

# Soumya Nair

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## PROFESSIONAL SUMMARY

A highly committed and hard-working professional with over 12 years of R & D experience in the Biopharma industry. Specializes in cloning, mammalian cell culture and protein purification. Good organization and project management skills. Upholds high moral values and passionate about making a positive impact in society.

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## WORK EXPERIENCE

### Manager

#### Reliance Life Sciences

*April 2018 to August 2021*

- Stable cell line generation of **SARS CoV-2** protein expressing CHO clones; developed more than 9 clones within 4 months
- **In-house ELISA** development for antigen quantification resulting in more than 80% cost reduction
- Purified 4 model viruses for **viral clearance studies**
- Established a high throughput **single cell cloning** process
- Analyzed images of more than **85000 different clones** for evaluating clonality
- Clone productivity analysis by ELISA
- Generated more than **56 stable clones** by transfection via electroporation, nucleofection and chemical agents
- Comparative evaluation of the **Lonza versus Horizon CHO expression** platforms
- Protein expression & purification of candidates for targeted delivery
- Cell bank characterization by **Realtime PCR** assays and **NGS**

### Deputy Manager

#### Reliance Life Sciences

*April 2015 to March 2018*

- Optimized Single Cell Cloning by microscopy and by the limiting dilution method

## EDUCATION

### Reliance Institute of Life Sciences

*August 2009 to July 2010*

80.35 % in Advanced Diploma Program in Biotherapeutics

### Rai University (YCMOU)

*August 2004 to June 2008*

First class in B.Tech Biotechnology

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## TECHNICAL SKILLS

- Cell line development
  - Gene Transfections - transient & stable
  - Single Cell Cloning
  - CHOK1SV GS-KO platform - Lonza & Horizon
  - Bacterial Protein expression
  - Protein Chromatography
  - Bioassays
  - Recombinant DNA Technology
  - Sanger DNA Sequencing, Next Generation Sequencing
  - Real-Time PCR
  - Viral clearance studies
  - Electronic Lab notebook
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## STRENGTHS

- Good team player
  - GLP
  - Report, CTD, SOP, dossier writing
  - Ability to meet stringent deadlines
  - Excellent presentation skills
  - Fast learner, resourceful
  - Easy adaptability to change
  - Imparting training
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## WORK EXPERIENCE ... CONTINUED

- Fulfilment of **FDA requirements for assurance of monoclonality** of clones
- Generated **23 different single cell clones within 1 year**
- Developed and optimized cell based assays
- Implemented **electronic lab notebook (ELN)** in R & D with IT support, within 1 year

### Executive

#### Reliance Life Sciences

*August 2010 to March 2015 (on contract from 2010-2011)*

- **Viral assays** like plaque assay, TCID50
- **siRNA transfections and knockdown studies**
- Development of **novel candidates for siRNA delivery**
- Cloning and expression of genes in bacteria under the T7 promoter and subsequent downstream processing
- DNA and RNA based techniques like extraction, in-vitro transcription, quantitation, PCRs, sequencing
- Protein estimation and purification, SDS PAGE and Western Blotting

## PUBLICATIONS

- siRNAs encapsulated in recombinant capsid protein derived from Dengue serotype 2 virus inhibits the four serotypes of the virus and proliferation of cancer cells. J Biotechnol.;193:23-33. 2015 Jan 10
- Infant mouse brain passaged Dengue serotype 2 virus induces non-neurological disease with inflammatory spleen collapse in AG129 mice after splenic adaptation. Virus Res.;173(2):386-97. 2013 May

## INSTRUMENT HANDLING

*In order of decreasing proficiency*

- Clone Select Imager
- AKTA (Prime, Explorer and Go)
- Thermal cycler
- Sorvall centrifuge
- TFF system
- FACSCalibur
- qPCR system

## CO-CURRICULAR ACTIVITIES

- SAP material management
- In-charge of the Document Management System
- Active member of several committees like the Retreat Team, Environment Management System Committee, Electronic Lab Notebook Team
- Sports co-ordinatorship
- Event hosting
- Interfacing between the research and IT Teams

## CERTIFICATIONS

- Labware ELN - Instrument data mapping
- IBM Data Science Orientation
- IBM Data Science Methodologies
- Best Oral Presentation
- Prizes in sports and cultural events