Table of Contents

	1
Data generation	1
DNA simulation	1
Wanderlust all combinations	2
Best and worse datapoints with DNA	2
Dual combination plot	3
Results	3
<pre>function M2M_report(m2m_result)</pre>	
%UNTITLED3 Summary of this function goes here % Detailed explanation goes here	

Data generation

```
mydata = m2m_result.data_gen.mydata;
mydata = M2M_purge(mydata);
errordata = m2m_result.data_gen.errordata;
statenames = m2m_result.data_gen.statenames;
for i = 1:size(mydata,1)
    rect = [20 20 1024 768];
    fh = figure('Color','w','Position',rect);
    figure(fh)
    grid on
    scatter(mydata(28,:),mydata(i,:))
    scatter(errordata(28,:),errordata(i,:))
    title(statenames(i))
    xlabel(statenames(28))
    ylabel(statenames(i))
end
Not enough input arguments.
Error in M2M_report (line 6)
mydata = m2m_result.data_gen.mydata;
```

DNA simulation

```
MYDATA = m2m_result.data_gen.MYDATA;
ip = [1,2,3,4,5,6,7,11,12];
a = floor(size(ip,2)^(1/2));
b = ceil(size(ip,2)/a);
sum=0;
rect = [20 20 1024 768];
```

```
fig_dna = figure('Color','w','Position',rect);
figure(fig dna)
while(sum <size(ip,2))</pre>
    for i = ip
           sum = sum + 1;
           hold on
           grid on
           yyaxis left
           subplot(b,a,sum)
           scatter(MYDATA(33,:),normdata(MYDATA(i,:)));
           legend(statenames(i))
           title('DNA duplication')
           xlabel('Time [h]')
           ylabel('Concentration (a.u.)')
           yyaxis right
           scatter(MYDATA(33,:),MYDATA(32,:),'*')
           ylabel('DNA')
           axis([0 max(MYDATA(end,:))+1 1.5 4.5])
    end
end
```

Wanderlust all combinations

end end

Best and worse datapoints with DNA

```
y=m2m_result.analysis.new_functions.y;
for i = 1:27
plot(y(i,:))
hold on
end
legend(name([1:27]))
```

Dual combination plot

```
for i=1
    figure(i)
    plot(y(m2m_result.analysis.two_combi.combi_store{1,i}.best(1),:))
    hold on
    plot(y(m2m_result.analysis.two_combi.combi_store{1,i}.best(2),:))
    hold on
    plot(m2m_result.analysis.two_combi.combi_store{1,i}.y_previous)
end
```

Results

```
np_struct=([]);
np_problem=cell(size(m2m_result.analysis.np_problem.BEST,2),1);
for i = 1:size(m2m_result.analysis.np_problem.BEST,2)
dual_combination=m2m_result.analysis.two_combi.combi_store{1,i}.best;
   dual_area=m2m_result.analysis.two_combi.combi_store{1,i}.area;
    np_struct.dual_combination=dual_combination;
   np_struct.dual_area=dual_area;
   np_combination = [m2m_result.analysis.np_problem.BEST{1,i}{:,2}];
   np_area = [m2m_result.analysis.np_problem.BEST{1,i}{:,5}];
   np_struct.np_combination=np_combination;
   np_struct.np_area=np_area';
   np_problem{i}=np_struct;
end
for i =1:2
   bar_data(:,i)=np_problem{i,1}.np_area;
% bar(np_struct.np_area)
% bar3(np_struct.np_area)
```

Published with MATLAB® R2017a