstract (?mno=15853) » PDF (<index.php?fulltxt=15853&fulltxtj=196&fulltxtp=196-1603028536.pdf>) »  
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**211. FORMATION OF TOLERANCE AMONG YOUNG PEOPLE THROUGH MULTICULTURAL EDUCATION AS A PREVENTIVE FACTOR OF COUNTERING EXTREMISM AND TERRORISM**

Stella G. Grigoryeva, Larisa G. Grigoryeva

**SRP. 2020; 11(12): 1434-1438**

» Abstract (?mno=15855) » PDF (<index.php?fulltxt=15855&fulltxtj=196&fulltxtp=196-1603028638.pdf>) »  
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**212. RUSSIAN ADOLESCENTS' READINESS FOR AGGRESSION AS A RESULT OF FAMILY UPBRINGING**

Natalya N. Kalatskaya, Roza A. Valeeva

**SRP. 2020; 11(12): 1439-1449**

» Abstract & References (?mno=15856) » PDF (<index.php?fulltxt=15856&fulltxtj=196&fulltxtp=196-1603028703.pdf>) » doi: 10.31838/srp.2020.12.214 (<http://dx.doi.org/10.31838/srp.2020.12.214>)

**213. Readiness for Professional and Pedagogical Self-Development: Results Dynamics Among Students of Master's Programs in Pedagogy**

Elena V. Asafova, Oksana V. Vashetina

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» Abstract (?mno=15864) » PDF (<index.php?fulltxt=15864&fulltxtj=196&fulltxtp=196-1603028770.pdf>) »  
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**214. The geometry and optical models of the erythrocyte**

K.A. Shapovalov

**SRP. 2020; 11(12): 1456-1463**

» Abstract (?mno=15865) » PDF (<index.php?fulltxt=15865&fulltxtj=196&fulltxtp=196-1603028851.pdf>) »  
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**215. Biodiversity of mycelial fungi in fresh water in the territory of the park "Mari Chodra" of the Russian Federation**

Ramziya M. Potekhina, Evgenya Yu. Tarasova, Svetlana A. Tanaseva, Venera I. Makaeva<sup>1</sup>, Iskander F. Vafin, Liliya I.

Almitova, Sergey Yu. Smolentsev, Alsu R. Makaeva, Rashid M. Aslanov, Valentina Yu. Titova, Rimma V. Nefedova and Julia V. Larina

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**216. The recent progress of sulfonamide in medicinal chemistry**

Khulood H. Oudah, Mazin A.A. Najm, Ali B. Roomi, Hussein A.Al-sa,idy and Fadi M. Awadallah

**SRP. 2020; 11(12): 1473-1477**

» Abstract (?mno=16575) » PDF (index.php?fulltxt=16575&fulltxtj=196&fulltxtp=196-1603117947.pdf) »  
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**217. Analytical determination for chlorprothixene.HCl drug in pure form and medicinal tablets by spectrophotometric derivatives**

Aayad Ammar Sayhood, Bayan Jabr Hussein, Mohanad Hazim Halboos

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**218. Detection of exoA, nan1 genes, the biofilm production with the effect of Oyster shell and two plant extracts on Pseudomonas aeruginosa isolated from burn' patient and their surrounding environment**

Raghad J. Mahdi Alhamdani and Yasin Y. Y. Al-Luaibi

**SRP. 2020; 11(12): 1483-1494**

» Abstract (?mno=16585) » PDF (index.php?fulltxt=16585&fulltxtj=196&fulltxtp=196-1603118224.pdf) »  
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**219. Covid-19 as a modern determinant of oil demand: pharmaceutical perspective**

Bondarenko Tatiana Grigorievna, Prodanova Natalia Alekseevna, Zhdanova Olga Aleksandrovna, Maksimova Tatiana Pavlovna

**SRP. 2020; 11(12): 1495-1506**

» Abstract (?mno=16586) » PDF (index.php?fulltxt=16586&fulltxtj=196&fulltxtp=196-1603118377.pdf) »  
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**220. THERMODYNAMIC ANALYSIS OF THE FORMATION OF CALCIUM BORATES IN THE CaCO<sub>3</sub> – m H<sub>3</sub>BO<sub>3</sub> SYSTEM**

Atyrkhanova K. K., Shevko V. M., Tleuov A. S., Tleuova S. T., Ashirbaev K. A., Sopbekova A. O.

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**221. THE ROLE OF NON-FINANCIAL REPORTING IN CORPORATE SUSTAINABILITY OF PHARMACEUTICAL INDUSTRY**

Tatiana Bondarenko, Natalia Prodanova, Alex Borodin, Alexander Kokorev, Aidyn Kairbekuly

**SRP. 2020; 11(12): 1514-1522**

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**222. THE DEVELOPMENT OF A COUNTER-RADICALIZATION WEBSITE BASED ON RELIGIOUS SPIRITUALITY FOR MUSLIM ADOLESCENT IN SEMARANG CITY**

Muhammad Amin Syukur, Fatah Syukur, Nidlomun Niam, Ratih Rizqi Nirwana

**SRP. 2020; 11(12): 1523-1528**

» Abstract (?mno=17783) » PDF (index.php?fulltxt=17783&fulltxtj=196&fulltxtp=196-1603265849.pdf) »  
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**223. THE CONNOTATION EXPRESSION OF MAKASSAR CULTURE IN NOVEL DATU MUSENG AND MAIPA DEAPATI BY VERDY R. BASO**

Abbas

**SRP. 2020; 11(12): 1529-1534**

» Abstract (?mno=17788) » PDF (index.php?fulltxt=17788&fulltxtj=196&fulltxtp=196-1603265936.pdf) »  
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**224. INFLUENCE OF SPIRITUAL, ECONOMIC RESISTANCE, HEALTHY BEHAVIOR OF FREE COVID-19 PANDEMICS THROUGH IMMUNITY IN RIAU ISLANDS, INDONESIA**

Chablullah Wibisono, Suryanti, Isramilda, Cevy Amelia

**SRP. 2020; 11(12): 1535-1547**

» Abstract (?mno=17790) » PDF (index.php?fulltxt=17790&fulltxtj=196&fulltxtp=196-1603266028.pdf) »  
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**225. THE PHILOSOPHY OF KAJAOLALIDDONG: A BASIC PATTERN OF LIFE AND CULTURE IN BUGIS AND MAKASSAR**

Muhammad Bahar Akkase Teng, Muhammad Hasyim

**SRP. 2020; 11(12): 1548-1552**

» Abstract (?mno=17795) » PDF (index.php?fulltxt=17795&fulltxtj=196&fulltxtp=196-1603266088.pdf) »  
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**226. THE ROLE OF TEACHERS IN IMPLEMENTING DISTANCE LEARNING IN THE MIDDLE OF THE COVID-19 PLAGUE**

Linda Ika Mayasari, Isthifa Kemal

**SRP. 2020; 11(12): 1553-1557**

» Abstract (?mno=17800) » PDF (index.php?fulltxt=17800&fulltxtj=196&fulltxtp=196-1603266150.pdf) »  
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**227. LEADERS' PERSPECTIVE ON LEADER MEMBER EXCHANGE: A CONCEPTUAL REVIEW**

Roy Setiawan

**SRP. 2020; 11(12): 1558-1563**

» Abstract (?mno=17804) » PDF (index.php?fulltxt=17804&fulltxtj=196&fulltxtp=196-1603266209.pdf) »  
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**228. STRUCTURAL DYNAMICS OF SKIN REGENERATION AFTER THERMAL BURNS IN CONTROLLED WATER ENVIRONMENT (experimental study)**

A.V. KOVALEV, O.V. KHOLMOGORSKAYA, M.V. Korenkova

**SRP. 2020; 11(12): 1564-1567**

» Abstract (?mno=17806) » PDF (index.php?fulltxt=17806&fulltxtj=196&fulltxtp=196-1603266283.pdf) »  
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**229. USE OF MARE'S MILK IN THE TREATMENT OF NON-ALCOHOLIC STEATOHEPATITIS**

Bakytzhan Bimbetov, Abay Zhangabylov, Saule Aitbaeva, Abay Bakytzhanuly, Gulmira Utepbergenova

**SRP. 2020; 11(12): 1568-1571**

» Abstract (?mno=17823) » PDF (index.php?fulltxt=17823&fulltxtj=196&fulltxtp=196-1603266404.pdf) »  
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**230. The Results Of A Clinical Study In Relation To A New Antihistamine Medication Teoritis In The Treatment Of**

### **Patients With Chronic Spontaneous Urticaria**

G.N. Gildeeva, A.V. Belostotsky, O.V. Gridnev, V.I. Yurkov

**SRP. 2020; 11(12): 1572-1576**

» Abstract (?mno=17829) » PDF (index.php?fulltxt=17829&fulltxtj=196&fulltxtp=196-1603266484.pdf) »  
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### **231. INFLUENCE OF SOIL ACTINOMYCETES ON THE GROWTH AND DEVELOPMENT OF OILSEED FLAX IN THE CONDITIONS OF NORTHERN KAZAKHSTAN**

Ainash Nauanova

**SRP. 2020; 11(12): 1577-1581**

» Abstract (?mno=17837) » PDF (index.php?fulltxt=17837&fulltxtj=196&fulltxtp=196-1603266569.pdf) »  
doi: 10.31838/srp.2020.12.233 (<http://dx.doi.org/10.31838/srp.2020.12.233>)

### **232. IDENTIFICATION AND SCREENING OF MICROORGANISMS COMMON IN POULTRY MANURE**

Ainash Nauanova, Dana Yerpasheva, Gulnara Shakhbayeva, Altynbek Yermekov, Elmira Baimbetova

**SRP. 2020; 11(12): 1582-1588**

» Abstract (?mno=17841) » PDF (index.php?fulltxt=17841&fulltxtj=196&fulltxtp=196-1603266667.pdf) »  
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### **233. RESISTANCE OF BARLEY VARIETIES TO THE PATHOGENS OF LEAF SPOTTING ON THE ARTIFICIAL INFECTIOUS BACKGROUND**

Ainash Nauanova

**SRP. 2020; 11(12): 1589-1592**

» Abstract (?mno=17845) » PDF (index.php?fulltxt=17845&fulltxtj=196&fulltxtp=196-1603266762.pdf) »  
doi: 10.31838/srp.2020.12.235 (<http://dx.doi.org/10.31838/srp.2020.12.235>)

### **234. The Effect Of Corona Pandemic On Workers' Psychology And Performance In The Manufacturing Sector**

Abdallah Abdallah

**SRP. 2020; 11(12): 1593-1599**

» Abstract (?mno=17847) » PDF (index.php?fulltxt=17847&fulltxtj=196&fulltxtp=196-1603266848.pdf) »  
doi: 10.31838/srp.2020.12.236 (<http://dx.doi.org/10.31838/srp.2020.12.236>)

### **235. THE STUDY OF THE CHEMICAL COMPOSITION OF THE LIQUID EXTRACT BASED ON GLOBE ARTICHOKE**

Mirrahimova Tanzila Ahrorova, Ismoilova Gusali Muhutdinova

**SRP. 2020; 11(12): 1600-1603**

» Abstract (?mno=17848) » PDF (index.php?fulltxt=17848&fulltxtj=196&fulltxtp=196-1603266934.pdf) »  
doi: 10.31838/srp.2020.12.237 (<http://dx.doi.org/10.31838/srp.2020.12.237>)

### **236. Comparative molecular study between two species of flour beetle *Tribolium castaneum* and *Tribolium confusum* by using RAPD-PCR**

Ammar Ahmed Sultan

**SRP. 2020; 11(12): 1604-1609**

» Abstract (?mno=18184) » PDF (index.php?fulltxt=18184&fulltxtj=196&fulltxtp=196-1603287248.pdf) »  
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### **237. The Prevalence of *Helicobacter Pylori* among Iraqi patients in Babylon province**

Ashwaq Hussein, Ahmed Adil Ali

**SRP. 2020; 11(12): 1610-1612**

» Abstract (?mno=18185) » PDF (index.php?fulltxt=18185&fulltxtj=196&fulltxtp=196-1603287327.pdf) »  
doi: 10.31838/srp.2020.12.239 (<http://dx.doi.org/10.31838/srp.2020.12.239>)

238. **Novel Routes For Heterogenizing Gold Nanoparticles For Catalytic Oxidation Using Molecular Oxygen**  
Zainab Abdulmaged Khalaf  
**SRP. 2020; 11(12): 1613-1619**  
» Abstract (?mno=18186) » PDF (index.php?fulltxt=18186&fulltxtj=196&fulltxtp=196-1603287394.pdf) »  
doi: 10.31838/srp.2020.12.240 (<http://dx.doi.org/10.31838/srp.2020.12.240>)
239. **Molecular detection to type 1 diabetes-coxsackievirus B (T1D-CVB) patients in Hilla province**  
CVB, T1D, GAD65, RT-PCR, Sequence.  
**SRP. 2020; 11(12): 1620-1626**  
» Abstract (?mno=18187) » PDF (index.php?fulltxt=18187&fulltxtj=196&fulltxtp=196-1603287470.pdf) »  
doi: 10.31838/srp.2020.12.241 (<http://dx.doi.org/10.31838/srp.2020.12.241>)
240. **Detection of some DNA repair systems of Klebsiella pneumonia isolated from patients with urinary tract infection**  
Asmaa Khalid Hameed, Qasim Khlaif Abdullah, Aseel Khalid Hameed  
**SRP. 2020; 11(12): 1627-1631**  
» Abstract (?mno=18189) » PDF (index.php?fulltxt=18189&fulltxtj=196&fulltxtp=196-1603287564.pdf) »  
doi: 10.31838/srp.2020.12.242 (<http://dx.doi.org/10.31838/srp.2020.12.242>)
241. **Determination Of Some Heavy Metals In Selected Cosmetic Products Sold At Iraqi Markets**  
Riyadh Mohammed Jihad  
**SRP. 2020; 11(12): 1632-1635**  
» Abstract (?mno=18190) » PDF (index.php?fulltxt=18190&fulltxtj=196&fulltxtp=196-1603287628.pdf) »  
doi: 10.31838/srp.2020.12.243 (<http://dx.doi.org/10.31838/srp.2020.12.243>)
242. **Effect of Tribolium castaneum in Qualitative and Quantitative Contamination with Fungi**  
Sadek Jafar Tuama, Sadek Thajeb Ali, Zainb Hthdy  
**SRP. 2020; 11(12): 1636-1640**  
» Abstract (?mno=18191) » PDF (index.php?fulltxt=18191&fulltxtj=196&fulltxtp=196-1603287690.pdf) »  
doi: 10.31838/srp.2020.12.244 (<http://dx.doi.org/10.31838/srp.2020.12.244>)
243. **Formulation and Evaluation of Metoclopramide Fast Dissolving Film (FDF)**  
Hussam H. Tizkam, Osama Q. Fadhil, Esraa Ghazy  
**SRP. 2020; 11(12): 1641-1646**  
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244. **A Study On The Effects Of Risk Factors On The Pathology And The Development Of Breast Cancer In Iraqi Women**  
Natherah Mohammad Ali AL- Nuaimiee, Ajwad Awad Muhammad, Najwan Kaiser Fakree  
**SRP. 2020; 11(12): 1647-1654**  
» Abstract (?mno=28322) » PDF (index.php?fulltxt=28322&fulltxtj=196&fulltxtp=196-1604915902.pdf) »  
doi: 10.31838/srp.2020.12.246 (<http://dx.doi.org/10.31838/srp.2020.12.246>)
245. **Determination of Naltrexone by using Phentermine as a New Spectrophotometric Coupling Agent**  
Ahmed Adnan AL-Khafagi, Muthana S. Mashkooor, Mohammed K. Kahlol  
**SRP. 2020; 11(12): 1655-1660**  
» Abstract (?mno=18196) » PDF (index.php?fulltxt=18196&fulltxtj=196&fulltxtp=196-1603287922.pdf) »  
doi: 10.31838/srp.2020.12.247 (<http://dx.doi.org/10.31838/srp.2020.12.247>)
246. **Lower Extremity Functional And Mobility Status In Transfemoral Amputees In Malaysia: A Preliminary Study**

Nur Amira Adlana, Nooranida Arifin, Noor Azuan Abu Osmana, Hasif Rafidee Hasbollahd, Saari Mohamad Yatime, Yusniza Mohd Yusoff

**SRP. 2020; 11(12): 1661-1667**

» Abstract (?mno=19660) » PDF (index.php?fulltxt=19660&fulltxtj=196&fulltxtp=196-1603459915.pdf) »  
doi: 10.31838/srp.2020.12.248 (<http://dx.doi.org/10.31838/srp.2020.12.248>)

**247. DEALING WITH GENERATIONAL CHANGES EMPLOYEES: A SYSTEMATIC REVIEW OF GENERATION Z AND ITS PERCEPTIONS ON OFFICE WORK IN THE HEALTH INDUSTRY CONTEXT**

Roy Setiawan

**SRP. 2020; 11(12): 1668-1670**

» Abstract (?mno=19662) » PDF (index.php?fulltxt=19662&fulltxtj=196&fulltxtp=196-1603459997.pdf) »  
doi: 10.31838/srp.2020.12.249 (<http://dx.doi.org/10.31838/srp.2020.12.249>)

**248. Screening Of Antioxidant, A-Glucosidase, And Tyrosinase Inhibitory Activities Of Several Plants Origin West Kalimantan, Indonesia**

Masriani, Dzul Fadly

**SRP. 2020; 11(12): 1671-1675**

» Abstract (?mno=19663) » PDF (index.php?fulltxt=19663&fulltxtj=196&fulltxtp=196-1603460063.pdf) »  
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**249. The Activity Of Lactic Acid Bacteria From Ale-Ale (Fermented Clams) And Cincalok (Fermented Shrimp) As Antioxidant And Antimicrobial**

Mega Sari Juane Sofiana, Warsidah, Nora Idiawati, Syarif Irwan Nurdiansyah, Anthoni B. Arintonang, Rahmawati, Adhyanti, Dzul Fadly

**SRP. 2020; 11(12): 1676-1679**

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**250. THE ROLE OF THE TUTOR AND STUDENTS IN THE PROCESS OF PROBLEM-BASED LEARNING (PBL)**

K.M. Khamchiyev, Y.Kh. Batyayeva, A.Kh. Shandaulov, A.M. Zhashkeyeva, F.M. Suleimenova, G.K. Sagimova

**SRP. 2020; 11(12): 1683-1687**

» Abstract (?mno=19673) » PDF (index.php?fulltxt=19673&fulltxtj=196&fulltxtp=196-1603460407.pdf) »  
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**251. MORPHOLOGICAL, IMMUNOPHYSIOLOGICAL and clinical FEATURES of respiration AND blood CIRCULATION UNDER the influence of COMBINED STRESS in the COVID-19 conditions**

K. M. Khamchiyev, F. M. Suleimenova, G.K. Sagimova, K.T. Adabayev, A. F. Suchshenko, Ye.M. Serkesh

**SRP. 2020; 11(12): 1688-1692**

» Abstract (?mno=19674) » PDF (index.php?fulltxt=19674&fulltxtj=196&fulltxtp=196-1603460505.pdf) »  
doi: 10.31838/srp.2020.12.254 (<http://dx.doi.org/10.31838/srp.2020.12.254>)

**252. Assessment Of The Health Condition Of Nursing**

Dinara I. Kupensheyevaa, Dinara A. Ospanova

**SRP. 2020; 11(12): 1693-1698**

» Abstract (?mno=19676) » PDF (index.php?fulltxt=19676&fulltxtj=196&fulltxtp=196-1603460584.pdf) »  
doi: 10.31838/srp.2020.12.255 (<http://dx.doi.org/10.31838/srp.2020.12.255>)

**253. Evaluation of Antagonistic Potential of Lactobacillus Isolates against Phytopathogenic Fungi and Pathogenic Bacteria in vitro**

Ghydaa H. Aljebourya, Sameer N Mahmouda

**SRP. 2020; 11(12): 1699-1703**

» Abstract (?mno=19680) » PDF (index.php?fulltxt=19680&fulltxtj=196&fulltxtp=196-1603460655.pdf) »  
doi: 10.31838/srp.2020.12.256 (<http://dx.doi.org/10.31838/srp.2020.12.256>)

**254. Ganoderma lucidum attenuates and prevents CCl4-induced hepatic and renal damage in Sprague – Dawley Rats**

Banan R. Dabdoub, Rabeea Hazim Mohammed and Haitham L. Abdulhadi

**SRP. 2020; 11(12): 1704-1709**

» Abstract (?mno=19681) » PDF (index.php?fulltxt=19681&fulltxtj=196&fulltxtp=196-1603460759.pdf) »  
doi: 10.31838/srp.2020.12.257 (<http://dx.doi.org/10.31838/srp.2020.12.257>)

**255. Effects Of Feeding Male Albino Mice On The Liver Of A Buffalo Infected With Fasciola Gigantica Parasite On Some Blood Components**

Maysoon H. Zain, Saja J. Talib and Manal I. Khaleel

**SRP. 2020; 11(12): 1710-1711**

» Abstract (?mno=20844) » PDF (index.php?fulltxt=20844&fulltxtj=196&fulltxtp=196-1603677521.pdf) »  
doi: 10.31838/srp.2020.12.258 (<http://dx.doi.org/10.31838/srp.2020.12.258>)

**256. Clinical diagnosis of the first cases of extrapulmonary (GIT) COVID-19 in Thi-Qar, south of Iraq**

Faez Khalaf MD, Minen Al-Kafajy, PhD, Ali Abdulbaqi Ali Ismael MD, Firas Abdullah Al-Baghdadi MD

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» Abstract (?mno=20853) » PDF (index.php?fulltxt=20853&fulltxtj=196&fulltxtp=196-1603677733.pdf) »  
doi: 10.31838/srp.2020.12.259 (<http://dx.doi.org/10.31838/srp.2020.12.259>)

**257. English Instructional Strategies in EFL Hospitality Departments**

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» Abstract (?mno=22001) » PDF (index.php?fulltxt=22001&fulltxtj=196&fulltxtp=196-1603801881.pdf) »  
doi: 10.31838/srp.2020.12.260 (<http://dx.doi.org/10.31838/srp.2020.12.260>)

**258. Implementations of Notaries/Land Titles Registrar in the Field of Taxation**

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» Abstract (?mno=22022) » PDF (index.php?fulltxt=22022&fulltxtj=196&fulltxtp=196-1603802160.pdf) »  
doi: 10.31838/srp.2020.12.261 (<http://dx.doi.org/10.31838/srp.2020.12.261>)

**259. Correlation Between Serum Asprosin Level And Oxidative Stress In Iraqi Patients With Type II Diabetes Mellitus**

Mohammed Basim Ahmed Alobaidi and Rafah Razooq Hameed Al-Samarrai

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» Abstract (?mno=22227) » PDF (index.php?fulltxt=22227&fulltxtj=196&fulltxtp=196-1603836399.pdf) »  
doi: 10.31838/srp.2020.12.262 (<http://dx.doi.org/10.31838/srp.2020.12.262>)

**260. Study Of The Physical And Chemical Properties Of The Oil Seeds From Iraqi Date Palm**

Nwaedh Mahdi Hanoon Nwaedh, Eugeniy A. Abizov, Aleksey Kovalenko, Olga Gennadievna Stepanova, Mazhuga A.G., Averina Yulia Mikhailovna, Ilya Shlykov

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» Abstract (?mno=22239) » PDF (index.php?fulltxt=22239&fulltxtj=196&fulltxtp=196-1603836482.pdf) »  
doi: 10.31838/srp.2020.12.263 (<http://dx.doi.org/10.31838/srp.2020.12.263>)

**261. Effect Study A Nonsteroidal Antiinflammatory Drug (Indomethacin) on Fertility, Some Reproductive Norms and Histological Changes of Fetuses and Newborns of Administered Albino Rats Before Pregnancy**

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» Abstract (?mno=22242) » PDF (index.php?fulltxt=22242&fulltxtj=196&fulltxtp=196-1603836559.pdf) »  
doi: 10.31838/srp.2020.12.264 (<http://dx.doi.org/10.31838/srp.2020.12.264>)

**262. Covid-19 as a modern determinant of oil demand: pharmaceutical perspective**

Bondarenko Tatiana Grigorievna, Prodanova Natalia Alekseevna, Zhdanova Olga Aleksandrovna, Maksimova Tatiana Pavlovna

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» Abstract (?mno=22243) » PDF (index.php?fulltxt=22243&fulltxtj=196&fulltxtp=196-1603836644.pdf) »  
doi: 10.31838/srp.2020.12.265 (<http://dx.doi.org/10.31838/srp.2020.12.265>)

**263. Investigation of the presence of the Trichomonas vaginalis parasite in women in AL-Hilla city**

Rafal Ahmed Lilo, zahraa M. Al-Tae and Rajaa Mahmoud Ibrahim AL-Jasim

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» Abstract (?mno=22590) » PDF (index.php?fulltxt=22590&fulltxtj=196&fulltxtp=196-1603891244.pdf) »  
doi: 10.31838/srp.2020.12.266 (<http://dx.doi.org/10.31838/srp.2020.12.266>)

**264. Information And Communication Technology (Ict) Procurement Process: Knowledge Gaps In The Pre-Tender Process**

M.M. Vaheed, Juhaini Jabar, M.A. Burhanuddin, M. N. T. Tahir

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» Abstract (?mno=22249) » PDF (index.php?fulltxt=22249&fulltxtj=196&fulltxtp=196-1603836817.pdf) »  
doi: 10.31838/srp.2020.12.267 (<http://dx.doi.org/10.31838/srp.2020.12.267>)

**265. IMPLEMENTATION OF COMMUNICATIVE AND LINGUISTIC STRATEGIES IN PHARMACEUTICAL DISCOURSE**

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doi: 10.31838/srp.2020.12.268 (<http://dx.doi.org/10.31838/srp.2020.12.268>)

**266. Critical Review Of The Health Administration Promotive Functions In Psychiatric Nursing Practices**

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» Abstract (?mno=22252) » PDF (index.php?fulltxt=22252&fulltxtj=196&fulltxtp=196-1603836943.pdf) »  
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**267. SPECIFIC FEATURES OF ORGANIZATIONAL AND METHODOLOGICAL SUPPORT FOR THE DEVELOPMENT OF MEDIATION SERVICES IN EDUCATIONAL INSTITUTIONS (DOMESTIC EXPERIENCE)**

Liudmila V. Shukshina, Svetlana M. Nizamutdinova, Adil A. Mamedov, Alexey V. Kidinov, Aleksandr V. Litvinov, Elena N. Lvova

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doi: 10.31838/srp.2020.12.270 (<http://dx.doi.org/10.31838/srp.2020.12.270>)

**268. Investigation Into Business Continuity And Disaster Recovery Plan Within The Adnoc Onshore In UAE**

Arif Faraj Awadh Alseiari, Murzidah binti Ahmad Murad, Farrarishah binti Abdul Khalid

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» Abstract (?mno=22597) » PDF (index.php?fulltxt=22597&fulltxtj=196&fulltxtp=196-1603891949.pdf) »  
doi: 10.31838/srp.2020.12.271 (<http://dx.doi.org/10.31838/srp.2020.12.271>)

269. **MODERNIZATION OF THE FOOD INDUSTRY IN THE REPUBLIC OF KAZAKHSTAN, ON THE EXAMPLE OF COMBINED PRODUCTS FROM SHEEP MILK**  
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**SRP. 2020; 11(12): 1801-1805**  
» Abstract (?mno=22266) » PDF (index.php?fulltxt=22266&fulltxtj=196&fulltxtp=196-1603837174.pdf) »  
doi: 10.31838/srp.2020.12.272 (<http://dx.doi.org/10.31838/srp.2020.12.272>)
270. **TRANSBOUNDARY MARKET ESTABLISHMENT AS A STRATEGY OF THE PHARMACEUTICS DEVELOPMENT IN RUSSIA UNDER SANCTIONS**  
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» Abstract (?mno=22268) » PDF (index.php?fulltxt=22268&fulltxtj=196&fulltxtp=196-1603837239.pdf) »  
doi: 10.31838/srp.2020.12.273 (<http://dx.doi.org/10.31838/srp.2020.12.273>)
271. **Comparative Characteristics of Pregnancy Course and Labour Outcomes in Pregnant Women, Depending on Observation Conditions and Location of Health Improvement Activities**  
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» Abstract (?mno=23217) » PDF (index.php?fulltxt=23217&fulltxtj=196&fulltxtp=196-1603981844.pdf) »  
doi: 10.31838/srp.2020.12.274 (<http://dx.doi.org/10.31838/srp.2020.12.274>)
272. **COMPARISON OF THE FUNCTIONAL STATE OF HEALTHY MEN AND PATIENTS WITH PROSTATE CANCER AFTER A RADICAL LAPAROTOMIC PROSTATECTOMY BY INTEGRATIVE INDICES**  
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**SRP. 2020; 11(12): 1821-1823**  
» Abstract (?mno=23235) » PDF (index.php?fulltxt=23235&fulltxtj=196&fulltxtp=196-1603982394.pdf) »  
doi: 10.31838/srp.2020.12.275 (<http://dx.doi.org/10.31838/srp.2020.12.275>)
273. **ASSESSMENT OF DRUG NEPHROCISIN'S HYPOAZOTEMIC EFFICIENCY AT VARIOUS STAGES OF CHRONIC KIDNEY DISEASE IN CLINICAL CONDITIONS**  
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274. **VEGETABLE-BASED TRITERPENOID MILIACIN LIMITS INSULIN RESISTANCE IN RATS IN EXPERIMENT**  
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**SRP. 2020; 11(12): 1830-1832**  
» Abstract (?mno=23236) » doi: 10.31838/srp.2020.12.277 (<http://dx.doi.org/10.31838/srp.2020.12.277>)
275. **VEGETABLE-BASED TRITERPENOID MILIACIN LIMITS INSULIN RESISTANCE IN RATS IN EXPERIMENT**  
S. I. KRASIKOV, N. V. SHARAPOVA, D.S. KARMANOVA  
**SRP. 2020; 11(12): 1830-1832**  
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doi: 10.31838/srp.2020.12.277 (<http://dx.doi.org/10.31838/srp.2020.12.277>)
276. **Antioxidant Role Of Milk Thistle In Mice Infected With A Virulent Strain Of Corynebacterium Pseudotuberculosis**

Awni, K.J., Rajaa, S. Abass, Rasha, H. All-Rikabi, Ziad, T. Nuaman

**SRP. 2020; 11(12): 1833-1837**

» Abstract (?mno=23247) » PDF (index.php?fulltxt=23247&fulltxtj=196&fulltxtp=196-1603982603.pdf) »  
doi: 10.31838/srp.2020.12.278 (<http://dx.doi.org/10.31838/srp.2020.12.278>)

**277. A Novel Synthesis, Molecular Structure by X-ray Diffraction of 5-Nitro-2,4,6-Triphenylhexahydropyrimidine, and Some it's Derivatives**

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**SRP. 2020; 11(12): 1838-1847**

» Abstract (?mno=23331) » PDF (index.php?fulltxt=23331&fulltxtj=196&fulltxtp=196-1604006935.pdf) »  
doi: 10.31838/srp.2020.12.279 (<http://dx.doi.org/10.31838/srp.2020.12.279>)

**278. Physical Health Hazardas of Schizophrenia Patients**

KM Ashifa

**SRP. 2020; 11(12): 1848-1850**

» Abstract (?mno=23338) » PDF (index.php?fulltxt=23338&fulltxtj=196&fulltxtp=196-1604007032.pdf) »  
doi: 10.31838/srp.2020.12.280 (<http://dx.doi.org/10.31838/srp.2020.12.280>)

**279. Synthesis of New Ibuprofen Derivatives Containing (Oxothiazolidin-3-yl) Amino Moiety with Expected Biological Activity**

Hayder Rafea, and Muthanna S. Farhan, Ammar A. Fadhil

**SRP. 2020; 11(12): 1851-1856**

» Abstract (?mno=23339) » PDF (index.php?fulltxt=23339&fulltxtj=196&fulltxtp=196-1604007113.pdf) »  
doi: 10.31838/srp.2020.12.281 (<http://dx.doi.org/10.31838/srp.2020.12.281>)

**280. The Protection of Employee Inventions on Private Employment Relationship in Pharmaceutical Industry in Indonesia**

Employee Inventions, Hired to Invent, Patent Law, Indonesia

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» Abstract & References (?mno=25331) » PDF (index.php?fulltxt=25331&fulltxtj=196&fulltxtp=196-1604394992.pdf) »  
doi: 10.31838/srp.2020.12.282 (<http://dx.doi.org/10.31838/srp.2020.12.282>)

**281. Juridical Implications of Bankruptcy on Debtor's Property as a Business Entity CV**

Siti Malikhatun Badriyah, Siti Mahmudah, Amiek Soemarmi, Yos Johan Utama

**SRP. 2020; 11(12): 1864-1869**

» Abstract (?mno=25336) » PDF (index.php?fulltxt=25336&fulltxtj=196&fulltxtp=196-1604395102.pdf) »  
doi: 10.31838/srp.2020.12.283 (<http://dx.doi.org/10.31838/srp.2020.12.283>)

**282. Juridical Analysis of Copyright Protection of Cover Songs Uploaded on the Tiktok Application**

Copyright, Legal Protection, Cover Songs, Tiktok application

**SRP. 2020; 11(12): 1870-1875**

» Abstract (?mno=25357) » PDF (index.php?fulltxt=25357&fulltxtj=196&fulltxtp=196-1604395282.pdf) »  
doi: 10.31838/srp.2020.12.284 (<http://dx.doi.org/10.31838/srp.2020.12.284>)

**283. Comparative effectiveness of pioglitazone, raloxifene, and combined pioglitazone-raloxifene of ovulation-induction therapies in infertile patients with resistant polycystic ovary syndrome**

Rana Hussein Kutaif, Mustafa G. Alabbassi, Weqar Akram Hussein, Zainab Faleh Abdel Hassan, Shatha Khayun Ali

**SRP. 2020; 11(12): 1876-1881**

» Abstract (?mno=25361) » PDF (index.php?fulltxt=25361&fulltxtj=196&fulltxtp=196-1604395528.pdf) »  
doi: 10.31838/srp.2020.12.285 (<http://dx.doi.org/10.31838/srp.2020.12.285>)

284. **Evaluation of levels of oxidants and antioxidants stress markers in saliva and serum of patients with recurrent aphthous stomatitis (RAS)**  
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**SRP. 2020; 11(12): 1882-1888**  
» Abstract (?mno=25362) » PDF (index.php?fulltxt=25362&fulltxtj=196&fulltxtp=196-1604395600.pdf) »  
doi: 10.31838/srp.2020.12.286 (<http://dx.doi.org/10.31838/srp.2020.12.286>)
285. **Synthesis some of thiazolidinone and tetrazole compounds derived from acriflavine and evaluation of their antimicrobial, antifungal and antioxidant activity**  
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**SRP. 2020; 11(12): 1889-1895**  
» Abstract (?mno=25367) » PDF (index.php?fulltxt=25367&fulltxtj=196&fulltxtp=196-1604395715.pdf) »  
doi: 10.31838/srp.2020.12.287 (<http://dx.doi.org/10.31838/srp.2020.12.287>)
286. **Detection of Metallo  $\beta$ -lactamase in Klebsiella pneumoniae Isolated From Upper Respiratory Tract of Carrier individuals In Iraq**  
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**SRP. 2020; 11(12): 1896-1900**  
» Abstract (?mno=25368) » PDF (index.php?fulltxt=25368&fulltxtj=196&fulltxtp=196-1604395819.pdf) »  
doi: 10.31838/srp.2020.12.288 (<http://dx.doi.org/10.31838/srp.2020.12.288>)
287. **Investigating the anti-proliferation activity of Conocarpus erectus Against breast tumor cells in vitro**  
Khulood M. Alsaraf, Maeda H. Mohammad Ahmed Majeed Al-Shammari and Ibrahim S. Abbas  
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» Abstract (?mno=25373) » PDF (index.php?fulltxt=25373&fulltxtj=196&fulltxtp=196-1604396004.pdf) »  
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288. **Frequency of Giardia lamblia among Iraqi children in Kirkuk governorate**  
Burhan Ahmed Mohammed, Zaenab Khorsheed Rasheed, Luay Jumaah Jihad, Kasim Sakran Abass  
**SRP. 2020; 11(12): 1909-1911**  
» Abstract (?mno=25557) » PDF (index.php?fulltxt=25557&fulltxtj=196&fulltxtp=196-1604412255.pdf) »  
doi: 10.31838/srp.2020.12.290 (<http://dx.doi.org/10.31838/srp.2020.12.290>)
289. **Effect of different doses of L-carnitine on fertility of the male reproductive system of albino rats**  
Rashid Khamees Shaban, Noor Ibrahim Hasan AL-Kraie, Qasim Azeez Razooqi  
**SRP. 2020; 11(12): 1912-1919**  
» Abstract (?mno=25376) » PDF (index.php?fulltxt=25376&fulltxtj=196&fulltxtp=196-1604396269.pdf) »  
doi: 10.31838/srp.2020.12.291 (<http://dx.doi.org/10.31838/srp.2020.12.291>)
290. **Synthesis, Characterization and Molecular Docking Simulation of Thioxothiazolidin-4-One Derivatives as Acetylcholinesterase Inhibitors**  
Hiba Ali Hasan, Sura S. Raouf, Basma M. Abd Razik  
**SRP. 2020; 11(12): 1920-1926**  
» Abstract (?mno=25377) » PDF (index.php?fulltxt=25377&fulltxtj=196&fulltxtp=196-1604396404.pdf) »  
doi: 10.31838/srp.2020.12.292 (<http://dx.doi.org/10.31838/srp.2020.12.292>)
291. **Physiological And Histological Toxic Effects Of Different Doses Of Nandrolone Decanoate On The Kidney Of Male Mice**  
Shaima Ahmed Rahim  
**SRP. 2020; 11(12): 1927-1931**  
» Abstract (?mno=25379) » PDF (index.php?fulltxt=25379&fulltxtj=196&fulltxtp=196-1604396508.pdf) »

doi: 10.31838/srp.2020.12.293 (<http://dx.doi.org/10.31838/srp.2020.12.293>)

**292. Detection Of Urinary Bladder Cancer By (ATR-FTIR) Spectroscopy**

Enas Sulaiman Yousif, Duraid Taha Abdulkareem, Nafea sami Enad alboaisa and Ehab Jasim Mohammad

**SRP. 2020; 11(12): 1932-1937**

» Abstract (?mno=25385) » PDF (<index.php?fulltxt=25385&fulltxtj=196&fulltxtp=196-1604396653.pdf>) »

doi: 10.31838/srp.2020.12.294 (<http://dx.doi.org/10.31838/srp.2020.12.294>)

**293. Histological Changes and Some Biochemical Analysis in Male Rats Exposed High Fat Diet**

Yarub Modhar Al-Qazwinia, Muna Hussain AL-Aamelib, Kadhim S. Kadhimb

**SRP. 2020; 11(12): 1938-1943**

» Abstract (?mno=25390) » PDF (<index.php?fulltxt=25390&fulltxtj=196&fulltxtp=196-1604396764.pdf>) »

doi: 10.31838/srp.2020.12.295 (<http://dx.doi.org/10.31838/srp.2020.12.295>)

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**294. Evaluation Of Amniotic Fluid By Ultrasound In Oligohydromnia Managed By Oral Maternal Rehydration In 2nd And 3rd Trimesters In Mosul City**

Abeer Wali Ahmed, Hana Abdul-QaderKhuder, Dalya Mudhafar Abdulrahman

**SRP. 2020; 11(12): 1944-1949**

» Abstract (?mno=25394) » PDF (<index.php?fulltxt=25394&fulltxtj=196&fulltxtp=196-1604396872.pdf>) »

doi: 10.31838/srp.2020.12.296 (<http://dx.doi.org/10.31838/srp.2020.12.296>)

**Review Article**

**295. Synthesis And Preliminary Antimicrobial Evaluation Of Schiff Bases Of N -Benzyl Isatin Derivatives**

Tayseer Hamid Shakir, May Mohammed Jawad Al-Mudhafar

**SRP. 2020; 11(12): 1950-1955**

» Abstract (?mno=26951) » PDF (<index.php?fulltxt=26951&fulltxtj=196&fulltxtp=196-1607666412.pdf>) »

doi: 10.31838/srp.2020.12.297 (<http://dx.doi.org/10.31838/srp.2020.12.297>)

**296. Re-Weighted Least Squares: The Best Negative Binomial Regression Methods In Determining The Congenital Anomalies Risk Factors**

Ahmed Hamza Abood, Suhair Khatan Ismail, Adnan Fadhil Toma Sabah

**SRP. 2020; 11(12): 1956-1963**

» Abstract (?mno=26954) » PDF (<index.php?fulltxt=26954&fulltxtj=196&fulltxtp=196-1607666482.pdf>) »

doi: 10.31838/srp.2020.12.298 (<http://dx.doi.org/10.31838/srp.2020.12.298>)

**297. Evidence-Based Medicine: Short Course Effects To A Medical Undergraduate**

Dhafer Basheer Al-Youzbaki, Nawar Sahib Khalil, Ruqaya Subhi Tawfeeq

**SRP. 2020; 11(12): 1964-1968**

» Abstract (?mno=26961) » PDF (<index.php?fulltxt=26961&fulltxtj=196&fulltxtp=196-1607666549.pdf>) »

doi: 10.31838/srp.2020.12.299 (<http://dx.doi.org/10.31838/srp.2020.12.299>)

**298. The Value Of Immunohistochemical Expression Of Estrogen Receptor And Progesterone Receptor Receptors In The Prognosis Of Iraqi Women With Breast Carcinoma**

Marium Mohammed Burhan, Asmaa Mohammed Mekkey, Hamedia Abdull Al-Mahdi Ghazi, Hayder Abdul Amir Makki Al-Hindy

**SRP. 2020; 11(12): 1969-1974**

» Abstract (?mno=26969) » PDF (<index.php?fulltxt=26969&fulltxtj=196&fulltxtp=196-1607666640.pdf>) »

**299. Comparison Between Parenteral And Oral Iron Replacement Therapy In Anemic Iraqi Female Patients**

Hazim Ismael Ghazzay, Muhammad Hammad Jasim Alajeely, Taghreed Sabah Saeed Al-Rawi, Mahir Ali Jasim4

**SRP. 2020; 11(12): 1975-1978**

» Abstract (?mno=26971) » PDF (<index.php?fulltxt=26971&fulltxtj=196&fulltxtp=196-1607666706.pdf>) »

doi: 10.31838/srp.2020.12.301 (<http://dx.doi.org/10.31838/srp.2020.12.301>)

**300. Synthesis And Anticancer Activity Evaluation Of Novel Ligand 2- [2 - (5-Chloro Carboxy Phenyl) Azo] 1-Methyl Imidazole (1-Mecpai) With Some Metal Complexes**

Makarim A. Mahdi, Layth S. Jasim and Moslem H. Mohamed

**SRP. 2020; 11(12): 1979-1987**

» Abstract (?mno=26972) » PDF (<index.php?fulltxt=26972&fulltxtj=196&fulltxtp=196-1607666828.pdf>) »

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**Research Article**

**301. Adsorption Of Pollutants By Using Low-Cost(Environment-Friendly): Equilibrium, Kinetics And Thermodynamic Studies: A Review**

Aseel M. Aljeboree Nour Abd Alrazzak, Mohammed B. Alqaraguly, Makarim A. Mahdi, Layth S. Jasim, Ayad F. Alkaim

**SRP. 2020; 11(12): 1988-1997**

» Abstract (?mno=31008) » PDF (<index.php?fulltxt=31008&fulltxtj=196&fulltxtp=196-1608052377.pdf>) »

doi: 10.31838/srp.2020.12.303 (<http://dx.doi.org/10.31838/srp.2020.12.303>)

**Review Article**

**302. Genotyping of Pseudomonas aeruginosa Strains Isolated from Surgical Site Infected Patients by RAPD-PCR**

Marwa Fotouh Mahmoud, Fayza Mahmoud Fathy, Maha Kamal Gohar, Wael Mahmoud Awad, Manar Hassan Soliman

**SRP. 2020; 11(12): 1998-2005**

» Abstract (?mno=28174) » PDF (<index.php?fulltxt=28174&fulltxtj=196&fulltxtp=196-1607767876.pdf>) »

doi: 10.31838/srp.2020.12.304 (<http://dx.doi.org/10.31838/srp.2020.12.304>)

**303. Efficacy of Surgical Treatment of Unstable Sacral Fractures**

Omar Abd El-Whab Kelany, Waleed Mohamed Nafae, Ahmed Mostafa EL-Naggar, and Ahmed Hamdy Mohamed Rashad

**SRP. 2020; 11(12): 2006-2011**

» Abstract (?mno=28185) » PDF (<index.php?fulltxt=28185&fulltxtj=196&fulltxtp=196-1607767959.pdf>) »

doi: 10.31838/srp.2020.12.305 (<http://dx.doi.org/10.31838/srp.2020.12.305>)

**304. Laparoscopic Surgery Compared to Open Surgery for Complicated Appendicitis**

Hatem Mohammad Abd ElMoneim, Haitam Nureddin Mohammed Shames, Mahmoud Abdou Yassin Ahmed

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**305. Physical Fitness Level Vs Cumulative Achievement Index**

Hartati, Iyakrus, Destriana, Lordinio A. Vergara

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306. **Value of adding a T2 mapping sequence to a routine MR imaging protocol in evaluation of articular cartilage of the knee joint**  
Samar Shehata Mohamed El Sayed, Mohamed Amin Nassef, Mennatallah Hatem Shalaby, Ali Haggag Ali  
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307. **The Effect of Organizational Justice and Trust on Organizational Commitment of Junior High School Teachers in Wenang District Manado**  
Jeane Marie Tulung, Hedy Rogahang, Olivia Wuwung, Arik Lapian, Jhoni Lagun Siang, Subaedah Luma  
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Jeane Marie Tulung, Arik Lapian, Hedy Rogahang, Olivia Wuwung, Jhoni Lagun Siang, Subaedah Luma  
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309. **The Relationship Between Job and Some Biochemical Markers in Kirkuk General Hospital**  
Omar Thaer Jawad, Ahmed Suhail Hussein, Maath Mohammed Muhsin  
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Sardushkin M.V., Shiryayeva Y.K., Donskaya L., Vifor R., 5Donina M.V  
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311. **USEFULNESS OF ACCOUNTING INFORMATION SYSTEMS FOR BUSINESSES**  
Meiryani, Yuliana Lisanti, Mohamad Heykal, Dianka Wahyuningtias  
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312. **THE IMPLICATION AND IMPLEMENTATION OF LAW NUMBER 24 OF 2009 ON NATIONAL FLAG, LANGUAGE, EMBLEM AND NATIONAL ANTHEM OVER THE FREEDOM OF CONTRACT PRINCIPLE IN INDONESIA**  
Erwin, Tarya Sonjaya, Bambang Sujatmiko  
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Bondareva G. M., Stadnyuk G. T., Grebennikova T., Shashlova M., Donina M. V.  
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**314. THE INFLUENCE OF PROMOTION TOWARD BRAND MEDICAL TOURISM OF CIMANDE, WEST JAVA–INDONESIA**

Dhian Tyas Untari, Istianingsih

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**315. COMPETENCY MODEL OF EMPLOYEE PERFORMANCE APPRAISAL PREPARATION IN THE COMPANY CONSTRUCTION: A QUALITATIVE METHOD**

Zahara Tussoleha Rony

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Istianingsih

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**317. Modulation of IL-10 expression byIL-10-592C / A polymorphism (rs1800872) isindependent of the presence and bacterial load ofclassical period on to pathogens**

Huda J. Moheemad, Sadeq K. Hachim, Nabra F. Salih

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**318. Criticism of the discourse and Oriental thought according to Muhammad Abed Al-Jabri A Critical Analytical Study of Vision and Approach**

Sajida Abed Kadhim

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**319. Dental trauma of permanent incisor teeth in children/ Kirkuk city**

Maha Isam Abdulazeez, Anas Qahtan Hamdi, Haitham Younis Mohammed, Mohammed Ahmed Mustafa

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**320. COMMITMENT TO REDUCE CONCENTRATION OF GREENHOUSE GASES: INTERNATIONAL RULES AND STATE PRACTICES**

Maskun, Marthen Napang, Naswar, Achmad, Sri Susyanti Nur, Nurul Habaib Al-Mukaramah

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**Customers.**

Sarvjeet Kaur Chatrath, Amanjot Kaur, Harpreet Singh

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**322. Evaluation of skipping breakfast and school meal in relation to headache among Secondary school students in Tikrit City**

Nisreen M. Ibraheem, Muna M. Ibraheem, Mayada K. Mohammed, Ammar L., Nihad N. Helal, Usama J. Abdulqader, Duaa Salim, Ola Hakeem

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**323. Clinicopathological Correlation Can Improve Early Detection of Cervical High-Grade Intraepithelial Lesions and Cervical Squamous Cell Carcinoma**

Inas Abd Al Majed Rasheed

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**324. Antimicrobial activity of Ceratonia siliqua L. extract against diarrheagenic E-coli.**

Raghad Saad Abdulkareem, Wisal R. Yaseen Al-Hayali, Israa Izalden Ibrahim

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**325. Generalized joint hypermobility and backache**

Vladimir Eduardovich Li, Andrey Vasilievich Chemeris, R.A. Kanaev, Asiya Erbulatovna Igljikova

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**326. Prevention of Caries in The Precociously Erupted Permanent Teeth by Treatment of Fissures with Erbium Laser Beams and Sealing Them with Sealants**

Nazgul Moldakhanovna Onaibekova, Bakhyt Zhakenovna Nyssanova, Meyramgul Kozhakhmetovna Shayakhmetova, Saltanat Samigullova Kurmangazina, Konstantin Vladimirovich Borzilov

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**327. Journal: Systemic Review in Pharmacy The Interconnection of Metabolic Disorders and Carotid Atherosclerosis in the Kazakh Population**

Kamshat M. AKHMETOVA, Tamara A. VOCHSHENKOVA, Erbolat D. DALENNOV, Aigul A. ABDULDAYEVA, Valeriy V. BENBERIN

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Ali Yahya Abdullah alsallami, Ahmed Abdulzahra Jeyad Almurshidy, Basim Abd Ali Saeed

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329. **Comparative Characteristics Course of Pregnancy and Delivery Outcomes of Young and Elderly Mothers**  
Begimbekova Lazzat, Aliyeva Elnara, Zhapar Maira, Demeuov Alibek, Kulzhabayeva Zhazira, Zholyzbekova Lyailya, Kemelbekov Kanatzhan

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330. **An Integrative Reviews: The Role of Transformational Leadership and Personality Leaders Against Followers Performance Through Leader-Member Exchanges and Trustworthiness**

Roy Setiawan

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331. **The Measurements of Follower Performance in aspects of Leadership, Personality, Leader-Member Exchange, and Trustworthiness**

Roy Setiawan

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Roy Setiawan

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333. **Isolates Depression is Associated with the Result RT-PCR Diagnostic of COVID-19**

Sadya Wendra, Herin Setianingsih, Eva Pravitasari Nefertiti

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334. **The Benefits and Risks of Investment through the Sharia Mutual Funds in Indonesia**

Agung Sujatmiko

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335. **Transparency and Accountability in Management of Village Funds in Indonesia**

M. Hadi Shubhan, Rr. Herini Siti Aisyah, L. Budi Kagramanto, Siswanto, Sudarsono

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**336. The Changes of Mice Reproductive Hormones (Mus musculus) Caused by Mangosteen (Garcinia mangostana L.) Skin Extract**

Melyana Nurul Widyawati, Soeharyo Hadisaputro, Ari Suwondo

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**337. Hydrogen Permeability through Composite Asymmetric Nb Membranes with Metal Barrier Layers**

Alexander Panichkin, Bagdaulet Kenzhaliyev, Aidar Kenzhegulov, Akerke Imbarova, Zhanar Karboz

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**338. Evaluation of Niobium and Tantalum-Based Materials of the Hydrogen-Permeability Membranes for the Degree of Deformation and the Optimal Temperature Range of Exploitation**

Alexander Panichkin, Axaule Mamayeva, Aidar Kenzhegulov, Balzhan Kshibekova, Zhanar Karboz

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**339. Educational Training Using Transmitted Light Device on Nurses' Performance and Pain among Children Undergoing Peripheral Intravenous Cannulation**

Fatma Ahmed Elsobkey, Amal A. Abd El Salam, Hidaia Morshid M. Amer, Reda Elfeshawy

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**340. Acute and Subchronic Toxicity of Momordica Charantia L Fruits Ethanolic Extract in Liver and Kidney**

Syamsudin Abdillah, Bilqis Inayah, Kartiningsih, Anggita Balqis Febrianti, and Safira Nafisa

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**341. Detection the Nitric Oxide Levels upon Exposure to Interferon Gamma and Dexamethasone in Chicken Lymphoid Cancer Cells**

Israa Najm Abdullah Al-Ibadi, Abbas Hadi Jasim Al-Mahmoudi, Hiba Turkey Atyia

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**342. Evaluation of IL-1 and IL-10 Concentration Level in Study of Epstein Barr Virus that Detected in Patients Suffered from Stomach Cancer in Al Hilla City**

Haneen Hussein Abd Al-ridha, Humam Kasem Hussein

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343. **Antitumor Attributes of 4-Methylumbelliferone-Based Derivatives: A Review**  
Noora Thamer Abdulaziz, Yasser Fakri Mustafa\*  
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344. **The Reality of Change Management among Schools' Principals in Misan Governorate from the Perspective of Physical Education Teachers**  
Mohammed Malik Saleem, Hasan Salim Ali, Hayder Abood Jabir  
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345. **The Development of Learning Management Process to Enhance the Competency of Student Teachers in Designing Instructional Package to Develop Creativity of Early Childhood by Using Problem-Based Learning and Lesson Study Approach**  
Jutiporn Assawasowan  
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346. **Being an Entrepreneur in the Pharmaceutical Sector of Thailand and Ensuring Career Success: Role of Entrepreneurial Grit and Orientation**  
Sumalee Ramanust  
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347. **Antecedents of Counterfeit Drugs Purchase Intention from elderly person laborers of Thailand's Consumer: Role of Materialism, Ethics, and Variety Seeking and Brand Love**  
Wijittra Srisorn  
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348. **The Social Side of Traditional Pharmaceutical Communities of Thailand: Can a Mixture of Social and Sustainable Approach Happy-8 for Help Society?**  
Yananda Siraphatthada  
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349. **Relationship Between Talent and Personality Towards Employment of Entrepreneurs in Thailand: Study of Elderly in Thailand**  
Wijittra Srisorn  
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350. **The Effects of Marketing Innovation on the Business Performance of Community Enterprises for the Herbal**

## **City in the North of Thailand**

Yananda Siraphatthada

**SRP. 2020; 11(12): 2318-2324**

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### **351. Relationship Between Knowledge Management and Ethical Leadership on Human Capital Management in Herbal City Community Enterprises: Study on the North of Thailand**

Yananda Siraphatthada

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## **Systematic Review**

### **352. Protocol for Systematic Review and Meta-Analysis on Randomized Clinical Trials on the Efficacy and Safety of Pitavastatin**

Adel Sadeq, Asim Ahmed, N Al Mazrouei, (Al Mazrouei N), Farah Hamad Farah, Judit Don, Ahmed Ibrahim Fathelrahman, Maisoun Alkaabi (Alkaabi M), Kishore Gnana, Islam Moahammed Abd Alla, Abdulla Al Amodi, Abubakar B. Abubakar, Abdelgadir Elamin, Sasha Mohammed Elamin Suliman, Israa Yousif Khidir, Salma Mohammed Magboul, Doaa Nassar, Nour Alhouda Kassem, Haia Abdulsamad, Asil Adel

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## **Review Article**

### **353. Evaluate the Possible Roles of GSTM and GSTT Genes Polymorphism and its Interaction with PAHs in Charcoal Exposed Workers**

Sarhan Rashid Sarhan, Nibras Zeyad Yahya, Orooba Mohammed Saeed Ibrahim

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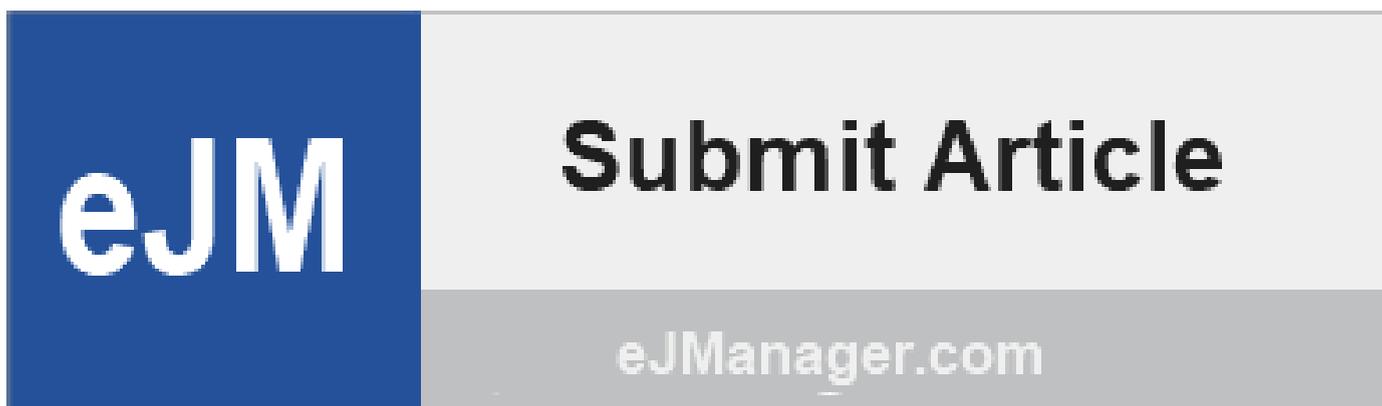
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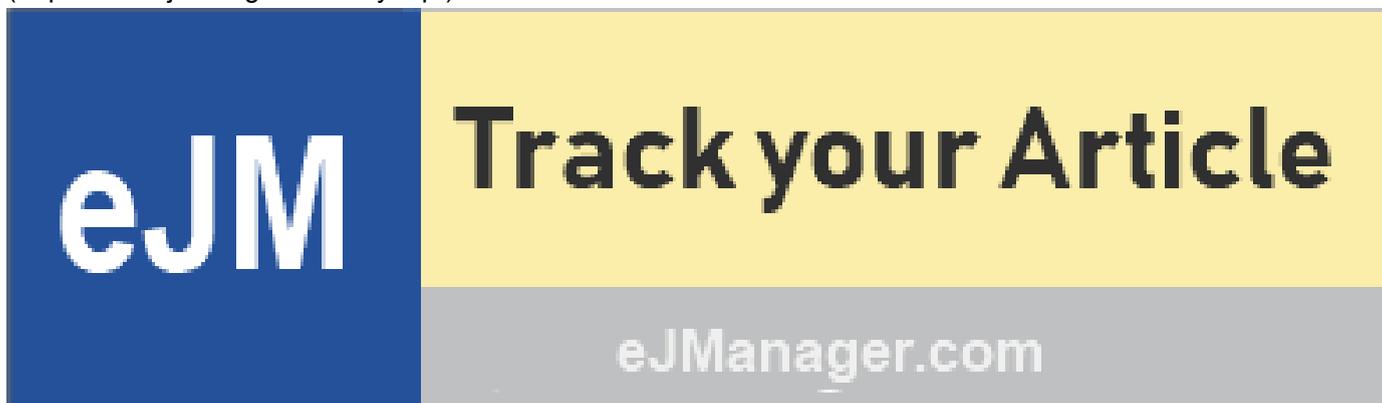
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Characteristics Growth and Adaptability of Dwarf-odot Elephantgrass (*Pennisetum purpureum* cv. Mott) Grown in Gorontalo at Established Year

Muhammad Mukhtar.

#### ABSTRACT

Abstract

The study was carried out at the Experimental field of Agricultural Faculty, Gorontalo State University from the rainy season (November 2018 – May 2019) to dry season (June – October 2019). The examined variety was dwarf-odot elephantgrass (*Pennisetum purpureum* cv. Mott). The first experiment was planting density. The

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planting density are high density (16 plants/m<sup>2</sup>, 25 cm × 25 cm of spacing), medium density (8 plants/m<sup>2</sup>, 50 cm × 25 cm), and low density (4 plants/m<sup>2</sup>, 50 cm × 50 cm). The second experiment was the implementation of inorganic fertilizer, namely single inorganic and compound inorganic fertilizers. Plant spacing density from high density to low density has a significantly effected (P> 0.05) on the growth characters of dwarf-odot elephantgrass were tiller number (TN), mean tiller dry matter weight (MTW) and total dry matter weight (TDMW), herbage dry matter yield (HDMY) and percentage leaf blade (PLB). The level of inorganic fertilizer, both single and compound fertilizer, showed a very significantly effected (P> 0.01) on the character of growth and production of dwarf-odot elephantgrass biomass. Single NPK level yields higher than compound NPK level on plant height (PH) growth, TN, HDMY and PLB. PH, TN, HDMY and PLB increased with the increase in levels of fertilizer dosage in both single and compound fertilizers. Achievement of HDMY per one TN dwarf-odot elephantgrass were 50%, 60% and 69% for treatment without fertilizer,



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compound fertilizer and  
single fertilizer,  
respectively.

Key words: Dry matter,  
herbage, inorganik  
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# Characteristics Growth and Adaptability of Dwarf-odot Elephantgrass (*Pennisetum purpureum cv. Mott*) Grown in Gorontalo at Established Year

Muhammad Mukhtar

Animal Department Science, Faculty of Agricultural, Gorontalo State University, Indonesia.  
Email: mmuhtar@ung.ac.id

## ABSTRACT

The study was carried out at the Experimental field of Agricultural Faculty, Gorontalo State University from the rainy season (November 2018 - May 2019) to dry season (June - October 2019). The examined variety was dwarf-odot elephantgrass (*Pennisetum purpureum cv. Mott*). The first experiment was planting density. The planting density are high density (16 plants/m<sup>2</sup>, 25 cm × 25 cm of spacing), medium density (8 plants/m<sup>2</sup>, 50 cm × 25 cm), and low density (4 plants/m<sup>2</sup>, 50 cm × 50 cm). The second experiment was the implementation of inorganic fertilizer, namely single inorganic and compound inorganic fertilizers. Plant spacing density from high density to low density has a significantly effected ( $P > 0.05$ ) on the growth characters of dwarf-odot elephantgrass were tiller number (TN), mean tiller dry matter weight (MTW) and total dry matter weight (TDMW), herbage dry matter yield (HDMY) and percentage leaf blade (PLB). The level of inorganic fertilizer, both single and compound fertilizer, showed a very significantly effected ( $P > 0.01$ ) on the character of growth and production of dwarf-odot elephantgrass biomass. Single NPK level yields higher than compound NPK level on plant height (PH) growth, TN, HDMY and PLB. PH, TN, HDMY and PLB increased with the increase in levels of fertilizer dosage in both single and compound fertilizers. Achievement of HDMY per one TN dwarf-odot elephantgrass were 50%, 60% and 69% for treatment without fertilizer, compound fertilizer and single fertilizer, respectively.

**Keywords:** Dry matter, herbage, inorganik fertilizer, plant density

## Correspondence:

Muhammad Mukhtar

Animal Department Science, Faculty of Agricultural, Gorontalo State University, Indonesia.  
Email: mmuhtar@ung.ac.id

## INTRODUCTION

Elephantgrass (*Pennisetum purpureum Schumach*) is one of the most potential tropical/sub tropic grasses in producing forage or biomass as ruminant feed with very high quality and quantity. The high growth character of this elephantgrass plant is very fast (infrequency cutting) and produces so many tillers, but its nutritional content can disappear along with the age of the plant, so that good management is needed to obtain maximum results, namely the potential for fresh ingredients and high nutrient content in vegetative phase (Mukhtar, 2006). Many researchers have investigated the characteristics and structure of elephantgrass with various applications and adaptation to conditions and areas of growth, which are generally developed progeny, treatment, fertilization and application systems and modifications in an effort to further improve palatability and nutritional value.

In its development, the elephantgrass is still a cut and carry system and its pasture has not allowed the farmer or industry to be used as grazing pasture directly so that farmers often use field grass. This condition is the background and always thought by the researchers so that there is a variety of elephantgrass that has a very large biomass potential but can be used as pasture grazing directly, thereby reducing labor costs. The type of grass has been developed and researched by researchers to get the best growth conditions and biomass production which of course has great potential as well as facilitating farmers as direct grazing land, so dwarf varieties of elephantgrass are found.

Some types of dwarf varieties are "Mott" dwarf (Sollenberg, 1989), Dwarf-Early and Dwarf-late (Mukhtar et al, 2006), and "odot" dwarf types have also been developed in Java, Indonesia, but it has not been spread evenly across all regions in Indonesia, especially getting this real adaptability data and the character of the dwarf-

odot plant growth. Dwarf odot elephantgrass (*Pennisetum purpureum cv. Mott*) has a characteristic ratio of the ratio of leaves that is high compared to the stem, so the distance between the segments that are more tightly different from the elephantgrass that we usually encounter. This variety is a very easy to cultivate grass that is very popular with ruminants. This grass is almost similar to the normal elephantgrass, the difference is the leaves are weaker, not itchy because the leaves are soft, the growth is very fast. This Dwarf-odot was first developed in Java while this area included areas with high rainfall so that the development of growth and production of biomass was not maximal, this is because the character of the dwarf-odot variety is still almost the same as the normal variety which does not need too much water or the growth and production of biomass will be less than optimal in the rainy season with a very high intensity of rainfall, so this dwarf variety will be suitable in areas with moderate rainfall intensity.

This dwarf "odot" of elephantgrass certainly needs to be examined for the whole of Indonesia so that its adaptability and growth characteristics can be known for certain areas with high, moderate and low rainfall and most importantly the growth of dwarf-odot elephantgrass adaptation can also grow well in sub-optimal land areas that are still too much in all regions of Indonesia. This type of dwarf-odot elephantgrass needs to be developed and cultivated by farmers in Indonesia including breeders in Gorontalo Province because this type of dwarf-odot varieties of elephantgrass will provide a dual solution in meeting the quality and quantity of breeders' feed and answering the challenges of feed strengthening in Indonesia.

Environmental factors that can affect the growth and production of odot elephantgrass include setting the spacing and fertilizing treatment. Setting the spacing

## *Characteristics Growth and Adaptability of Dwarf-odot Elephantgrass (Pennisetum purpureum cv. Mott) Grown in Gorontalo at Established Year*

needs to be adjusted so as not to disturb the growth of odot elephantgrass. The growth and production of odot elephantgrass will be different if different spacing is used, because the spacing will affect the competition between plants. This competition or competition occurs because to get the needs of each grass such as sunlight, water, nutrition, growing space and CO<sub>2</sub>. Likewise, with the treatment of fertilization, generally the community uses organic fertilizer to further accelerate obtaining maximum results.

In order to recommend the cultivation of dwarf-odot elephantgrass production in Eastern Indonesia, it is necessary to examine the growth of adaptability of dwarf-odot elephantgrass characteristics with the condition of regions with moderate rainfall by providing treatment of spacing and using normal amount of organic fertilizer and fertilization with inorganic fertilizers, so that it can answer the growth and development of dwarf-odot variety biomass both with and without fertilization. This treatment is done because there is a planting of grass by farmers who only allow, using makeshift organic fertilizers and those who fertilize with inorganic fertilizers.

### **MATERIALS AND METHODS**

#### **Plant materials**

The study was carried out at the Experimental field of Agricultural Faculty, Gorontalo State University from the rainy season (November 2018 – May 2019) to dry season (June – October 2019). The examined variety was dwarf-odot elephantgrass (*Pennisetum purpureum cv. Mott*). The Study adaptability is carried out in two stages. The first stage is the implementation of treatment of plant spacing (rainy season and dry season) and the second stage is the implementation of fertilizer treatment using inorganic fertilizer (rainy season).

### **Experimental design**

#### **Experiment one**

The experimental plots were arranged in a blocked design of Latin square method at three replications for each planting density. The planting density are high density (16 plants/m<sup>2</sup>, 25 cm × 25 cm of spacing), medium density (8 plants/m<sup>2</sup>, 50 cm × 25 cm), and low density (4 plants/m<sup>2</sup>, 50 cm × 50 cm). Defoliation is carried out three times in the rainy season, that are in the months of January, March and May 2018, and twice in the dry season in the months of August and October 2018. As a basal dressing, fermented cattle manure at 600 g/m<sup>2</sup> applied at the beginning in the field to neutralize the field from the acidic properties of the soil. There is no applied cattle manure during the growth or after defoliation of both seasons. Defoliation is carried out every 1 month considering it is still uses stem cuttings or rooted tillers. The cutting height of defoliation was 10 cm above the ground surface.

#### **Experiment two**

In the second phase of the research is the implementation of inorganic fertilizer treatment, namely single inorganic and compound inorganic fertilizers. The experimental plots were arranged in a blocked design of Latin square method at eight treatments and three replications. The single inorganic fertilizers used are nitrogen (urea), phosphorus (TSP) and potassium (KCL). Whereas compound inorganic fertilizers used are SP36 (nitrogen, phosphorus and potassium). The plant spacing density used is 50 cm x 25 cm (8 plants/m<sup>2</sup>). The plants age at defoliation is 90 days. The amount of inorganic fertilizer used in the study was implemented 3 times, namely 30% before planting, 30% when the plants were 30 days old and 40% when the plants were 60 days old. The level of single and compound inorganic fertilizers at the research stage is shown in Table 1.

Table 1. Level of N-P-K single and NPK compound fertilizers used in the treatments.

No.	Level fertilizer	Single fertilizers			Compound fertilizer
		Nitrogen (N)	Phosphorus (Ph)	Potassium (P)	
-----Kg/Ha-----					
1.	Control (T0)	0	0	0	0
2.	Single fertilizer (T1)	300	100	100	0
3.	Single fertilizer (T2)	450	150	150	0
4.	Single fertilizer (T3)	600	200	200	0
5.	Compound fertilizer (T4)	100	0	0	150
6.	Compound fertilizer (T5)	100	0	0	300
7.	Compound fertilizer (T6)	100	0	0	450
8.	Compound fertilizer (T7)	100	0	0	600

Description: implementation of nitrogen at T4 – T7 as the basis for giving N content.

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### **Sampling methods for the growing period**

A single plant per replication (three replications for each density) was sampled and cut at 10 cm above the ground surface, and measured for tiller number (TN), mean tiller weight (MTW), total dry matter weight (TDMW), percentage of leaf blade (PLB) and herbage dry matter yields (HDMY).

### **Data analysis**

The data were analyzed statistically by the analysis of variance and the difference in the mean value was calculated by the least significant different (LSD) method at 5 % and 1% level.

## **RESULTS**

### **Experiment one**

The effect of plant spacing density on the growth character of dwarf-odot elephantgrass in both the rainy and dry seasons shown in Figure 1. Defoliation of plants by treatment of plant spacing density greatly influences the growth characters and biomass production both in the rainy and dry season. In this study, plant spacing density from high density (16 plants/m<sup>2</sup>) to low density (4 plants/m<sup>2</sup>) has a significantly effected ( $P > 0.05$ ) on the growth characters of dwarf-odot elephantgrass were tiller number (TN), mean tiller dry matter weight (MTW) and total dry matter weight (TDMW) both at the rainy and dry seasons. This effect was very possible because of the calculation of the large number of plants at each plant spacing from high, medium and low density. In addition, the amount of light entering until the ground surface is still balanced at all plant spacing considering the planting is still in the first-year establishment.

TN increased linearly after planting in each defoliation,

from the first defoliation to third defoliation during the rainy season, and from the fourth to fifth defoliation in the dry season. The growth of TN showed a largest amount in high density, follow by medium and the lowest density, but the value of the increase was almost the same at all spacing except in the third defoliation where TN experienced a very high increased in high density compared to medium and low density. This is due to the high rainfall of that month. As reported by Mukhtar, M (2006) that rainfall experiences a peak between April - May each year in Gorontalo Province (normal rainfall conditions). TN growth showed larger in the rainy season than the dry season, although the frequency of defoliation is longer in the dry season.

TN, TDMY and HDMY increased with the increase in planting density from 4 to 16 plants/m<sup>2</sup> in this experiment. It was already reported in elephantgrass that TN, TDMY and HDMY increased as planting density increased from 1.6 to 4 plants/m<sup>2</sup> by Miyagi (1990), and from 4 to 8.2 plants/m<sup>2</sup> by Ito et al. (1989). In this experiment, the range was expanded to 16 plants/m<sup>2</sup>. This study showed a positive effect of increasing growth of each character with the treatment of plant spacing density. The growth in the fourth defoliation was larger because there was an extension of 1 month as a form of anticipation and gives enough time for plants to increased regrowth and production in the fifth defoliation which of course will be smaller and disrupt growth if no extension time.

The effect of plant spacing densities on dwarf-odot elephantgrass on the herbage dry matter yields and percentage leaf blade, both in the rainy and dry seasons was shown in Table 2.

Table 2. Change in herbage dry matter yields and percentage of leaf blade in dwarf-odot elephantgrass planted during rainy and dry seasons in 2018.

Season	Defoliation	Herbage Dry Matter Yield (gr/m <sup>2</sup> )			Percentage of Leaf Blade (%)		
		LD	MD	HD	LD	MD	HD
Rainy	First	835 <sup>e</sup>	1.142 <sup>de</sup>	1.213 <sup>d</sup>	59,0 <sup>ns</sup>	60,3 <sup>ns</sup>	65,5 <sup>ns</sup>
	Second	1.115 <sup>de</sup>	1.377 <sup>c</sup>	1.592 <sup>c</sup>	65,1	68,0	73,8
	Third	921 <sup>e</sup>	1.203 <sup>d</sup>	1.396 <sup>c</sup>	55,4	57,9	60,6
Dry	Fourth	1.483 <sup>c</sup>	1.931 <sup>b</sup>	2.418 <sup>a</sup>	49,9	50,3	51,3
	Fifth	1.205 <sup>d</sup>	1.709 <sup>bc</sup>	1.989 <sup>b</sup>	40,1	43,1	49,7

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Annual ((gr/year/m <sup>2</sup> ))	5.559 <sup>C</sup>	7.362 <sup>B</sup>	8.608 <sup>A</sup>	-----	-----	-----
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Planting density : HD = high density (16 plants/m<sup>2</sup>), MD = medium density (8 plants/m<sup>2</sup>), LD = low density (4 plants/m<sup>2</sup>). Values with different letters denote significant difference among defoliations and seasons at 5% level. NS = not significant.

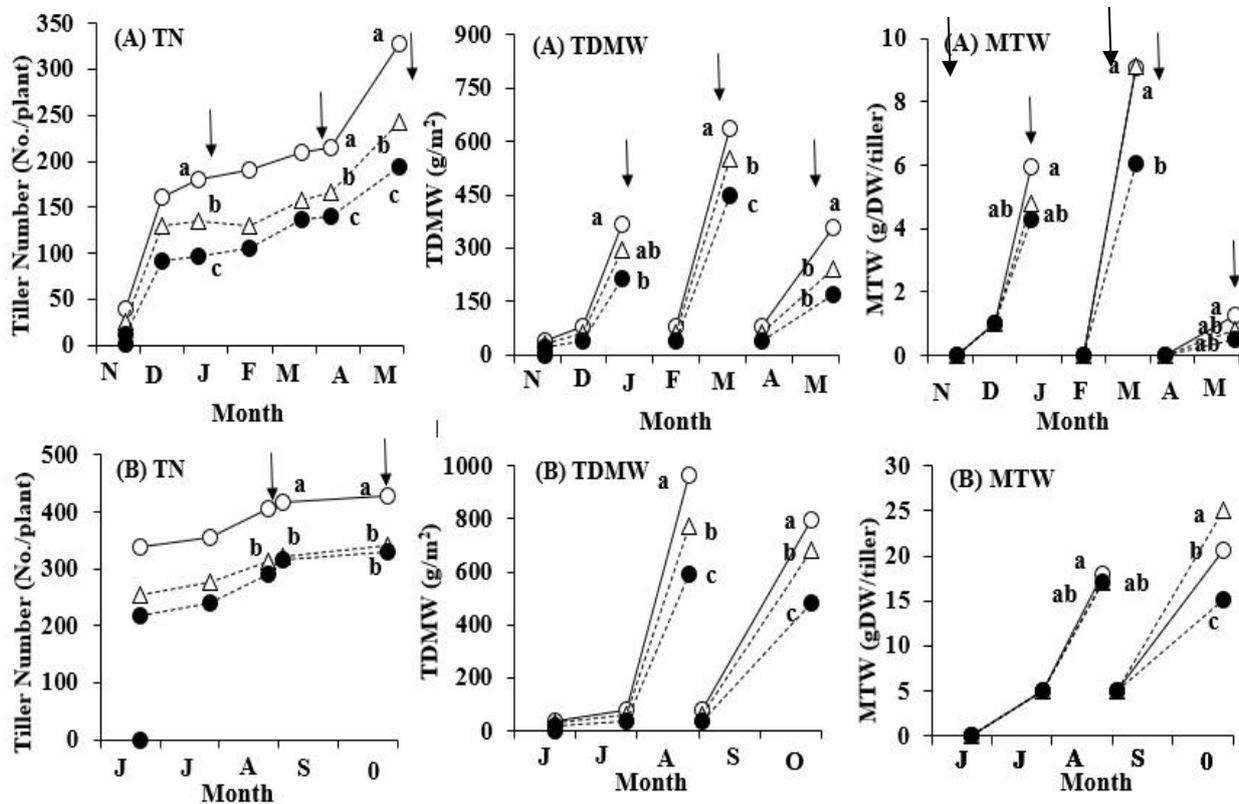


Figure 1. Change with time in tiller number (TN), total dry matter weight (TDMW), and mean tiller weight (MTW) of dwarf-odot elephantgrass during rainy season (A) and dry season (B) in 2018. High density (O), medium density (Δ) and low density (●). Arrows indicate the date of defoliating at 10 cm above ground surface. Figures with different letters denote significant difference at 5% level.

Plant spacing densities was also significantly affected ( $P>0.05$ ) in dwarf-odot elephantgrass herbage production while percentage of leaf blade (PLB) had no significant effect. As with MTW and TDMW, HDMY generally increases from the first defoliation to the fifth defoliation, except in the third defoliation where there is a slight decrease in herbage yield. The HDMY obtained highest herbage production occurs in the fourth defoliation in each plant spacing density. The annual HDMY was the highest in high density follow by middle density and the lowest in low density.

In the previous results, it was seen that TN increased linearly with increasing plant spacing densities from 4-16 plants / m<sup>2</sup> and from first defoliation to fifth defoliation. These correlations suggest that as planting density increases, HDMY increases with the concomitant increase in TN, and that as cutting frequency increases. These

correlations should be considered in aspect to herbage quality or fertilizer treatment (Ishii et al, 1996). This was similar to the results of previous studies reported by Mukhtar, M. (2007) that in dwarf varieties, both cv. dwarf-late and cv. dwarf-early, did not show a significant effect on the increase in PLB despite significant influence from the mean tiller weight (MTW). Woodard and Prine (1991) also reported that the dwarf variety of Mott was less sensitive to the increased cutting frequency. This characteristic, insensitive to the cutting frequency may be due to the earlier recovery of ground cover by the leafage after harvest (Gardner et al, 1985) because of larger TN in dwarf-odot elephantgrass.

**Experiment two**

The effect of inorganic fertilizer on changes in growth characters of growth and biomass production of dwarf-odot elephantgrass was shown in Table 3.

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Table 3. The Average of growth characters (plant height and tiller number) and biomass productions (herbage dry matter yields and percentage leaf blade) of dwarf-odot elephantgrass as affected by conducting levels of inorganic fertilizer.

Variables	Level of N-P-K single and NPK compound fertilizers							
	T0	T1	T2	T3	T4	T5	T6	T7
Plant Height (cm)	165 <sup>d</sup>	212 <sup>b</sup>	224 <sup>ab</sup>	237 <sup>a</sup>	189 <sup>c</sup>	191 <sup>c</sup>	209 <sup>b</sup>	211 <sup>b</sup>
Tiller Number (No./plant)	60 <sup>c</sup>	66 <sup>b</sup>	71 <sup>a</sup>	66 <sup>b</sup>	61 <sup>c</sup>	62 <sup>c</sup>	64 <sup>bc</sup>	71 <sup>a</sup>
Herbage dry matter yields (kg/m <sup>2</sup> )	121 <sup>d</sup>	204 <sup>b</sup>	225 <sup>a</sup>	234 <sup>a</sup>	141 <sup>c</sup>	152 <sup>c</sup>	165 <sup>c</sup>	200 <sup>b</sup>
Percentage Leaf Blade (%)	48 <sup>d</sup>	51 <sup>c</sup>	54 <sup>b</sup>	58 <sup>a</sup>	49 <sup>cd</sup>	51 <sup>c</sup>	50 <sup>c</sup>	51 <sup>c</sup>

Description: T0 - T7 are the levels of single and compound fertilizer as shown in Table 1. Values with different letters denote significant difference at 1% level.

The level of inorganic fertilizer, both single and compound fertilizer, showed a very significantly effect ( $P > 0.01$ ) on the character of growth and biomass production of dwarf-odot elephantgrass. Hakim (2005) reported in the previous study that the used of a single N-P-K fertilizer at a dose of 100 kg/ha urea, 50 kg/ha TSP, 10 tons of manure significantly increased the growth of normal variety of elephantgrass. The effect of giving this level of inorganic fertilizer greatly accelerates the process of absorption of NPK in the soil in the short term compared to the provision of new organic fertilizer which can show absorption effects at 6 - 8 months.

In this study, all treatments showed highest growth and biomass production results compared to the treatment without fertilization (control), both in the single N-P-K and the NPK compound fertilizer. These results indicated that the dwarf odot of elephantgrass fertilized will provide a good growth effect because plant nutrients are available from the elements nitrogen, phosphorus and potassium. Seseray et al (2013) state that the use of a single N-P-K fertilizer at a dose of 200 kg/ha urea, 100 kg/ha TSP, 100 kg/ha KCL provides better plant height growth because it speeds up the process of fertilizer absorption in the soil.

Comparing the effects of the two types of inorganic fertilizers, a single N-P-K treatment showed better results compared to NPK compound treatments. Both single NPK and compound NPK showed an increase in plant height (PH) and tiller number (TN) growth and biomass production that were herbage dry matter yields (HDMY) and percentage of leaf blades (PLB) as the dosage or level of each type increased. the fertilizer. Both single N-P-K and compound NPK obtained peak production at the highest dose at T3 (600 N, 200 P and 200 K) and T7 (600 NPK) for single fertilizer and compound fertilizer, respectively.

### DISCUSSION

Large growth in TN has a positive influence on large production of TDMW and MTW as well as herbage dry matter yield (HDMY). The average TDMW and MTW production showed larger in high density, followed by medium density and lowest at low density both in the rainy and dry seasons, respectively. TDMW and MTW increased from the first defoliation to the second defoliation but decreased in the third defoliation in the rainy season, even though during that production month, there was a high rainfall. TDMW and MTW also experienced growth and production decreased from defoliation fourth to fifth defoliation at all spacing. However, due to the extended time from the third defoliation to the fourth defoliation, TDMW and MTW increased dramatically, then showed decreased in the fifth defoliation, this was due to the reduction of leaf and stem volume caused by the dry season (Mukhtar M, 2006).

As with TN, TDMW and MTW experienced peak growth and production at the fourth defoliation, both in the rainy season and dry season. The average growth of TDMW and MTW looks bigger in the rainy season than the dry season. Defoliation in the dry season was conducted twice because if conducted three times defoliation as in the rainy season it will disrupt the growth process (Rusland et al, 2006) because defoliation is done at the beginning of November 2018, while that month is the peak of the dry season, so the sixth defoliation is not done again because the stubbles was smaller (approaching the defoliation height of 15 cm), and it is very risky to do defoliation because it will reduce food reserves for further regrowth. If food reserves are less, then it will greatly affect growth for the next one year. Thus, the growth character of dwarf-odot elephantgrass can be defoliated every month for 4 consecutive months then it must be extended 2-3 months in the rainy season and only twice in the dry season in the first year of planting. In the second year, defoliation can be carried out 4 times in the rainy season and three times in the dry season, this is due to the increasing number of TN, which is certainly very available food reserves on the stem after defoliation. From the previous experiment, dwarf-odot is assessed to be more sensitive to the decrease in air temperature than other varieties in pennisetum species like normal varieties. A great decline of HDMY at the third cutting may be attributed to the non-heading characteristics of dwarf-odot. Since elongated stem functions as a storage organ, dwarf-odot may lack in the sink capacity under a low air temperature at the fifth cutting in dry season (Mukhtar, 2006).

PH, TN, HDMY and PLB increased with the increase in levels of fertilizer dosage in both single and compound fertilizers. Increasing PH and TN greatly affected to biomass production, that were HDMY and PLB which showed high growth and production. PH, TN, HDMY and PLB were generally showed to be higher in single fertilizer (T1 - T3) compared to controls (T1) or compound fertilizer (T4 - T7). This is due to the high element of Nitrogen (N) in a single fertilizer. If more N elements are available than other elements, more protein is produced, the leaves grow larger so photosynthesis increases. The higher level of N the faster the process of synthesis of carbohydrates into proteins and protoplasm, the smaller the ratio available for cell walls, especially N-free carbohydrates such as calcium, cellulose, and lignin with low N. The plant growth is stimulated through the provision of fertilizers with its N-element content (Hendarto, 2011).

The achievement of TN and PLB did not show the consistency of achievement in HDMY. Achievement of HDMY per one TN dwarf-odot elephantgrass is 50%, 60% and 69% for treatment without fertilizer (control), compound fertilizer and single fertilizer, respectively.

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Likewise, the achievement of PLB in each one of the dwarf-odot elephantgrass plants was an average of 60%, 69% and 75% for treatment without fertilizer (control), compound fertilizer and single fertilizer, respectively.

The more the amount of fertilizer used, the more tiller number of dwarf-odot elephantgrass indicates that fertilization factor is very necessary for plant growth because the required nutrient content is not fully available in the soil. Percentage of growth was highly dependent on the availability of nutrients in the soil specifically nitrogen (Ella, 2002). The higher the level of nutrient solubility, the more nutrients are used by plants to produce so as to increase the production of dry matter. This might have something to do with the competency factor between plants and the number of shoots to obtain nutrients contained in the soil. Competence to get these nutrients will affect the size and appearance of plants per individual and tiller number and stems become small. The content of dry matter is highly dependent on forage species, the age of plants (young or old) the older the plants, the higher the dry matter content but the decreased nutrient content (Ishii et al 1998; Sunusi et al, 1997).

### CONCLUSION

Plant spacing density from high density (16 plants/m<sup>2</sup>) to low density (4 plants/m<sup>2</sup>) has a significantly effected ( $P > 0.05$ ) on the growth characters that were tiller number (TN), mean tiller dry matter weight (MTW) and total dry matter weight (TDMW) and biomass production that were herbage dry matter yields (HDMY) and percentage leaf blade (PLB) of dwarf-odot elephantgrass both at the rainy and dry seasons. TN, TDMW, MTW, HDMY and PLB increased linearly after planting in each defoliation, from the first defoliation to third defoliation during the rainy season, and from the fourth to fifth defoliation in the dry season.

With the rainy and dry conditions in Gorontalo, the implementation of defoliation every month can only be conducted 3 – 4 times in the rainy season and twice in the dry season. Towards the end of the rainy season or the beginning of the dry month, defoliation must be extended to 2 months. The level of inorganic fertilizer, both single and compound fertilizer, showed a very significant effect ( $P > 0.01$ ) on the character of growth and production of dwarf-odot elephantgrass biomass. Single NPK level yields higher than compound NPK level on plant height growth, tiller number, fresh material production and leaf percentage.

PH, TN, HDMY and PLB increased with increasing in levels of fertilizer dosage in both single and compound fertilizers. Increasing PH and TN greatly affected biomass production, that are HDMY and PLB which show high growth and production. Achievement of HDMY per one TN dwarf-odot elephantgrass is 50%, 60% and 69% for treatment without fertilizer (control), compound fertilizer and single fertilizer, respectively. Likewise, the achievement of PLB in each one of the dwarf-odot elephantgrass plants was an average of 60%, 69% and 75% for treatment without fertilizer (control), compound fertilizer and single fertilizer, respectively.

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