Muddukrishna.C

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Research Scientist–Invitrobiology (Cell Biology and Virology) having experience in developing screening techniques and cell based assays for the development of New Chemical Entities (NCEs)

Work Profile

- Development of Stable cell lines Expressing **GPCRs, ion channels (Ca^{+2} & K^{+})** and other Non-GPCR receptors.
- Establishment of cell based functional assays using **luciferase reporter gene** for screening different **GPCRs** coupled to **Gq**, **Gs** and **G_I** and **Nuclear receptors.**
- Cell based functional assays for screening NCE's for different Receptors.
- **Baculovirus** mediated Expression of Recombinant proteins in insect cell system.
- Bi-directional **Caco2 permeability Assay** (Efflux, A-B and B-A)
- **P-gp Substrate and P-gp Inhibition Assay using Caco2 Cells.**
- Transporter Substrate Identification studies **(BCRP**)
- Cell based **Cytochrome P450 Induction and Inhibition** studies.
- Working knowledge of basic DMPK techniques.
- Cell based **cytotoxicity** and **Proliferation** (**LDH, MTT and Trypan blue dye exclusion**) assays.
- Working experience in biosafety level 3 and with virus such as HIV-1 and its molecular clones.
- Working knowledge of **P24 assay** and **Integrase Assay** for screening and Determination of biological activity of anti Retroviral NCEs.
- Determination of Tissue culture infective dose (TCID50).
- Drug combination and Drug resistance studies.
- As a Microbiologist worked on Isolation of micro organisms from the effluents and estimation of COD and BOD levels in the effluents.
- Documentation and Record keeping.
- Working on several client based projects as and when required.

Research / Professional experience

Sr. Scientist II (2021 to till date)
Discovery Biology**, Hetero Research Foundation,** Hyderabad.

Deputy Manager (2018-2021)
Discovery Biology**, Hetero Research Foundation,** Hyderabad.

Scientist (2014- 2018)
Discovery Biology**, Hetero Research Foundation,** Hyderabad.

Associate Scientist (2011- 2013)
In Vitro Biology, Suven Life Sciences Limited, Hyderabad

Sr. Research Associate (2010-2011)

Research Associate (2009-2010)

Research Assistant (2006-2008)
In Vitro Biology, Suven Life Sciences Limited, Hyderabad

Microbiologist (2005-2006) –Jeedimetla effluent treatment plant, Hyderabad.

Academic Profile:

M.Sc., in Microbiology from Bharathidasan University, Tamilnadu from 2003-2005.

B.Sc., (Microbiology, Chemistry, Botany) from SV University, Andhrapradesh from 2000-2003

Project handled

"Mass multiplications of Probiotics using *Lacto bacillus sporogenes*" KN Biosciences, Hyderabad.

Poster Presentation

- Poster selected for presentation at "***SOCIETY FOR NEUROSCIENCE***", **2008** meet held at USA Poster title: **Screening of GPCRs using cell based Reporter gene assay.**

Publications:

1. Ramakrishna Nirogi, Renny Abraham,**Muddukrishna Chillakur**,Ramkumar Subramanian,Anil sinde.SUVN-D1208045, a potent selective 5-HT4 receptor partial agonist for the treatment of Alzheimer's disease. July 2013 Alzheimer's and Dementia 9(4):P817 DOI 10.1016/j.jalz.2013.05.1752.

2. Ramakrishna Nirogi, Gopinadh Bhyrapuneni, Vishwottam Kandikere, Ramanatha Saralaya,Ramkumar Subramanian, **Muddukrishna Chillakur**, Anil hinde,Suven Life Sciences, Ltd. Hyderabad, India. SUVN-D1108121: A potent and selective 5-HT4 receptor partial agonist, potential drug for the treatment of Alzheimer's disease. July 2012 Alzheimer's & dementia: the journal of the Alzheimer's Association 8(4):P712-P713 DOI 10.1016/j.jalz.2012.05.1926.

3. Nirogi, Vishwottam Kandikere, Raghava Chowdary Palacharla,, Ramkumar Subramanian, **Muddukrishna Chillakur**, Bhyrapuneni, Mohammed, Koteshwara Mudigonda, Prashanth Komarneni. Characterization of SUVN-D1104010: A potent, selective and orally active 5-HT4 receptor partial agonist.

4. Ishtiyaque Ahmad, **Muddukrishna Chillakur**, Pradeep Jayarajan, Renny Abraham, Vishwottam Kandikere, Gopinadh Bhyrapuneni, Nageshwara R. Muddana, Mohammed A. Rasheed, Ramakrishna Nirogi, Suven Life Sciences Limited. SUVN-91052: A potent and selective 5HT 4 agonist for the treatment of Alzheimer's disease July 2010 Alzheimer's and Dementia 6(4) DOI 10.1016/j.jalz.2010.05.1833.

Patent:

United States Patent Ahmad et al.

Patent N0: US 8,551,718 B2, Date of Patent: Oct. 8, 2013

FUNCTIONAL ASSAY FOR 5-HT2A, HISTAMINE H1 OR ADRENERGIC ALPHA 1B RECEPTORS

Inventors: Ishtiyaque Ahmad, Hyderabad (IN); Reddy VenkatMekala, Hyderabad (IN); Reddy **MuddukrishnaChillakur**, Hyderabad (IN); RamkumarSubramaniam, Hyderabad (IN); JyothsnaRavula, Hyderabad (IN); Sriramachandra Murthy Patnala, Hyderabad (IN); Ramakrishna Nirogi, Hyderabad (IN); VenkateswarluJasti, Hyderabad (IN) (73) Assignee: Suven.

- Analyzing Software like Graph pad Prism.

References

1. Dr.T.Sravan Kumar Reddy,
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Hetero Drugs, Hyderabad,
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2. Dr.Santosh vishwakarma,
Assistant Director,
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Email: Santoshlmcp@gmail.com,
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3. Dr.Ishtiyaque Ahmad,
Associate Vice President-Biology,
Jubilant Biosys, Bangalore, INDIA,
Email: iahmadazmi@yahoo.com,
Phone: 07349259315.