"RESUME"

Dr.BiswadeepChaudhuri

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Kolkata700075,WestBengal,India

Current Position: Assistant Professor
School of Life Science & Biotechnology,
Adamas University Kolkata

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DateofBirth: 08-11-1985 **Category:** General **Sex:** Male **Religion: Hinduism**

EducationalQualifications:

Degree	Subject/Research Area	%marks/grade	Year	College& University
Ph.D.	Biomedical Engineering	84	2016	National Institute of Technology (**NIT**)-Rourkela
M.S.	Industrial Biotechnology	60	2009	Newcastle University,UK
B.Tech.	Biotechnology	74	2008	WestBengal Universityof Technology, Kolkata

Area of Interest:

- Tissue Engineering & Animal cell culture
- Wound Healing
- Stem Cells & Regenerative Therapy
- Biomaterials(Scaffolds/Implants)
- Biopolymer Engineering (Electrospinning)
- Nano-Biotechnology

Research Experience: 10 Years +
Teaching Experience: 7 Years+ (PostPh.D.)

Professional Skills:

- Tissue Engineering, Regenerative Medicine, Wound Healing
- Isolation,characterizationandmaintenanceofHumanUmbilicalCordBlood derived Mesenchymal Stem Cells
- Stem Cells proliferation as well as lineage specific differentiation
- *In-vitro* Stem Cells viability and proliferation assay (usingMTT,WST-8)
- Electrospun fibrous scaffolds preparation using biocompatible polymer composites
- CharacterizationsofpolymercompositescaffoldsusingXRD,FTIR,SEMetc.
- Microscopicanalysis:CompatiblewithConfocal(Immunostaining)&PhaseContrast microscope
- SEM analysis, Surface modification, Cell compatibility.
- Cell signaling pathway(IGF-1)analysis using Western Blotting,

Employment record:

Date		Organization	Position	Functional Activities
From	To			
Oct 2023	Present	Adamas University Kolkata	Assistant Professor	Teaching & Research
May 2018	Sep 2023	University of Engineering& Management (IEM/UEM), Kolkata	Associate Professor	Teaching & Research
July 2017	April 2018	CSIR-Central Glass and Ceramic Research Institute , (CGCRI) Kolkata	CSIR-Nehru Post-Doctoral Fellow (*CSIR:Govt. of India Fellowship*)	Development of Novel Biomaterials for Wound healing and Tissue Engineering applications for clinicalapplications

Oct 2016	June 2017	Saha Institute of Nuclear Physics, (SINP), Kolkata	Post-Doctoral Fellow (*DAE: Govt. of India Fellowship*)	Research Work, Laboratory setup, Helping to PhD Students in research.
Dec 2010	Mar 2016	National Institute of Technology (NIT-Rourkela)	JRF&SRF (*DBT-ProjectGovt.ofIndiaFellowship*)	Paper write-up, publication,research, occasional teaching(UG).
Jul 2010	Nov 2010	Chembiotek, Kolkata	Laboratory Analyst	Lab work related to NMR,sample preparation, characterizations, datasheet Preparation etc.

PUBLICATIONS

(AllInternational)

[1] **Biswadeep Chaudhuri***, Shrabani Ghosh, Bholanath Mondal, Debabrata Bhadra. Preparation and characterization of carbon fibre powder (CFP)-polyvinyl alcohol (PVA) compositefilmsshowingpercolationthresholdbehaviour.MaterialsScienceandEngineering: B.275,115500,2022,(**IF3.56**/**SCIindexed**) ***CorrespondingAuthor**

[2] **Biswadeep Chaudhuri***, B. K. Chaudhuri. A Physicochemical approach towardsunderstandingthemechanism ofstemcell therapy. Int. JournalofScientific Research and Reviews (**UGC Aproved**). 7(4), 1413-1421.(**SIJF IF6.946** & ISI IF 1.536).

***CorrespondingAuthor**

[3] **BiswadeepChaudhuri***, B. Mondal, D. Bhadra, S. C. Sarkar. Biocompatibility of poly(lactic-co-glycolic acid) - graphene oxide composite using cryopreserved human stem cells. Chem. Sci. Rev. and Letts. 6(21), 88-93. 2017. (**IF 4.86**, **SCI expanded**).

***CorrespondingAuthor**.

[4] **Biswadeep Chaudhuri***, B. Mondal , S.K. Roy, S.C. Sarkar. A novel biocompatible conducting polyvinyl alcohol (PVA)-polyvinylpyrrolidone (PVP)-hydroxyapatite (HAP) composite scaffolds for probable biological application. ***Colloids and Surfaces B: Biointerfaces***.(**ELSEVIER**). 143, 71–80, 2016. (**IF 5.30**/ **SCI indexed**).

***CorrespondingAuthor**.

[5] **BiswadeepChaudhuri***,B.Mondal,S. Kumar,S.C. Sarkar. Myoblastdifferentiationand proteinexpressionin electrospungrapheneoxide(GO)-poly(ε-caprolactone,PCL)composite meshes.***MaterialsLetters*****(ELSEVIER)**.182,194–197.2016(**IF3.55**/**SCIindexed**).

CorrespondingAuthor.

[6] **BiswadeepChaudhuri**, D. Bhadra, L. Moroni, K. Pramanik. Myoblast differentiation of humanMesenchymalStemCellsongrapheneoxideandelectrospungrapheneoxide–polymer compositefibrousmeshes:importanceofgrapheneoxideconductivityanddielectricconstant on their biocompatibility. ***Biofabrication*** (**IOP SCIENCE**). 1- 13; 7; 015009. 2015.

(**IF10.01**/**SCIindexed**).

[7] **Biswadeep Chaudhuri**, D. Bhadra, B. Mondal, K. Pramanik. Biocompatibility of electrospun graphene oxide–poly(ε-caprolactone) fibrous scaffolds with human cord blood Mesenchymal Stem Cellsderived skeletal myoblast. ***Materials Letters*** (**ELSEVIER**).109-112, 126, 2014.(**IF 3.55**/ **SCI indexed**).

[8] **BiswadeepChaudhuri**, BMondal, D.K. Modak, K. Pramanik, B.K. Chaudhuri. Preparation and characterization of nanocrystalline hydroxyapatite from egg shell and K_2HPO_4solution. ***Materials Letters*** (**ELSEVIER**). 148-150, 97. 2013. (**IF 3.55**/ **SCI indexed**).

[9] **Biswadeep Chaudhuri**, D. Bhadra, S. Dash, G. Sarkar, K. Pramanik, B.K. Chaudhuri. Hydroxyapatite and Hydroxyapatite-Chitosan composite from crab shell. ***Journal of BiomaterialsandTissueEngineering*****(AmericanSci.Pub.)**.3,653-657,2013.(**IF1.08**/**SCI indexed**).

[10] **BiswadeepChaudhuri**,K.Pramanik.KeyaspectsoftheMesenchymalStemCells(MSCs) intissueengineeringforinvitroskeletalmuscleregeneration. ***Biotechnology andMolecular Biology Review.*** 5-15, 7. 2012. (**IF 0.45/ISI indexed**).

[11] **BiswadeepChaudhuri**,K.Pramanik.UseofUmbilicalCordBloodforthenextgeneration MyocardialTissueRepair.***GlobalJournalofBiotechnologyandBiochemistry***.6(4).162-170, 2011. (**IF 1.211**).

[12] Md. J. Uddin, **BiswadeepChaudhuri**, K. Pramanik, T. R. Middya, B.K. Chaudhuri. Black tea leaf extract derived Ag nanoparticle-PVA composite film: Structural and dielectric properties. MaterialsScienceandEngineering:B.(ELSEVIER)177,1741-47,2012.**(IF3.56/SCIindexed).**

[13] A. Bissoyi, D. Mahajan, **BiswadeepChaudhuri**. Design of Multifunctional H3 Receptor Inverse Agonists with Ache Inhibitor Activity for Treatment of Alzeihmer's Disease. ***Global Journal of Biotechnology & Biochemistry***. 7 (4): 100-109, 2012**.** (**IF 1.211**).

[14] A.Bissoyi,C.Mahapatra,**BiswadeepChaudhuri**,D.Mahajan.InSilicoPredictionofNovel Drug Molecule for Migraine Using Blind Docking. ***Global Journal of Biotechnology & Biochemistry.*** 8 (1): 25-32, 2013. (**IF 1.211**).

[15] **BiswadeepChaudhuri**, K Pramanik. Isolation of Mononuclear Stem Cells from Human Umbilical Cord Blood and their scaffolds interaction. ***Advanced Science, Engineering and Medicine*** (American Scientific Publisher). 5, 427-430, 2013. (**IF 0.862**).

[16] **BiswadeepChaudhuri**,ChaudhuriB,ChaudhuriBK.Diseasedcell-dilutedhomeopathic medicine interaction mechanism leading to the remediation of the disease,Int. J. Homeopatic ciences.2019;3(3):82-87.

Patent

1. Title:ANovelCompositionofMultifunctional(antimicrobial,digestive,naturalfoodlife enhancer) Low Cost Herbal Food Additive.File No: 201931044618 (Published&Aproved:07/05/2021).Onlineavailable.Inventer: Biswadeep Chaudhuri.

2. Title: A Novel Composition of Multipurpose (Hair and Skin) Multifunctional (antimicrobial,anti-inflammatory,antibacterial,natural)LowcostandeffectiveHerbal Rejuvenator. (Applied 2023). Inventer: Biswadeep Chaudhuri.

Conference Papers:(Total 04)

[1] **B. Chaudhuri**, L. Moroni and K. Pramanik., Myoblast differentiation of human cord blood mesenchymalstemcellsonthingrapheneoxidesheetsandelectrospungrapheneoxide-PLGA composite scaffolds : Proc. Int. Symposium on Polymer Science and Technology, Kolkata (Jan.23-26) P-522, PB10,Page 523, PB11 (2015).

[2] **B. Chaudhuri**, G. Sardar, Md. Masud, J Uddin, B. K. Chaudhuri and K. Pramanik. Observation of enhanced conductivity and dielectric constant in polyvinyl alcohol/polyvinylpyrrolidone blend-hydroxyapatite and graphene oxide composite; Biocompatibility study using human cord blood stem cells. Proc. Int. Symposium on Polymer Science and Technology, Kolkata (Jan.23-26) P-522, PB10 (2015).

[3] **B. Chaudhuri**, L. Moroni, K. Pramanik. Myoblast differentiation of human cord blood mesenchymalstemcellsonthingrapheneoxidesheetsandelectrospungrapheneoxide-PLGA composite scaffolds; As above, pp-523

[4] **B. Chaudhuri**,K.Pramanik.Umbilical CordBlood derivedStem Cellsand its applications forBiomedicalapplications.InternationalConferenceofTissueEngineeringandRegenerative Medicine (ICTERM), Dept. of Biotech.& Med. Eng. NIT Rourkela, 2011.

BookChapter/BookPublication

S.No.	NameofBook/ Bookchapter	Year	TitleofBook	Authors	Link
1	Development of 2D biocompatible compositematrixfor tissue engineering applications with antifungalproperties	2019	Biotechnology and BiologicalSciences	Sayak Roy Chowdhury, Debasmita Deb, Soumyajit Sen, **Biswadeep Chaudhuri*** (**corresponding author**)*	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003001614-6/development-2d-biocompatible-composite-matrix-tissue-engineering-applications-antifungal-properties-sayak-roy-chowdhury-debasmita-deb-soumyajit-sen-biswadeep-chaudhuri
2	Myoblast Differentiation of UmbilicalCordBlood DerivedStemCellson Biocompatible Composites Scaffold Meshes	2017	Umbilical Cord Blood Banking for ClinicalApplication and Regenerative Medicine	**Biswadeep Chaudhuri** **(single author)**	https://www.intechopen.com/chapters/52225
3	Biopolymers-graphene oxide nanoplatelets composites with enhancedconductivity and biocompatibility suitable for tissue engineering applications	2018	Fullerens, Graphenes and Nanotubes : A Pharmaceutical Approach	**Biswadeep Chaudhuri** **(single author)**	https://www.sciencedirect.com/science/article/pii/B9780128136911000129

MembershipofProfessionalbodies:

- Indian Science Congress
- Indian Association for the Cultivation of Science (IACS, Kolkata)

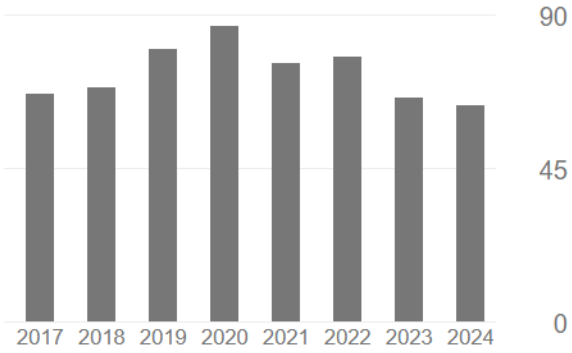
Awards:

- **Best Research Scholar Award (RSW)2015**,Dept.of Biotechnology & Medical Engineering, National Institute ofTechnology, Rourkela, India
- **Best Poster Presentation Award**, **2013**, International Conference on Tissue Engineering & Regenerative Medicine; Dept. of Biotechnology & Medical Engineering, National Institute of Technology, Rourkela, India.

Google Scholar:

Link: https://scholar.google.co.in/citations?user=g1d8q9YAAAAJ&hl=en

	All	Since 2019
Citations	719	451
h-index	11	11
i10-index	13	11



Post Doctoral Fellowship/Awards(Govt. of India Funded):

- **National Post-Doctoral Fellowship(N-PDF)Award2017**
- **CSIR-NEHRU SCIENCE Post-Doctoral Award2017(Accepted)**

Declaration:-

I hereby declare that all the information furnished above is true to the best of my knowledge.

Dr. Biswadeep Chaudhuri
Place: Kolkata
Date:12/12/2024