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Clinical Research Project Management 2  
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Luxembourg  
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## Qualifications

PhD, Chemistry, University of Tartu  
1 Feb 2012 → 31 Mar 2016  
Award Date: 31 Mar 2016

Master, MTech Biotechnology, Anna University  
1 Aug 2008 → 30 Jun 2010  
Award Date: 30 Jun 2010

Bachelor, BPharmacy, Tamil Nadu Dr. MGR Medical University  
1 Oct 2003 → 30 Sept 2007  
Award Date: 30 Sept 2007

## Employment

**Clinical Research Project Manager**  
Clinical Research Project Management 2  
Luxembourg Institute of Health  
1 May 2023 → 30 Apr 2025

### Visiting Scientist

University of Montreal  
Montréal, Canada  
1 Jun 2022 → 31 Aug 2022

### Post-Doctoral Scientist

University of Luxembourg  
Belvaux, Luxembourg  
1 Jan 2018 → 31 Dec 2022

### Post-Doctoral Research Fellow

Turku Bioscience Centre  
1 Jan 2017 → 31 Dec 2017

## Research outputs

Identification of an H-Ras nanocluster disrupting peptide  
Steffen, C. L., Manoharan, G. B., Pavic, K., Yeste-Vázquez, A., Knuutila, M., Arora, N., Zhou, Y., Härmä, H., Gaigneaux, A., Grossmann, T. N. & Abankwa, D. K., 9 Jul 2024, In: Communications Biology. 7, 1, 837.

An Improved PDE6D Inhibitor Combines with Sildenafil To Inhibit KRAS Mutant Cancer Cell Growth  
Kaya, P., Schaffner-Reckinger, E., Manoharan, G. B., Vukic, V., Kiriazis, A., Ledda, M., Burgos Renedo, M., Pavic, K., Gaigneaux, A., Glaab, E. & Abankwa, D. K., 13 Jun 2024, In: Journal of Medicinal Chemistry. 67, 11, p. 8569-8584 16 p.

K-Ras Binds Calmodulin-Related Centrin1 with Potential Implications for K-Ras Driven Cancer Cell Stemness  
Manoharan, G. B., Laurini, C., Bottone, S., Ben Fredj, N. & Abankwa, D. K., 7 Jun 2023, In: Cancers. 15, 12, 3087.

Detection of Ras nanoclustering-dependent homo-FRET using fluorescence anisotropy measurements  
babu Manoharan, G., Guzmán, C., Najumudeen, A. K. & Abankwa, D., Jun 2023, In: *European Journal of Cell Biology*. 102, 2, 151314.

Potential of phenothiazines to synergistically block calmodulin and reactivate PP2A in cancer cells  
Manoharan, G. B., Okutachi, S. & Abankwa, D., May 2022, In: *PLoS ONE*. 17, 5 5, e0268635.

Pharmacophore Model for SARS-CoV-2 3CLpro Small-Molecule Inhibitors and in Vitro Experimental Validation of Computationally Screened Inhibitors  
Glaab, E., Manoharan, G. B. & Abankwa, D., 23 Aug 2021, In: *Journal of Chemical Information and Modeling*. 61, 8, p. 4082-4096 15 p.

A Covalent Calmodulin Inhibitor as a Tool to Study Cellular Mechanisms of K-Ras-Driven Stemness  
Okutachi, S., Manoharan, G. B., Kiriazis, A., Laurini, C., Catillon, M., McCormick, F., Yli-Kauhaluoma, J. & Abankwa, D., 8 Jul 2021, In: *Frontiers in Cell and Developmental Biology*. 9, 665673.

Medium-Throughput Detection of Hsp90/Cdc37 Protein-Protein Interaction Inhibitors Using a Split Renilla Luciferase-Based Assay  
Siddiqui, F. A., Parkkola, H., Manoharan, G. B. & Abankwa, D., 1 Feb 2020, In: *SLAS Discovery*. 25, 2, p. 195-206 12 p.

PDE6D Inhibitors with a New Design Principle Selectively Block K-Ras Activity  
Siddiqui, F. A., Alam, C., Rosenqvist, P., Ora, M., Sabt, A., Manoharan, G. B., Bindu, L., Okutachi, S., Catillon, M., Taylor, T., Abdelhafez, O. M., Lönnberg, H., Stephen, A. G., Papageorgiou, A. C., Virta, P. & Abankwa, D., 14 Jan 2020, In: *ACS Omega*. 5, 1, p. 832-842 11 p.

High-throughput amenable fluorescence-assays to screen for calmodulin-inhibitors  
Manoharan, G. B., Kopra, K., Eskonen, V., Härmä, H. & Abankwa, D., 1 May 2019, In: *Analytical Biochemistry*. 572, p. 25-32 8 p.

Thiazole- and selenazole-comprising high-affinity inhibitors possess bright microsecond-scale photoluminescence in complex with protein kinase CK2  
Vahter, J., Viht, K., Uri, A., Manoharan, G. B. & Enkvist, E., 1 Oct 2018, In: *Bioorganic and Medicinal Chemistry*. 26, 18, p. 5062-5068 7 p.

Bifunctional Ligands for Inhibition of Tight-Binding Protein-Protein Interactions  
Ivan, T., Enkvist, E., Viira, B., Manoharan, G. B., Raidaru, G., Pflug, A., Alam, K. A., Zaccolo, M., Engh, R. A. & Uri, A., 17 Aug 2016, In: *Bioconjugate Chemistry*. 27, 8, p. 1900-1910 11 p.

Combining chemical and genetic approaches for development of responsive FRET-based sensor systems for protein kinases  
Manoharan, G. B., Enkvist, E. & Uri, A., 1 Apr 2016, In: *Biophysical Chemistry*. 211, p. 39-48 10 p.

Phosphorylation of Notch1 by Pim kinases promotes oncogenic signaling in breast and prostate cancer cells  
Santio, N. M., Landor, S. K. J., Vahtera, L., Ylä-Pelto, J., Paloniemi, E., Imanishi, S. Y., Corthals, G., Varjosalo, M., Manoharan, G. B., Uri, A., Lendahl, U., Sahlgren, C. & Koskinen, P. J., 2016, In: *Oncotarget*. 7, 28, p. 43220-43238 19 p.

PIM kinase-responsive microsecond-lifetime photoluminescent probes based on selenium-containing heteroaromatic tricycle  
Ekambaram, R., Manoharan, G. B., Enkvist, E., Ligi, K., Knapp, S. & Uri, A., 5 Nov 2015, In: *RSC Advances*. 5, 117, p. 96750-96757 8 p.

FRET-based screening assay using small-molecule photoluminescent probes in lysate of cells overexpressing RFP-fused protein kinases  
Manoharan, G. B., Enkvist, E., Kasari, M., Viht, K., Zenn, M., Prinz, A., Filhol, O., Herberg, F. W. & Uri, A., 3 Jun 2015, In: *Analytical Biochemistry*. 481, p. 10-17 8 p.

Benzoselenadiazole-based responsive long-lifetime photoluminescent probes for protein kinases

Ekambaram, R., Enkvist, E., Manoharan, G. B., Ugandi, M., Kasari, M., Viht, K., Knapp, S., Issinger, O. G. & Uri, A., 20 Mar 2014, In: *Chemical Communications*. 50, 31, p. 4096-4098 3 p.

Active site analysis of cis-epoxysuccinate hydrolase from *Nocardia tartaricans* using homology modeling and site-directed mutagenesis

Vasu, V., Kumaresan, J., Babu, M. G. & Meenakshisundaram, S., Mar 2012, In: *Applied Microbiology and Biotechnology*. 93, 6, p. 2377-2386 10 p.