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Here, we introduce our framework BLAST (Bridging Length/time scales via Atomistic Simulation Toolkit) that leverages machine learning principles to address this challenge. BLAST is a multi-fidelity scale bridging framework that provide users with the capabilities to train and develop their own classical atomistic and coarse-grained interatomic potentials (force fields) for molecular simulations.

### **[2002.10401] BLAST: Bridging Length/time scales via ...**

Bridging the Time Scales: Molecular Simulations for the Next Decade Nielaba, Peter; Mareschal, Michel; Ciccotti, Giovanni; Abstract. Publication: Bridging the Time Scales: Molecular Simulations for the Next Decade. Pub Date: 2002 DOI: 10.1007/3-540-45837-9 Bibcode: ...

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Bridging the Time Scale Gap with Transition Path Sampling / Christoph Dellago and David Chandler --12. The Stochastic Difference Equation as a Tool to Compute Long Time Dynamics / Ron Elber, Avijit Ghosh and Alfredo Cardenas --13.

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**Biomolecular dynamics at long timesteps: Bridging the ...**

It is likely that due to changes in gene expression during development, many molecular components may vary on the timescale of hours (Mann & Firtel, 1989). In our model, this could manifest in a number of ways, including changes in the value of parameters with time as well as minor changes in the shape of the corresponding nullclines.

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