
Accepted Abstracts

Nursing 2022



28th Global Experts Meeting on
Neonatal Nursing and Maternal Healthcare

May 16, 2022 | Webinar

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The implications of face mask wearing for babies and families during the COVID-19 pandemic: A discussion paper

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COVID-19 has changed the way that newborn babies are cared for within the neonatal setting due to the introduction of social distancing and wearing of face masks to limit the spread of the infection. Potential implications exist related to the normal development of attachment, face processing and recognition by the infant and connections with others. This paper discusses the importance of face-to-face interactions in relation to these within the context of developmental theory. Mask wearing can also potentially impact relational communication, requiring us to change our current ways of working. The possible implications of decreasing face-to-face interactions

for the infant and relational communication are discussed, along with key recommendations for both parents and health professionals to mitigate the potential long-term effects on development related to human connection and attachment.

Recent Publications

1. Green J, Petty J, Staff L, Bromley P, Orr F, et al., 'Developing nursing knowledge on COVID-19 in children and adolescents: An integrative review', *Pediatric Nursing*, 47, (4) pp. 163-174. ISSN 0097-9805 (2021).

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Role of miRNA in regulating Matrix Metalloproteases for Prognosis in Gynecological Cancer: An Insight into Therapeutic Avenue

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Small non-coding RNA molecules, such as microRNAs (miRNAs), can influence gene expression by acting as cellular mediators required for growth, differentiation, proliferation, apoptosis, and metabolism. MiRNA dysregulation is common in many human cancers, acting both tumor-promoting and tumor-suppressing, and their aberrant expression is connected to uncontrolled cellular proliferation, metastasis, and DNA damage as well as cell cycle disruption. Matrix Metalloproteases (MMPs) have critical roles in both normal growth and tissue remodeling, as well as in cancer formation and metastasis. We address an integrated interactive research including multiple MMPs and miRNAs, as well as how these communications influence malignant development, migration, and metastasis. The current study focuses on significant miRNAs that may have an influence on gynecological cancer progression either directly or indirectly through modulating MMPs. In addition, we approach how miRNA-mediated MMP modulation and their downstream signaling pathways might be used to build a viable therapy for gynecological malignancies. Upregulation of MMP-7, -9, -3 and -13 has been well correlated with endometriosis development and progression. Presently,

my lab is focused on investigating the role of miR-34a in regulating endometriosis progression via MMP-2 modulation.

Recent Publications

1. Anuradha Pandit, Pramathes Das Mahapatra, Priyanka Saha, Amit Kumar Srivastava, Snehasikta Swarnakar, Interleukin-1 β activated c-FOS transcription factor binds preferentially to a specific allele of the matrix metalloproteinase-13 promoter and increases susceptibility to endometriosis. *J Cell Physiol.* 2022 Jul;237(7):3095-3108. doi: 10.1002/jcp.30773. Epub 2022 May 27
2. Anirban Manna, Tapasi Roy, Tanusree Das, Santu Bandyopadhyay, Snehasikta Swarnakar, POTENCY OF PHYTOCOMPOUNDS AS HYDROXYCHAVICOL AND PLUMBAGIN IN COMBINATION TO FIGHT AGAINST LEUKEMIA VIA ACTIVATION OF MAPK-MEDIATED APOPTOTIC PATHWAY: AN IN VITRO APPROACH. HCH and PLB in combination to combat leukemia. *Int. J. Pharm. Sci. Drug Res.* <https://doi.org/10.25004/IJPSDR.2022.140116>.

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