

## Computational Cancer Biology Training Program (CCBTP)

Program Director B. Montgomery Pettitt, UT Medical Branch at Galveston

CPRIT RP170593 (project dates 12/1/2016 – 11/30/2022)

### Current Postdoctoral Trainees

Last Name	First Name	Institution	Primary Mentor	Secondary Mentor	Project Title	Training Period
<b>Burns Casamayor</b>	Violeta	UTH	Alex Gorfe, UTH	John Hancock, UTH	<i>Characterization of DiRas3 Double Anchor and Determination of Its Role in the Formation of KRas Dimers</i>	12/01/2021-11/30/2022
<b>Chen</b>	Hu	MDA	Han Liang, MDA	George Calin, MDA	<i>Next-Generation Analytics for Omics Data</i>	12/08/2020-11/30/2022
<b>Conrad</b>	James	UTMB	Lawrence Sowers, UTMB	Monte Pettitt, UTMB	<i>Structural Basis For hTERT Mutations in Glioma and Melanoma</i>	12/01/2021-11/30/2022
<b>Cruz</b>	Lissette	UTH	Cindy Farach-Carson, UTH	Oleg Igoshin, Rice	<i>Computational Approaches to Study Collective Cell Migration in Tumor Dyscohesion and Metastasis</i>	03/01/2020-02/28/2022
<b>Jiang</b>	Xianli	MDA	Ken Chen, MDA	Lydia Kavrakli, Rice	<i>Inference of Cell-cell Interaction in Tumor Microenvironment Via Integration of Single Cell Profiling Data and Structural Modeling</i>	12/01/2021-11/30/2022

<b>Hsieh</b>	Kang-Lin	UTH	Xiaoqian Jiang, UTH	Pratip Bhattacharya, MDA; and Shayan Shams, UTH	<i>Interrogating Early Detection and Therapy Efficacy in Glioblastoma by Artificial Intelligence and Metabolic Imaging</i>	01/01/2021-12/30/2022
<b>Menegatti Rigo</b>	Mauricio	Rice	Lydia Kavraki, Rice	Greg Lizee, MDA	<i>TCRDock: A New Platform For Ensemble Docking of T Cell Receptors and Peptide-HLA in Cancer Immunotherapy</i>	01/01/2021-11/30/2022
<b>Zhu</b>	Ying	HMRI	Stephen T. Wong, HMRI	Samuel C. Mok, MDA	<i>Integrating Imaging Mass Cytometry With Spatial Transcriptomics And Single-Cell RNA-Seq For Understanding of Drug Resistance In Ovarian Cancer</i>	07/01/2020-06/30/2022

### Former Postdoctoral Trainees

<b>Antunes</b>	Dinler	Rice	Lydia Kavraki, Rice	Greg Lizee, MDA	<i>Structure-based Prediction of T-cell Cross-reactivity for Cancer Immunotherapy</i>	05/01/2019-12/16/2020
<b>Campos Acevedo</b>	Adam	BCM	Qinghua Wang, BCM	Jianpeng Ma, BCM	<i>Structural Basis of p53 Activation</i>	05/01/2019-04/30/2021

<b>Chen</b>	Mei-Ju (May)	MDA	Han Liang, MDA	Li Ma, MDA	<i>A Systematic Approach to Identifying Clinically Actionable Somatic Alterations in Cancer</i>	12/01/2019-11/30/2020
<b>Devaurs</b>	Didier	Rice	Lydia Kavraki, Rice	Greg Lizee, MDA	<i>Molecular docking with receptor flexibility to predict binding modes of peptide-HLA complexes for cancer immunotherapy</i>	04/01/2017-10/31/2018
<b>Fan</b> <i>(as of July 2020, publishing under last name Mallory)</i>	Xian	Rice	Luay Nakhleh, Rice	Nick Navin, MDA	<i>Accurately Detecting Copy Number Variations by Single Cell Sequencing Data in Cancer</i>	12/01/2018-07/20/2020
<b>Gupta</b>	Amit Kumar	UTH	Alex Gorfe, UTH	Anil Sood, MDA	<i>Identification of potential K-RAS inhibitors by hierarchical virtual screening and experiments</i>	04/01/2017-03/31/2019
<b>Handley</b>	Katelyn	MDA	Anil Sood, MDA	Prahlad Ram, MDA	<i>Mechanisms Behind Rational Combinations With a CRM1 Inhibitor in Ovarian Cancer</i>	07/01/2019-06/14/2021
<b>Hsu</b>	Willi Weili	UTMB	Lawrence Sowers, UTMB	Yuriy Fofanov, UTMB	<i>Measurement of T:G Frequency at Codon 248 of Exon 7 of the TP53 Gene Using Deep Sequencing in Human Cell Lines and Tissues</i>	01/01/2018-12/31/2019
<b>Huang</b>	Kai-Lieh Frank	UTMB	Eric J. Wagner, UTMB	Michelle Ward, UTMB	<i>Utilizing Chemical and Functional Genomics to Interrogate Integrator Subunit 11: A Candidate Cancer CYCLOPS gene</i>	08/01/2020-09/30/2021

<b>Ip</b>	Ka Man / Carman	MDA	Gordon Mills, MDA	Han Liang, MDA	<i>Functional Characterization of Genomic-Glycosylation Aberrations in Tumor Initiation and Progression</i>	04/01/2017-06/30/2018
<b>Jia</b>	Dongya	Rice	José N. Onuchic, Rice	Benny Kaiparettu, BCM	<i>An Integrated Theoretical-experimental Approach to Elucidate Mechanisms Underlying Cancer Metabolic Reprogramming and Its Interplay with Epithelial-mesenchymal Transition</i>	05/01/2019-02/27/2021
<b>Jolly</b>	Mohit Kumar	Rice	Herbie Levine, Rice	Sam Hanash, MDA	<i>An Integrated Theoretical-experimental Approach to Elucidate the Mechanisms for High Metastatic Potential of Clusters of Circulating Tumor Cells (CTCs)</i>	04/01/2017-10/14/2018
<b>Lantos</b>	Cecilia	Rice	Amina Qutub, Rice	Steven Kornblau, MDA, and Rich Baraniuk, Rice	<i>Functional Hallmarks of Acute Myeloid Leukemia from Cellular Images</i>	05/04/2017-06/30/2018
<b>Li</b>	Jiasong	Houston Methodist Research Institute	Steven Wong, HMRI	Cindy Farah-Carson, UTH	<i>Combining Deep Learning and Coherent Anti-Stokes Raman Scattering (CARS) Imaging for Automated Prostate Cancer Margin and Nerve Detection During Surgery</i>	07/01/2018-06/30/2020
<b>Ni</b>	Fengyun	BCM	Qinghua Wang, BCM	Jianpeng Ma, BCM	<i>Molecular Mechanisms of Human Polycomb Repressive Complex 2 Holoenzyme</i>	04/01/2017-03/31/2019

<b>Parvandeh</b>	Saeid	BCM	Olivier Lichtarge, BCM	Lawrence Donehower, BCM	<i>Cancer Driver Discovery: Machine Learning Over the Evolutionary Action of Somatic Coding Mutations in Tumors</i>	05/01/2019-04/30/2021
<b>Pudakalakatti</b>	Shivanand	MDA	Pratip Bhattacharya, MDA	Cindy Farach-Carson, UTH	<i>Early Detection of Pancreatic Cancer by Targeted Molecular Imaging of Hyperpolarized Silicon Nanoparticles</i>	04/01/2017-03/31/2019
<b>Samoylova</b>	Olga	UTMB	Monte Pettitt, UTMB	Petr Leiman, UTMB	<i>Bacteriophages to Treat Secondary Infections in Cancer Patients</i>	06/01/2017-05/31/2019
<b>Shih</b>	David	MDA	Shiaw-Yih (Phoebus) Lin, MDA	Kim-Anh Do, MDA	<i>Modeling Mutational Processes in Cancer to Guide Rational Therapy</i>	12/01/2018-11/30/2020
<b>Wang</b>	Yumeng	MDA	Han Liang, MDA	Li Ma, MDA	<i>The Genomic Landscape of RNA Editing in Non-coding RNAs Across 33 Human Cancers</i>	07/01/2018-06/30/2019
<b>Yin</b>	Jun	MDA	Shiaw-Yih Lin, MDA	Kim-Anh Do, MDA	<i>PTEN Loss Confers Poly [ADP-ribose] Polymerase (PARP) Inhibitor Resistance in BRCA1-depleted Triple-negative Breast Cancer</i>	06/01/2017-11/05/2017

<b>Zhu</b>	Yingjie	UTMB	Malgorzata Rowicka-Kudlicka, UTMB	Eric Wagner, UTMB	<i>Unraveling the Mechanisms of Promoter-proximal Pausing of RNA Polymerase II</i>	04/01/2017-03/31/2019
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### Former Affiliated Postdoctoral Trainees (unfunded)

<b>Aslan</b>	Burcu	MDA	Varsha Gandhi, MDA	Anil Korkut, MDA	<i>Integrative Computational Approaches to Overcome Acquired ibrutinib Resistance in Chronic Lymphocytic Leukemia</i>	07/01/2018-06/30/2019 (on grant Year 02)
<b>Dereli Korkut</b>	Zeynep	HMRI	Robert Rostomily, HMRI	Luca Giancardo, HMRI	<i>Proteomic Heterogeneity and Markers of Immunotherapy Response in GBM Tumor Microenvironment</i>	07/01/2018-06/30/2019 (on grant Year 02)
<b>Geng</b>	Xin	UTH	Degui Zhi, UTH	Steven Lin, MDA	<i>An Integrative Multi-Layer Deep Learning Model For Predicting Cancer Related Phenotype From Multiple Omics Data</i>	01/01/2018-11/30/2018 (on grant Year 02)
<b>Kanlikilicer</b>	Pinar	MDA	Gabriel Lopez-Berestein, MDA	Prahlad Ram, MDA	<i>DCLK1 Leads To Poor Survival In Ovarian Cancer Patients Through Cisplatin And Taxol Resistance</i>	01/01/2018-09/30/2018 (on grant Year 02)
<b>Stur</b>	Elaine	MDA	Anil Sood, MDA	Prahlad Ram, MDA	<i>The Role of Cancer-associated Fibroblasts in Immune Suppression in Ovarian Tumors</i>	07/01/2018-06/30/2019 (on grant Year 02)