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Volume 9, Issue 2, February 2018 Edition

Publication for Volume 9, Issue 2, February 2018.

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Osteogenic differentiation of Wharton's Jelly -derived mesenchymal stem cells[\[Full-Text \]](#)

Asmaa Tharwat Radwan, Ziyad M Tawhid, Ahmed Darwish, Farha El-Chennawi

Induced osteogenesis of mesenchymal stem cells (MSCs) may provide an important tool for bone injuries treatment. Human umbilical cord is routinely discarded as clinical waste and may be used as noncontroversial MSCs sources. It still remains to be verified which source of MSCs is the most suitable for bone regeneration. The aim of this research was to investigate the osteogenic potential of MSCs derived from Wharton's jelly of the human umbilical cord. Osteogenic differentiation of MSCs was detected and quantified by Alizarin Red S (ARS) staining for calcium deposition.

IoT Based Home Automation System for Infants and People with Special Needs[\[Full-Text \]](#)

Suresh Balakrishnan, Ramaprasad Poojary

Parenting is not an easy task. Good parenting requires the parent to quickly respond to the needs of their child. Constant monitoring of the child also becomes a necessity, especially up to an age of 18 months.

Case of Young Patient with Portal Vein Thrombosis: complicated by Venous Bowel Ischemia[\[Full-Text \]](#)

Ali salawi, Mohammed Haroon, Abdullah Majrashi, Saud Khayrat, Mohammed Salawi

A case of 26 years old Sudanese male patient, complain of sever epigastric pain associated with post prandial vomiting started before 1 week ,investigation done and confirm the diagnosis of portal vein thrombosis, and start management but unfortunately later on patient condition deteriorated and develop venous bowel ischemia that need surgical intervention.

Damping and Positioning Effects due to an Offshore Structure for Fluid Flow in Application to a Sink (Wave Breaker)[\[Full-Text \]](#)

Onesmus M. Mutua, Elisha A. Ogada, David O. Manyanga, Lawrence O. Onyango

Water waves are frequent phenomenon, some of which are high impact events (especially tsunamis) that cause a number of fatalities. Some of the dangers posed by waves include: coastal flooding, coastal erosion, onshore structures and beach destructions. Waves cause major damages and significant economic loss to a large section of coastlines. For instance, surface waves have caused serious damage to some sections of Fort Jesus which lies adjacent to the Indian Ocean.

Investigation of convertation of carbon monoxide to carbon dioxide on the surface of mixed nano-catalyst in initial trimmed of modification of radiation[\[Full-Text \]](#)

Hasanov S.H.,Mustafayev I.I., ÐœÐ°hmdov H.M.

In this article, the conversion of CO to CO₂ was researched in the A₂O₃+CuO catalyst on the closed stream reactor which was refined initially in the radiation.Kinetic dependance on conversion was analyzed in predefined surface temperature and in partial pressure of carbon-monooxide. During the surveythe surface temperature of catalyst increased steadily, while the conversion speed rises accordingly. Thus, the share of conversion increases from 43% to 60% in various concentrations of carbon-monooxide in the temperature range on T= 80-250oC.

[November 2017 Edition](#)[December 2017 Edition](#)[January 2016 Edition](#)[February 2016 Edition](#)[March 2016 Edition](#)[April 2016 Edition](#)[May 2016 Edition](#)[June 2016 Edition](#)[July 2016 Edition](#)[August 2016 Edition](#)[September 2016 Edition](#)[October 2016 Edition](#)[November 2016 Edition](#)[December 2016 Edition](#)

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Case report: Atypical presentation of Celiac Disease [\[Full-Text \]](#)

Roba Aboabat, Abdullah Alfaris

Celiac disease is frequently associated with other auto-immune disorders but has never been reported in association with alopecia areata in adults. We report the association of celiac disease and alopecia areata in a 44 years old female. Biopsy revealed mild villous atrophy, crypt hyperplasia and marked intraepithelial lymphocytosis, serum Endomysial antibody was markedly elevated. Finally, she was diagnosed as having CD, and a gluten-free diet was advised. At a 11 months follow-up, revealed complete hair growth and serological marker returned to normal range.

AN ASSESSMENT OF THERMAL PERFORMANCE OF OFFICE UNITS BUILT WITH SHIPPING CONTAINERS AROUND LAGOS [\[Full-Text \]](#)

ADENAIKE, Folahan Anthony

Portable cabins have steadily gained acceptability as a viable solution towards temporary housing around Nigeria. In recent times, more permanent structures are being assembled using 20feet and 40feet shipping containers as modular units. There is absence of documented habitability assessments of these units.

Using Mass Media and ICT for Agriculture Extension: A Case Study [\[Full-Text \]](#)

Aprajita Srivastava

This paper examines the role of mass media and ICT in agriculture knowledge dissemination to the farmers in their own language to educate them in farm technology, animal husbandry, climatology, agronomy, plant disease management, post-harvest management, warning for flood/cyclone etc.

The Influence of Deployment Parameters on 2D Wireless Sensor Network by Using a Centroidal Voronoi Tessellation Based Algorithm [\[Full-Text \]](#)

Athanasios Iliodromitis, Evangelia Lambrou

The optimum spread of a Wireless Sensor Networks (WSNs) is the main requirement for all the modern applications that use WSNs for the monitoring and the observation of natural environment. The early warning systems e.g. for fire or deformation detection are the main fields that uses this technology as well as the monitoring of other environmental parameters as temperature, humidity, pollution and radiation. The spatial distribution of the sensors of a WSN must follow specific criteria. The equilateral triangle grid leads to the maximum coverage with the minimum number of sensors. Nevertheless, in most large-scale outdoor applications, achieving the ideal deployment geometry is hard or even impossible.

Healthcare Service Utilization and Burden of Communicable Disease among Internally Displaced Population in Lahore [\[Full-Text \]](#)

Murtaza Haider, Naveed Yazdani, Talha Zubair, Noor Ellahi, Farah Zafar, Talha Tahir, Fatima Haq

The study conducted at the private health facility of the Union Council (Khan Colony), in Lahore. Objectives of the study are as follows; to determine the burden of communicable diseases (TB, Hepatitis B, Hepatitis C and HIV) among IDPs in Lahore. To determine association of TB, Hepatitis B, Hepatitis C and HIV with socio-demographic variables and to assess the health seeking behavior of internally displaced persons for health care service utilization.

Pages [1]

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2018 Publications
[January 2018 Edition](#)
[February 2018 Edition](#)
2017 Publications

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[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#)

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[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#)

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[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#)

2014 Publications

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#)

2013 Publications

[[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#)]

2012 Publications

[[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#)]

2011 Publications

[[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#)]

2010 Publications

[[1](#) [2](#) [3](#)]

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