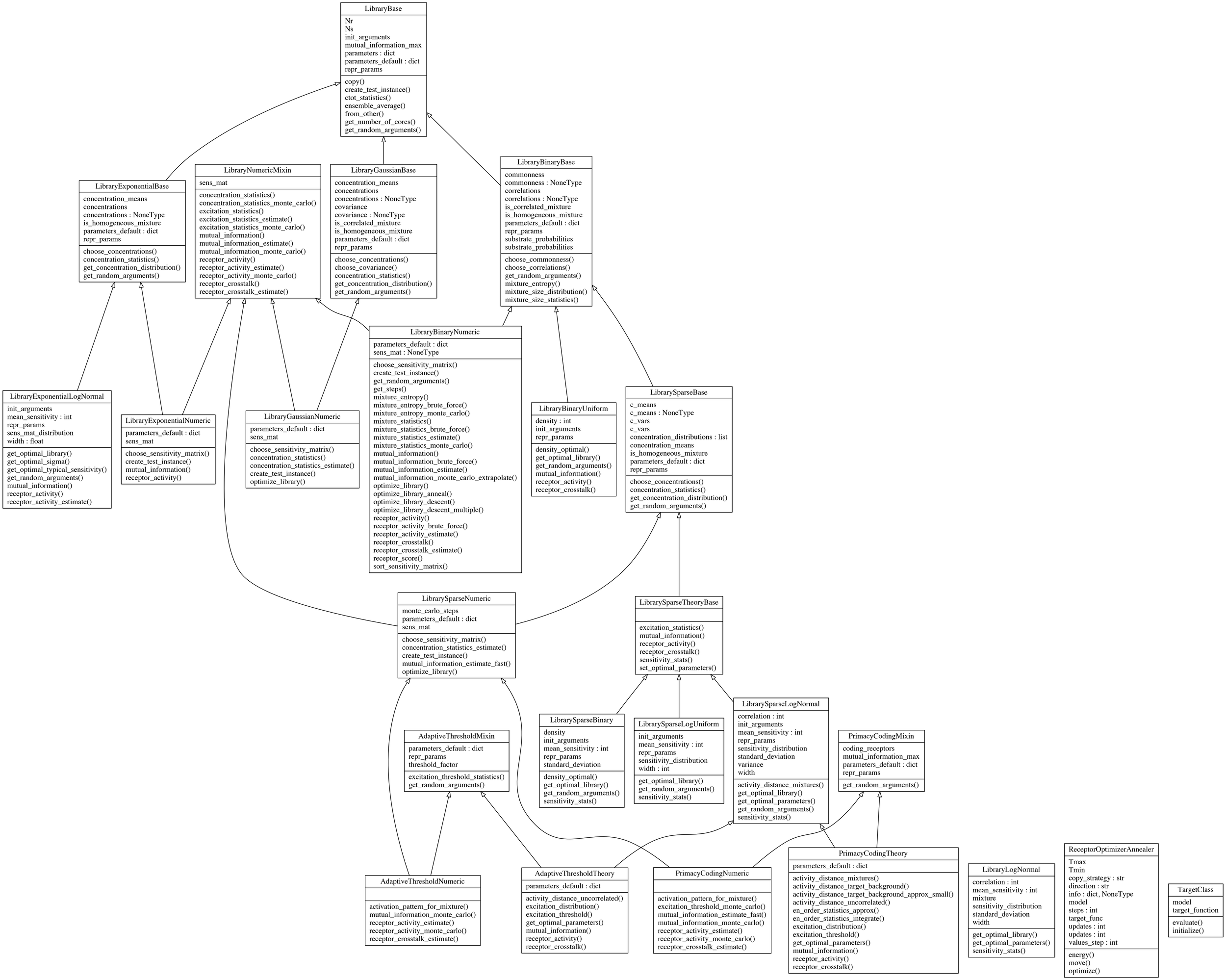
LibraryBase
Nr
Ns
init_arguments
mutual_information_max
parameters : dict
parameters_default : dict
repr_params
copy()
create_test_instance()
ctot_statistics()
ensemble_average()
from_other()
get_number_of_cores()
get_random_arguments()
LibraryExponentialBase
concentration_means
concentrations
concentrations : NoneType
is_homogeneous_mixture
parameters_default : dict
repr_params
choose_concentrations()
concentration_statistics()
get_concentration_distribution()
get_random_arguments()
LibraryNumericMixin
sens_mat
concentration_statistics()
concentration_statistics_monte_carlo()
excitation_statistics()
excitation_statistics_estimate()
excitation_statistics_monte_carlo()
mutual_information()
mutual_information_estimate()
mutual_information_monte_carlo()
receptor_activity()
receptor_activity_estimate()
receptor_activity_monte_carlo()
receptor_crosstalk()
receptor_crosstalk_estimate()
LibraryGaussianBase
concentration_means
concentrations
concentrations : NoneType
covariance
covariance : NoneType
is_correlated_mixture
is_homogeneous_mixture
parameters_default : dict
repr_params
choose_concentrations()
choose_covariance()
concentration_statistics()
get_concentration_distribution()
get_random_arguments()
LibraryBinaryBase
commonness
commonness : NoneType
correlations
correlations : NoneType
is_correlated_mixture
is_homogeneous_mixture
parameters_default : dict
repr_params
substrate_probabilities
substrate_probabilities
choose_commonness()
choose_correlations()
get_random_arguments()
mixture_entropy()
mixture_size_distribution()
mixture_size_statistics()
LibraryBinaryNumeric
parameters_default : dict
sens_mat : NoneType
choose_sensitivity_matrix()
create_test_instance()
get_random_arguments()
get_steps()
mixture_entropy()
mixture_entropy_brute_force()
mixture_entropy_monte_carlo()
mixture_statistics()
mixture_statistics_brute_force()
mixture_statistics_estimate()
mixture_statistics_monte_carlo()
mutual_information()
mutual_information_brute_force()
mutual_information_estimate()
mutual_information_monte_carlo_extrapolate()
optimize_library()
optimize_library_anneal()
optimize_library_descent()
optimize_library_descent_multiple()
receptor_activity()
receptor_activity_brute_force()
receptor_activity_estimate()
receptor_crosstalk()
receptor_crosstalk_estimate()
receptor_score()
sort_sensitivity_matrix()
LibraryExponentialLogNormal
init_arguments
mean_sensitivity : int
repr_params
sens_mat_distribution
width : float
get_optimal_library()
get_optimal_sigma()
get_optimal_typical_sensitivity()
get_random_arguments()
mutual_information()
receptor_activity()
receptor_activity_estimate()
LibraryExponentialNumeric
parameters_default : dict
sens_mat
choose_sensitivity_matrix()
create_test_instance()
mutual_information()
receptor_activity()
LibraryGaussianNumeric
parameters_default : dict
sens_mat
choose_sensitivity_matrix()
concentration_statistics()
concentration_statistics_estimate()
create_test_instance()
optimize_library()
LibraryBinaryUniform
density : int
init_arguments
repr_params
density_optimal()
get_optimal_library()
get_random_arguments()
mutual_information()
receptor_activity()
receptor_crosstalk()
LibrarySparseBase
c_means
c_means : NoneType
c_vars
c_vars
concentration_distributions : list
concentration_means
is_homogeneous_mixture
parameters_default : dict
repr_params
choose_concentrations()
concentration_statistics()
get_concentration_distribution()
get_random_arguments()
LibrarySparseNumeric
monte_carlo_steps
parameters_default : dict
sens_mat
choose_sensitivity_matrix()
concentration_statistics_estimate()
create_test_instance()
mutual_information_estimate_fast()
optimize_library()
LibrarySparseTheoryBase
excitation_statistics()
mutual_information()
receptor_activity()
receptor_crosstalk()
sensitivity_stats()
set_optimal_parameters()
LibrarySparseBinary
density
init_arguments
mean_sensitivity : int
repr_params
standard_deviation
density_optimal()
get_optimal_library()
get_random_arguments()
sensitivity_stats()
LibrarySparseLogUniform
init_arguments
mean_sensitivity : int
repr_params
sensitivity_distribution
width : int
get_optimal_library()
get_random_arguments()
sensitivity_stats()
LibrarySparseLogNormal
correlation : int
init_arguments
mean_sensitivity : int
repr_params
sensitivity_distribution
standard_deviation
variance
width
activity_distance_mixtures()
get_optimal_library()
get_optimal_parameters()
get_random_arguments()
sensitivity_stats()
AdaptiveThresholdMixin
parameters_default : dict
repr_params
threshold_factor
excitation_threshold_statistics()
get_random_arguments()
PrimacyCodingMixin
coding_receptors
mutual_information_max
parameters_default : dict
repr_params
get_random_arguments()
AdaptiveThresholdNumeric
activation_pattern_for_mixture()
mutual_information_monte_carlo()
receptor_activity_estimate()
receptor_activity_monte_carlo()
receptor_crosstalk_estimate()
AdaptiveThresholdTheory
parameters_default : dict
activity_distance_uncorrelated()
excitation_distribution()
excitation_threshold()
get_optimal_parameters()
mutual_information()
receptor_activity()
receptor_crosstalk()
PrimacyCodingNumeric
activation_pattern_for_mixture()
excitation_threshold_monte_carlo()
mutual_information_estimate_fast()
mutual_information_monte_carlo()
receptor_activity_estimate()
receptor_activity_monte_carlo()
receptor_crosstalk_estimate()
PrimacyCodingTheory
parameters_default : dict
activity_distance_mixtures()
activity_distance_target_background()
activity_distance_target_background_approx_small()
activity_distance_uncorrelated()
en_order_statistics_approx()
en_order_statistics_integrate()
excitation_distribution()
excitation_threshold()
get_optimal_parameters()
mutual_information()
receptor_activity()
receptor_crosstalk()
LibraryLogNormal
correlation : int
mean_sensitivity : int
mixture
sensitivity_distribution
standard_deviation
width
get_optimal_library()
get_optimal_parameters()
sensitivity_stats()
ReceptorOptimizerAnnealer
Tmax
Tmin
copy_strategy : str
direction : str
info : dict, NoneType
model
steps : int
target_func
updates : int
updates : int
values_step : int
energy()
move()
optimize()
TargetClass
model
target_function
evaluate()
initialize()