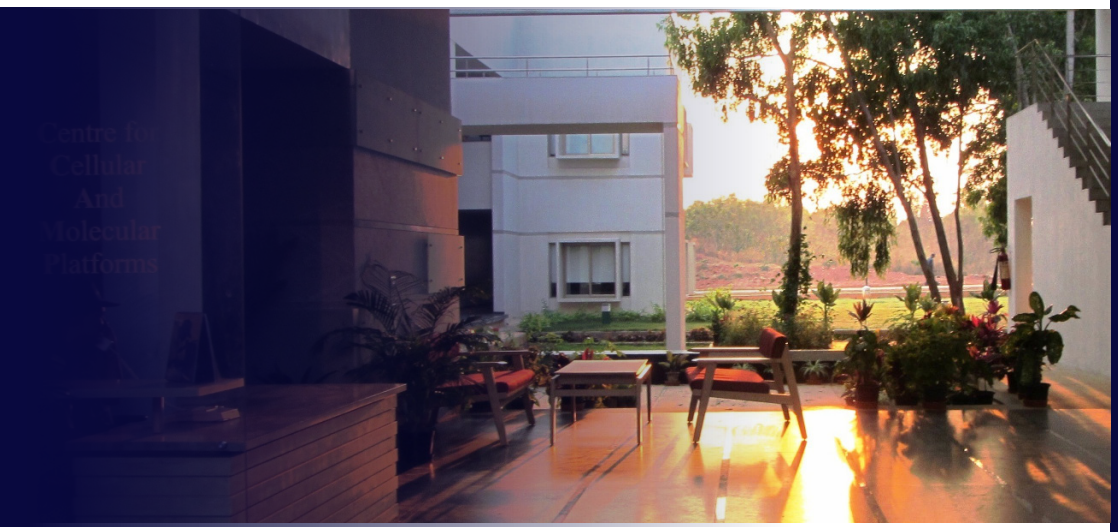
Marquee

C-CAMP Newsletter June 2022



Dear C-CAMP Friend,

Greetings from C-CAMP! Hope you are doing well.

Delighted to bring you the June 2022 edition of the C-CAMP News Bulletin, Marquee. This edition of Marquee highlights our Technology Transfer vertical with a spotlight on 8 high-impact technologies impacting healthcare, agriculture and environment. These have been translated, accelerated and commercialized by the twin Tech Transfer programs of C-CAMP-Discovery to Innovation Accelerator (DIA) and Office of Technology Transfer (OTT).

We invite licensing interests from industry, startups and academic institutions for all 8.

Hope you enjoy reading it!

As always, get in touch if you want more info.
Best Regards,

Team C-CAMP

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Technology Pick of the Month

Novel, Dipeptide-Based Nanoparticle for Dual Cargo Delivery

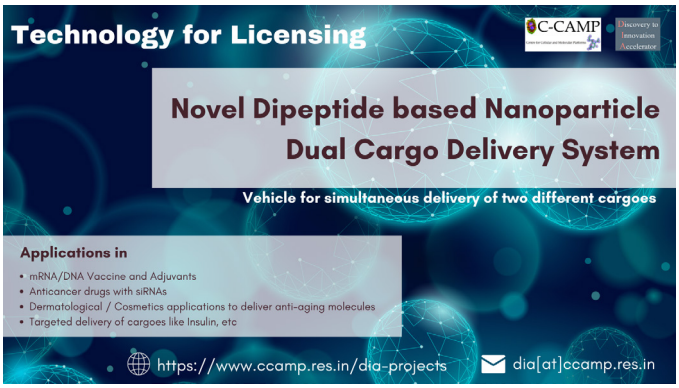
The nanoparticle with a conformationally restricted amino acid and a charged amino acid arm can host one small molecule and one nucleic acid molecule as cargoes for effective and targeted dual drug delivery.

Applications -

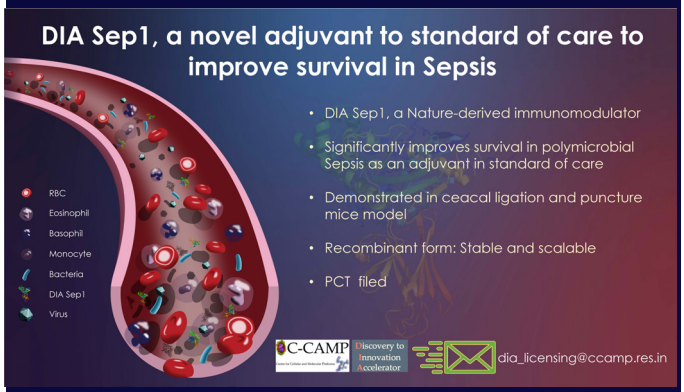
1. mRNA/DNA Vaccine and Adjuvants
2. Anticancer drugs with siRNA
3. Targeted delivery of insulin & other proteins
4. Dermatological / Cosmetics applications for delivery of anti-ageing molecules

For Licensing prospects, contact:
dia_licensing@ccamp.res.in

More Info



Highlights of C-CAMP-DIA Translational Program Portfolio



Novel Molecule for Adjuvant Therapy in Sepsis

This Molecule is a potent immunomodulator derived from a recombinant helminth protein that binds to Toll like receptors (TLR) and thus blocks interaction of the TLRs with LPS-like toxins in pathogenic infections. This results in down-regulation of the immune flare-up expanding the therapeutic window and increasing chances of survival.

Shows good survival rates in
- endotoxemia model
- Caecal ligation
- Puncture models of sepsis.

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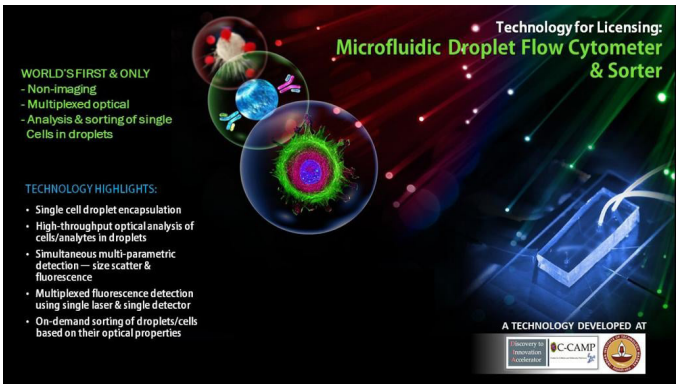
Microfluidics-based non-Imaging Multiplex Droplet Analyser & Sorter



A patented, novel, miniaturized, scalable multiplex fluorescence detection platform for high-throughput optical analysis with a sorting resolution of single cell encapsulated imicrofluidic droplets.

Applications:

- Precision medicine,
- Single-cell genomics,
- Rare cell identification for cancer detection,
- Point-of-care diagnostics, immunotherapies

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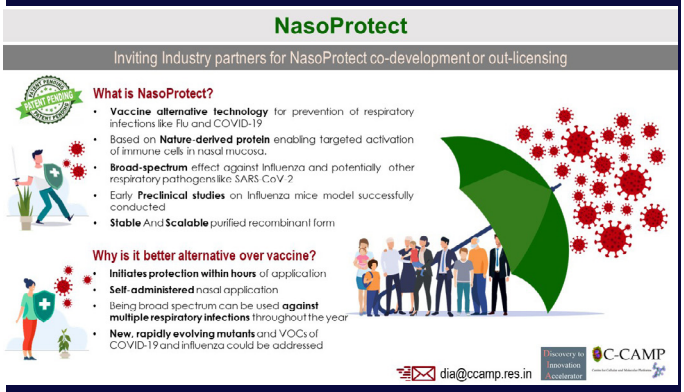

A Vaccine Alternative Approach to Prevention of Respiratory Infections through Non-invasive Immunomodulation

The technology called Nasoprotect is a self-administered, easy-to-use immunomodulatory nasal spray with broad spectrum activity against all pathogens including viruses like Influenza and potentially COVID-19. The molecule is a purified protein increasing targeted activation of immune cells in nasal mucosa.

Preclinical studies on Influenza mice model have shown significant reduction in

- Viral titers,
- Mortality rates
- Clinical symptoms.

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Top Licensing Technologies of C-CAMP OTT Tech Transfer Program

Novel Germicide Coated Fabric developed by DBT - InStem, Bengaluru

Technology involves coating fabrics with germicidal compounds capable of neutralizing enveloped viruses (e.g. lentivirus, sendi virus, COVID-19 etc). The fabric is washable and retains germicidal property for at-least up to 45 wash cycles, thereby overcoming the drawback of disposable PPEs.

Called G-Fab, the technology has been licensed to Color Threads Pvt. Ltd., and is currently in use as anti-viral masks and athleisure products manufactured and supplied by Color Threads & Aditya Birla Pvt. Ltd.

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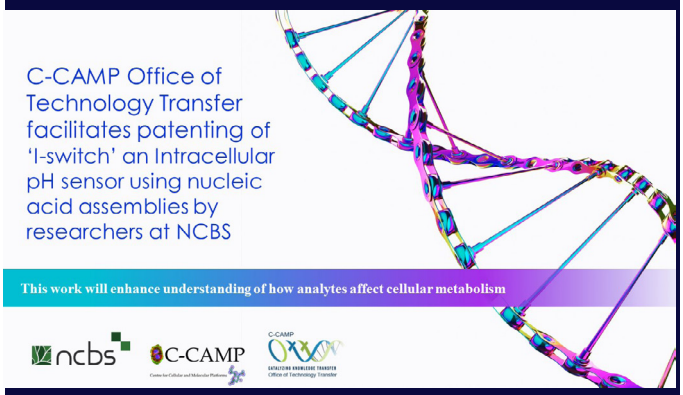

Intracellular pH sensor using nucleic acid assemblies by NCBS-TIFR, Bengaluru

Technology is a DNA nanomachine called I-switch, triggered by protons and functioning as an intracellular pH sensor. It is based on fluorescence resonance energy transfer (FRET), inside living cells.

Being a DNA device, this technology helps to understand the effect of analytes on cellular metabolism through measurement of biomarkers including pH, even within intracellular components.

Contact: ott@ccamp.res.in

More Info

Effective drug delivery system to target hepatocellular carcinoma developed by M.S. Ramaiah University of Applied Sciences, Bengaluru

The system is a novel thiolated polymer-based nanocomposite that can load the anti-cancer drug 5-fluorouracil (5FU).

Tests on cytotoxicity of this nanocomposite against hepatic carcinoma cells in comparison to ordinary 5FU administration revealed significant increase and targeting efficacy in accumulation of 5-FU in the liver.

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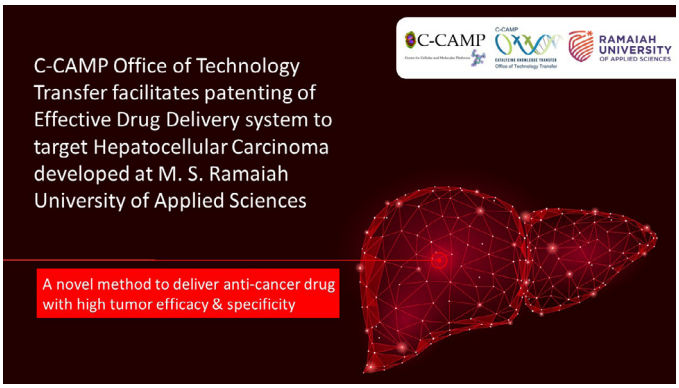

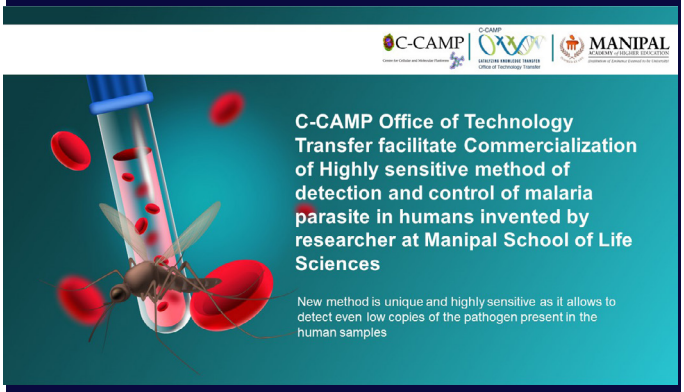

Highly sensitive and specific method of detection and control of malarial parasite in humans developed by Manipal School of Life Sciences, Manipal, Karnataka

The technology targeting reiterated elements in the *Plasmodium* genome has resulted in improving the specificity and sensitivity of malarial parasite detection in blood, plasma and other bodily fluids.

The method is adapted for detection using enucleated red blood cells, devoid of genetic material so that only DNA from parasites resident in the blood are detected using a) rapid bedside nanoparticles. b) semi-quantitative PCR and c) quantitative RT-PCR. The method allows detection of even low copies of the pathogen present in the human samples.

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