| Last Name      | First Name           | Institution  | Research Interest  |
|----------------|----------------------|--|--|
| Lust Hunne     | JE HUITE             |  | My research interest seeks to understand the dynamics of integrin adhesion and de-adhesion from its ligands using biochemistry, biophysical and computational  |
| Alabi          | Zaccheaus            | University of Houston  | tools.   |
| ,              | Zaconcado            |  | My research interests include investigation of cytoskeletal protein complex and tumor microenvironment interactions, dynamics and underlying mechanisms in   |
| l              | Jocelyn              |  | metastatic osteosarcomas. These investigations involve the use of on-chip tissue engineered microenvironment models, single cell nano-devices and microbiology   |
| Baker          | (preference - Jocie) | Rice University, Bioengineering  | techniques for cellular protein quantification and cellular complex characterization.  |
|                | (procedure)          | The commence of the commence o | I am studying the metabolic adaptations in chemoresistant TNBC. I am interested in the transportation of proteins into and within the mitochondria. I would like   |
| Berner         | Mariah               | Baylor College of Medicine   | to learn more about this group.  |
|                |                      | , 3  | l am interested in studying diseases with complex a pathogenesis and marked challenges in developing therapeutics, such as cancer and neurodegenerative  |
| l              |                      |  | diseases. My interest in this scholar program is to better understand these types of diseases from a cellular and molecular biophysics perspective and to get new  |
| Boice          | Ashley               | Baylor College of Medicine   | microscopy and imaging technique ideas.  |
|                |                      | , ,  | I primarily work on RNA structural biology, specifically developing a tool/platform to study RNA structure in conjunction with localization. Overall, my main  |
| Bose           | Ritwika              | Baylor College of Medicine   | interests are developing molecular tools, broadly chemical biology to enable research.   |
|                |                      |  | Interested in understanding the catalytic processes that occur within metalloenzymes such as polymerases and nucleases with enzyme kinetics and X-ray time-  |
| 1              |                      |  | resolved crystallography. I'm also passionate in translating these mechanistic findings and in rendering the captured enzymatic intermediate states into 3D  |
| Chang          | Caleb                | Rice University  | movies for the general public.   |
|                |                      |  |  |
| Churion        | Kelly                | Texas A&M IBT  | study bacterial proteins and their interaction with human host proteins where we analyze the thermodynamic and kinetic parameters of such interactions.  |
|                |                      | Rice University and São Paulo State  | Expand what I have done during my phD, trying to understand biophysical effects on cancer cells by anti-cancer agents, through AFM's pure signals and given  |
| Contessoto     | Nayara               | University   | meaning to observable in corroboration to others well established parameters.  |
|                |                      |  |  |
| Dumbali        | Sandeep              | UT Health  | Mechanobiology: I am interested to investigate the role of fluid shear stress in the metabolic pathways involved in endothelial to hematopoietic transition.   |
|                |                      | UTH - Houston / Mcgovern Medical   | Traumatic Brain Injury , Stem Cell Therapy .   |
| El Sayed       | Razan                | School   | Safety and efficacy of Stem cell therapy in the management and prevention of neuroinflammation , Chronic Neurodegeneration after traumatic brain injury.   |
| l              |                      |  | The usage of non-invasive metabolic imaging for the detection and progression monitoring of different cancer systems. Metabolic imaging using Hyperpolarized   |
| Enriquez       | Jose                 | UT MD Anderson Cancer Center   | MRI and PET.   |
| l              |                      | University of Texas Health Science Center  | am interested in studying the molecular basis of Huntington's disease (HD). I am currently investigating the role Huntingtin/HAP40 complex in HD pathogenesis,   |
| Farmer         | Stephen              | at Houston (UTHealth)  | specifically, in the endosomal pathway using Drosophila and structural bioinformatics .  |
| l              |                      |  |  |
| Flores         | Victoria             | University of Texas Medical Branch   | am interested in understanding how bacterial lifestyles (infectious and latent) affect chromosomal structure using super-resolution microscopy techniques.  I'm a graduate student in the Gustavsson lab where my research focuses on using 3D single-molecule super-resolution imaging and tracking to answer biophysical |
| l              |                      |  | and biomedical questions. Specifically, I am focused on understanding the molecular mechanisms occurring in Hutchinson-Gilford Progeria Syndrome (HGPS) and  |
| 1              |                      |  | on improving the understanding of HGPS disease progression. I am interested in the application of physics to develop tools that will positively impact society and   |
| Casliana       | Cabriella            | Rice University  |  |
| Gagliano       | Gabriella            | The University of Texas Medical Branch   | improve our understanding of disease pathogenesis and other biomedical questions.  My research interests are to better understand the connection between the mechanics of the cells, the structure of genomes and the function of the cells, in  |
| Galis Vivante  | Anat                 | (UTMB)   | order to provide new ways to modify cell behaviors without drugs, which may enable treatment of many disorders including cancer.   |
| Galls vivalite | Allat                | (OTIVIB)   | I am interested in computational and theoretical approaches to understanding the behavior of biological systems through the lens of physics. My present work is  |
| Gard           | Joel                 | University of Houston  | focused on the behavior of semi-flexible biopolymers within confined geometries.   |
| Garu           | Joei                 | Offiversity of Houston   | I study the structure and function of the ionotropic glutamate receptors which are membrane channels important in the brain. Specifically, I use electrophysiology   |
| l              |                      |  | and fluorescence techniques to investigate the trans-synaptic complex created by the interaction between ionotropic glutamate receptors and their presynaptic  |
| Gonzalez       | Cuauhtemoc           | University of Texas Health Science Center  | partners.  |
| GOTIZATEZ      | Cuauntemoc           | Offiversity of Texas Fleatin Science Center  | I am interested in studying the LLPS of IDPs via computational methods. Currently, I am working on accelerating the MD simulations, and optimizing the coarse  |
| GUPTA          | AYUSH                | University of Houston  | grained models of IDPs via AI techniques.  |
| GOLIA          | ATOSTI               | Chiversity of Houston  | I am interested in analyzing the structure and dynamics of the LiaFSR three-component signaling system and its effectors to understand how these contribute to   |
| Hood           | Kara                 | Houston Methodist Research Institution   | the development of daptomycin resistance in Enterococcus faecalis.   |
| Idowu          | Kehinde              | Texas Southern University  | My research interest focuses on drug development on viral diseases and cancer, employing both molecular and computational techniques.  |
| IGOVV          | Kermide              | Texas Southern Oniversity  | I'm a fifth-year Ph.D. student work in computational biophysics and I was a speaker in 3rd Annual GCC CMB Conference. I want to bring my knowledge into the  |
| Jin            | Shikai               | Rice University  | CMB and contribute to the discussion and organization.   |
| Kadamangudi    | Shrinath             | UTMB   | Dementia and Alzheimer's Disease   |
|                |                      |  |  |
| Khan           | Uffaf                | Texas A&M University   | Translational research in clinical field, neuroscience, genetics and biotechnology.  |
| Koleilat       | Mohamad Karim        | UT MD Anderson Cancer Center   | My interests lie in translation and basic cancer biology and I am interested in investigating the biophysical processes involved specifically in cancer signaling.   |

|                 |              |  | RNA structure and dynamics in a variety of contexts, ranging from ribonucleoprotein assemblies to viral replication, using high-resolution computer models and   |
|-----------------|--------------|--|--|
| Malekzadeh      | Karim        | University of Houston                        | advanced sampling techniques.  |
| Mattos          | Marlon       | Baylor College of Medicine                   | Neural circuit formation during development to uncover new developmental mechanisms. CAMs in neurological development and neurodegeneration.   |
| Widtios         | WidiToff     | University of Houston College of             | rectar or care formation during development to directed new developmental mechanisms. Of this in real obligation development and incursors generation.   |
| McPherson       | Jacob        | Pharmacy                                     | Infectious Diseases, Antimicrobial Resistance, Microbiome-Host Interactions, Receptor Theory Pharmacology, Structural Biology  |
| iviei iieiseii  |              | · ·  | My work focuses on the investigation of chromosome behavior and structure and their influence on gene activity. By using coarse-grained models, we study   |
|                 |              |  | chromatin phase separation and inter-chromosome interactions in systems with multiple chromosomes, seeking to have a deeper understanding of how they  |
| Mello           | Matheus      | Rice University                              | affect each other and how the nucleus behaves as a whole during interphase.  |
| Molden          | Tatiana      | Houston Methodist Research Institute         | Exploring RNA-protein and rna-rna interactions for design of cancer therapeutics.  |
|                 |              |  | I am a 6th-year graduate student working in theoretical and computational polymer physics with relevance to problems in biology. My research interests are:  |
|                 |              |  | -Molecular Dynamics and Monte-Carlo simulations to predict the statistics of charged biopolymers such as DNA, with applications to next-generation gene-   |
|                 |              |  | sequencing techniques and single-molecule force-extension experiments.   |
|                 |              |  | -Mathematical modeling of biological problems, for example, protein-DNA interactions in histone, using statistical tools from polymer physics like path integrals,   |
|                 |              |  | mean-field models, and coarse-grained modeling.  |
|                 |              |  | -Modeling physical properties of active, non-equilibrium systems such as crosslinkers/motors interacting with cytoskeletal filaments like F-actin.   |
|                 |              |  | -Leveraging my skills in polymer physics to study the environmental impact and interactions of polymers and creating sustainable solutions.  |
| Mondal          | Ananya       | University of Houston                        |  |
| Nair            | Vinay        | UT MD Anderson Cancer Center                 | Computational chemist conducting research towards discovery and development of impactful small-molecule anti-cancer drugs.   |
|                 |              |  | My Master's research focuses on manufacturing of biosensors for diagnostics. I work with ELISAs, DNAzyme printing, hydrogel formation and optimization of  |
| Najm            | Lubna        | McMaster                                     | manufacturing process.   |
| Danarolla       | Alvesa       | Paylor College of Medicine                   | Through work in two labs, I am studying an oncohistone through a biology and chemistry lens. More specifically, I am interesting in exploring how the epigenetic PTM landscape is driven by an oncohistone and how this drives underlying biology.   |
| Paparella       | Alyssa       | Baylor College of Medicine                   |  |
| Perez           | Ross         | Baylor College of Medicine                   | I am interested in neuronal connectivity in the developing mouse retina and the cellular and molecular mechanisms behind it.  My research interest lie at the intersection of computational biology and the epigenetics of histone modifications. In our lab, we marry together sophisticated top- |
|                 |              |  | down proteomic methods with novel computational scores to understand histone post-translational modification crosstalk (how the presence of one PTM either   |
| Poncha          | Karl         | Baylor College of Medicine                   | potentiates or precludes the presence of another PTM on the same histone tail).  |
| Potolitsyna     | Evdokiia     | BCM  | I am interested in the biology of nucleoli, their physical properties, and how they behave in processes such as cell differentiation.  |
| . 010070        |              |  | I am interested in the atomistic simulation of RNAs and proteins. More specifically, my research seeks efficient advanced sampling methods for RNA- protein  |
| Rahimi          | Kosar        | University of Houston                        | simulations.   |
|                 |              |  | I have an extensive background in biochemistry and biophysics, especially in the fields of photochemistry and spectroscopy. My research at BCM is focused on the   |
| SAFIARIAN       | MOHAMMAD     | Baylor College of Medicine                   | development and optimization of techniques used for superresolution imaging of subcellular compartments.   |
| Scott           | Anthony      | MDS  | Pizza, Computers   |
| Steimle         | Jeff         | Baylor College of Medicine                   | I am interested in understanding cardiac genetics and transcriptional regulation.  |
| Stojsin         | Rastko       | UTHealth School of Biomedical<br>Informatics | deep learning in single-cell omics.  |
|                 | Abu Montakim | University of Houston                        | I am working on Plasmon-Induced Intracellular Delivery   |
| Tareq<br>Thomas | Naiju        | University of Texas Medical Branch           | My research focuses on understanding the impact of aberrated transcriptional machinery on the genome organization.   |
| THOMas          | Ivaiju       | Offiversity of Texas Medical Branch          | I am an Experimental Biologist turned Bioinformatician who likes to decipher the role of players of central dogma of biology in context to biological complexity   |
| Trivedi         | Rakesh       | M D Anderson Cancer Center                   | and diseases.  |
| Van Riper       | Justin       | Baylor College of Medicine                   | Structure, function, and regulation of RNA Binding proteins  |
| WANG            | XIANLONG     | Baylor college of medicine                   | Novel role for CHD7 in the regulation of microtubules beyond its canonical chromatin remodeling activity.  |
| Wang            | Xiang        | baylor college of medicine                   | single cell tumor develoment   |
| Watson          | Tiara        | Houston Methodist Research Institute         | My research interests are entomology and RNA   |
| Woods           | Mae          | Baylor College of Medicine                   | Mathematical model building of biological systems  |
|                 |              |  | My research interests are in the field of hepatocellular carcinoma (HCC), which is ranked first in cancer mortality and there is little effective FDA approved   |
| Xu              | Hongting     | Baylor College of Medicine                   | drug/therapy available. I am currently identifying driver oncogenes for HCC progression using genome-wide unbiased CRISPR screening.   |

|       |             |                            | With an increasing number of adults suffering from diabetes and non-alcoholic fatty liver disease, hepatocellular carcinoma (HCC) is expeced to affect one million patients by the year 2025. To identify novel drug targets and regulatory mechanisms for HCC development, I am currently performing genome-wide unbiased |
|-------|-------------|----------------------------|--|
| Xu    | Hongting    | Baylor College of Medicine | CRISPR screening.  |
| Yadav | Deepa Kumar | Houston Methodist          | structure-based design of RNA therapeutics   |
|       |             |                            | am very much interested in knowing more about the molecular biophysics and its impact. I am looking forward to know more about the protein folding, protein  |
| Zahid | Khadija     | Rice University            | structure prediction and the study of spectroscopy to know the dynamics of biomolecules.   |