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% This script takes the fitting results from a1_modelFitting.m and plots
% the distribution of fitted parameters (as we fitted 100 times for each
% session, each subject)

clear all; clc;

load("a1_modelFittingResults_v5.mat")

all_sub = 1;
all_ses = 1:9;

for sub = all_sub

    f1 = figure; set(gcf, 'Position', get(0, 'Screensize'));
    sgttitle(['sub' num2str(sub)])

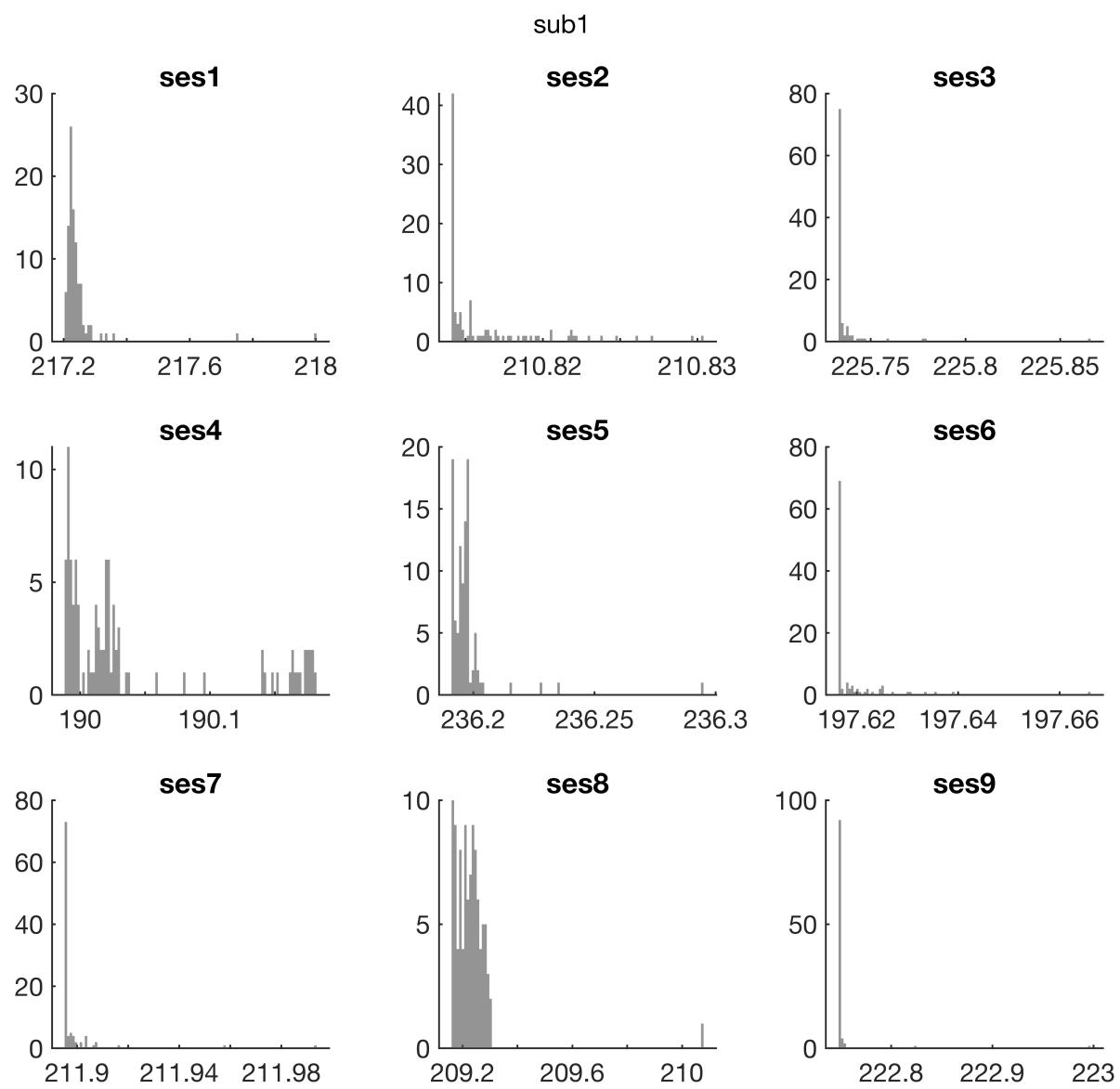
    for ses = all_ses

        % plot nLL on the same figure
        figure(f1);
        subplot(3,3,ses); hold on
        set(gca, 'LineWidth', 1, 'FontSize', 15)
        h = histogram(model(sub, ses).minNLL, 100);
        h.FaceColor = repmat(0.3, 1, 3); h.EdgeColor = 'none';
        title(['ses' num2str(ses)])

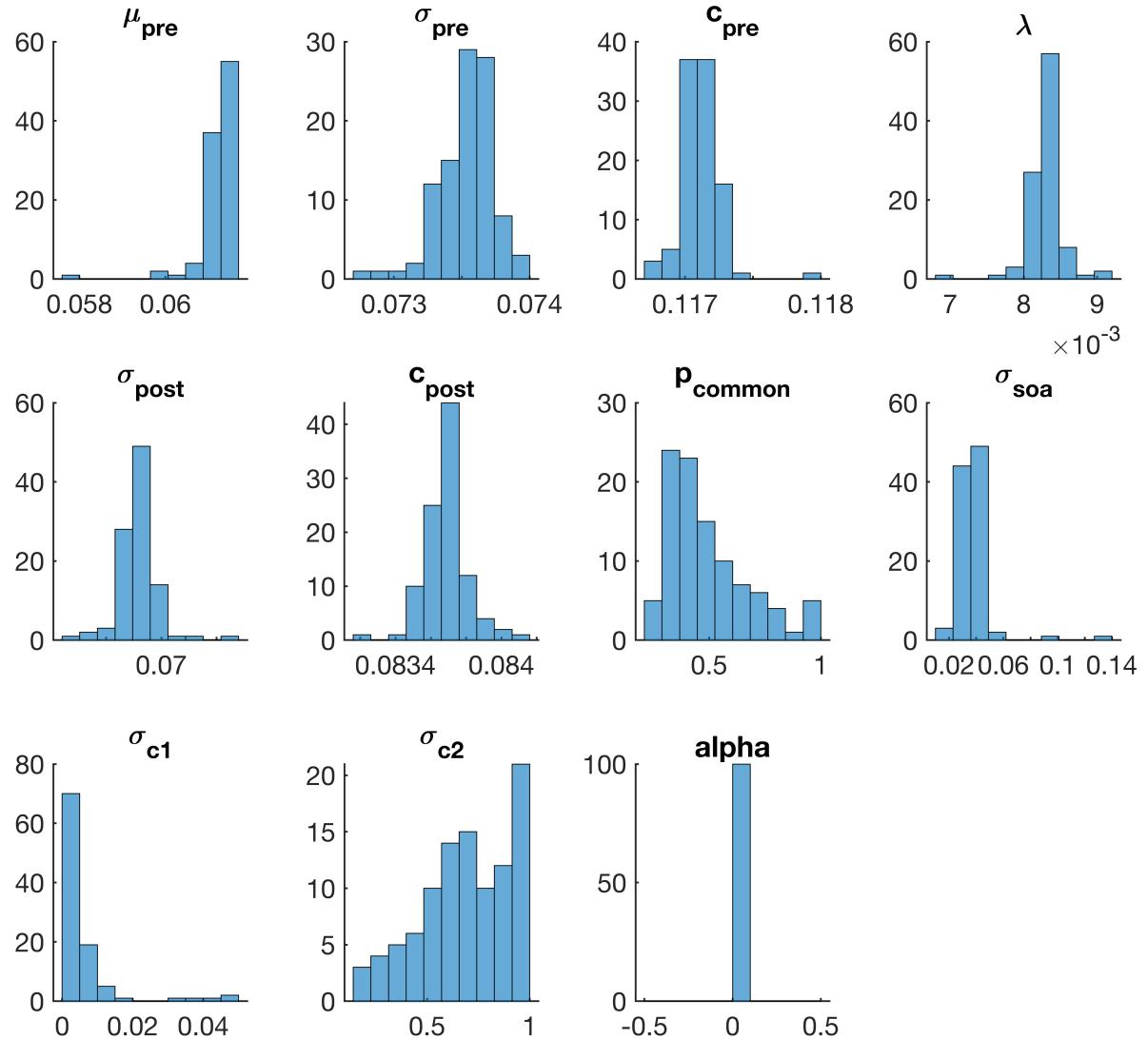
        % plot parameter distribution
        f2 = figure; hold on; set(gcf, 'Position', get(0, 'Screensize'));
        sgttitle(['sub' num2str(sub) 'ses' num2str(ses)])

        for i = 1:model(sub, ses).numPara
            figure(f2); subplot(3,4,i); hold on;
            set(gca, 'LineWidth', 1, 'FontSize', 15)
            histogram(model(sub, ses).estimatedP(:,i), 10)
            title(model(sub, ses).paraID{i})
        end
    end
end

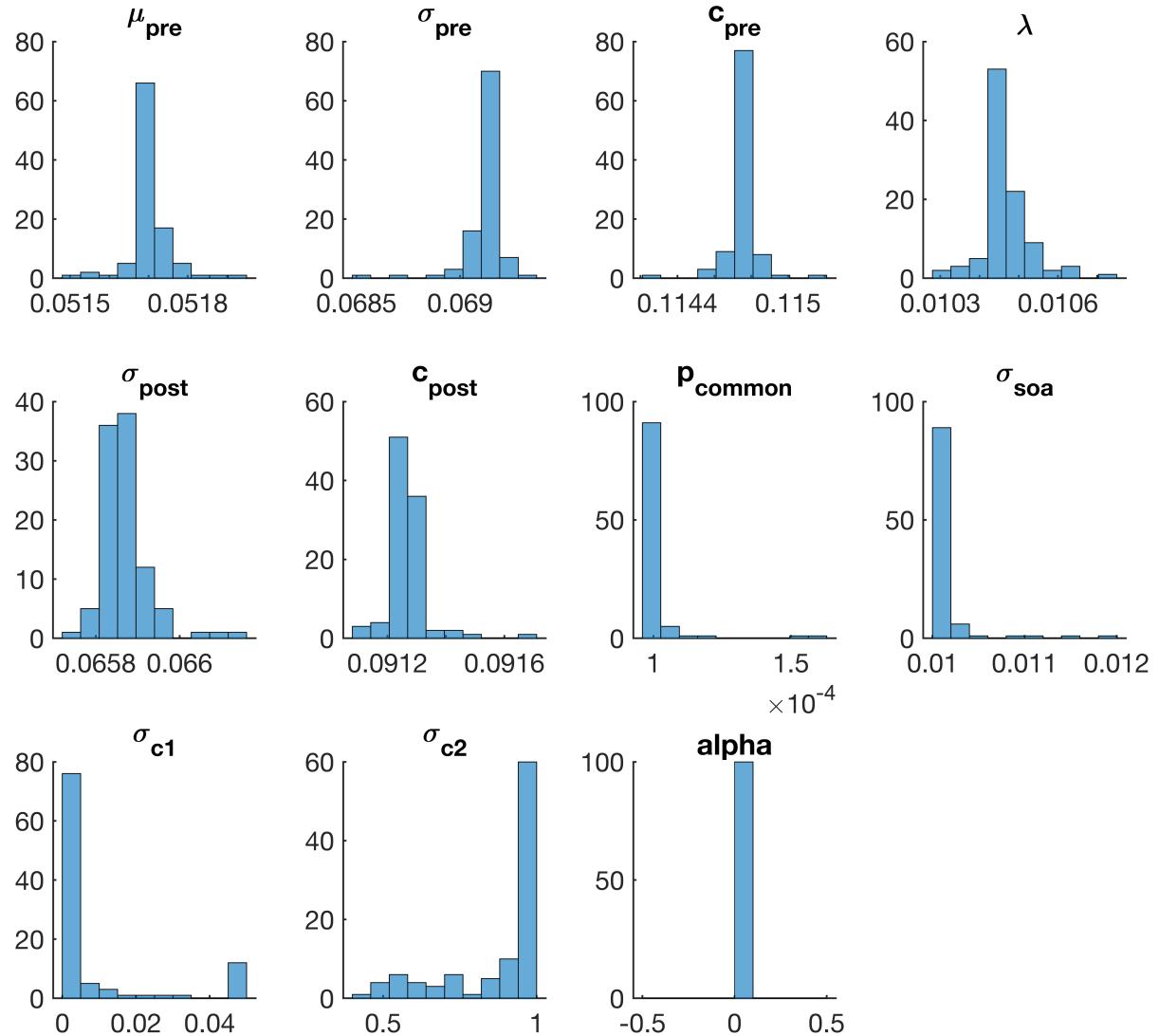
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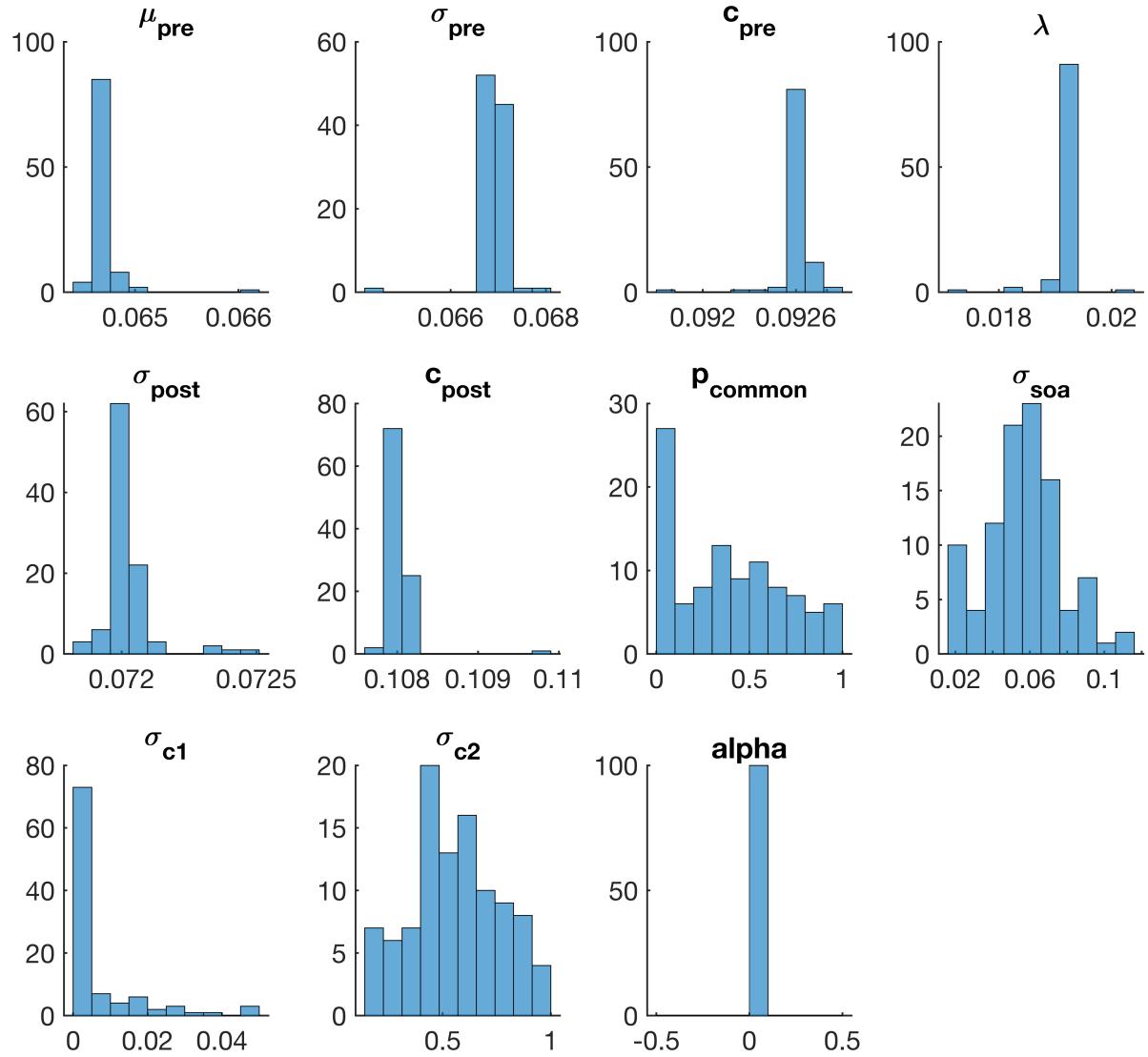
sub1ses1



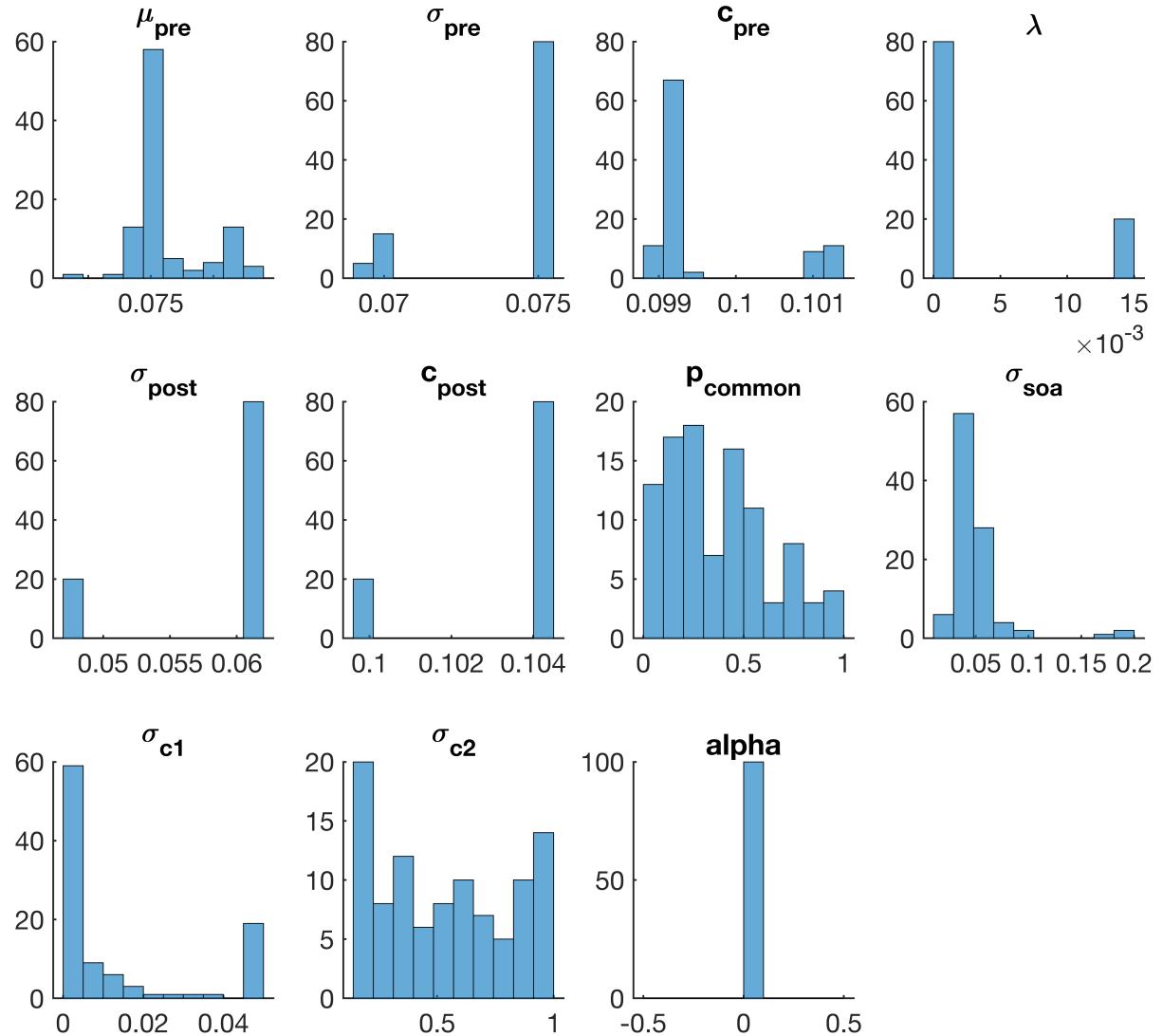
sub1ses2



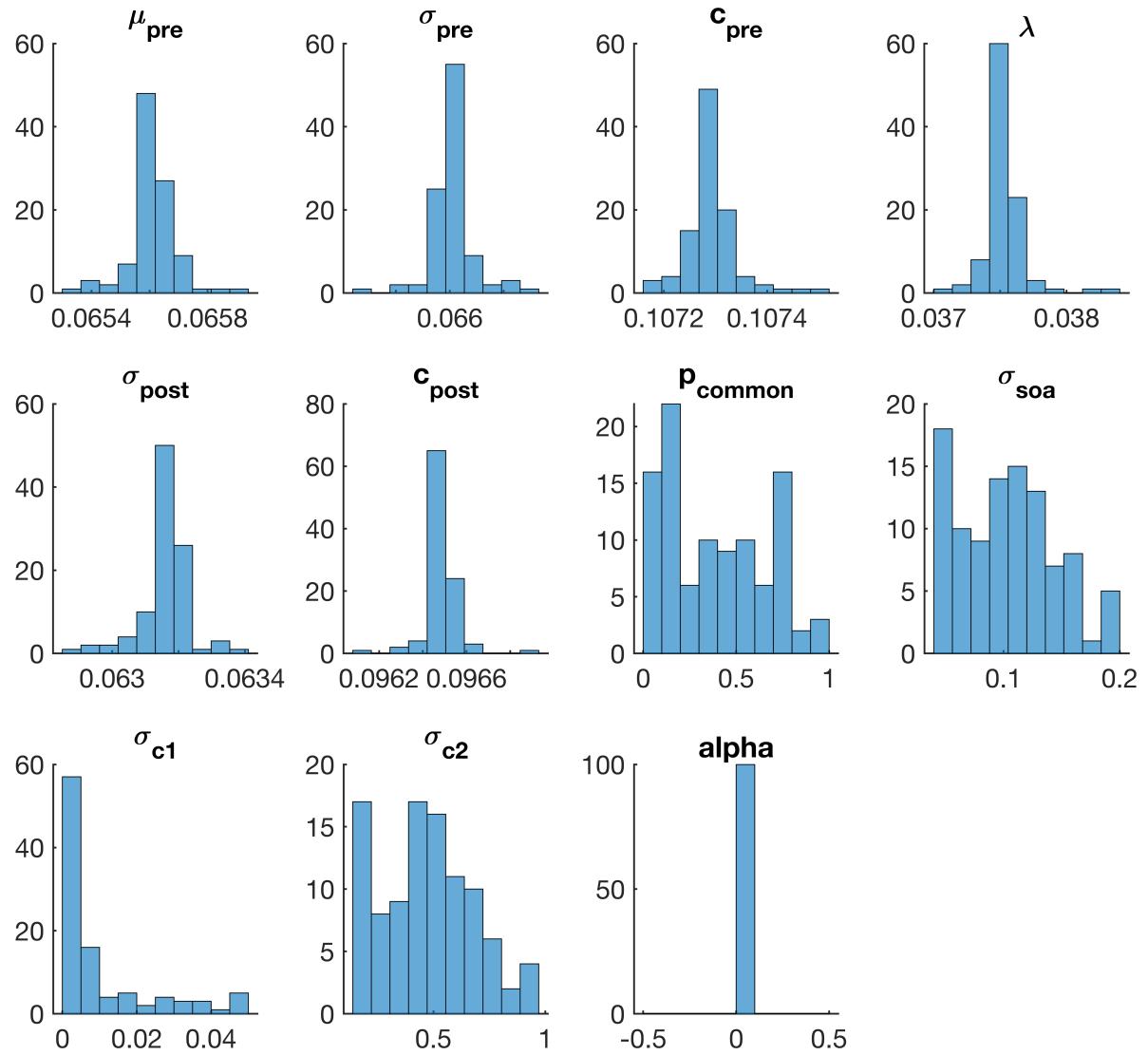
sub1ses3



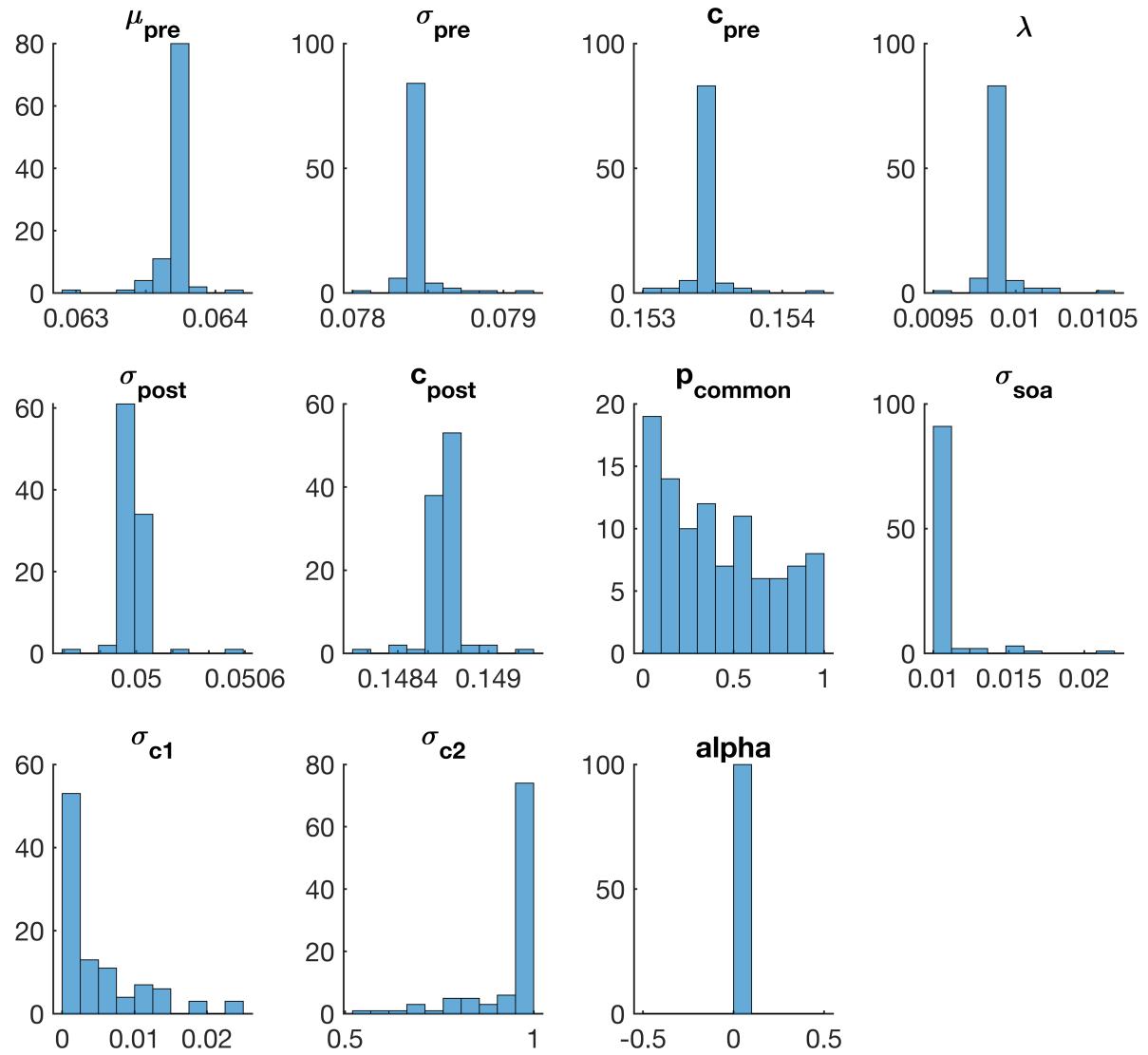
sub1ses4



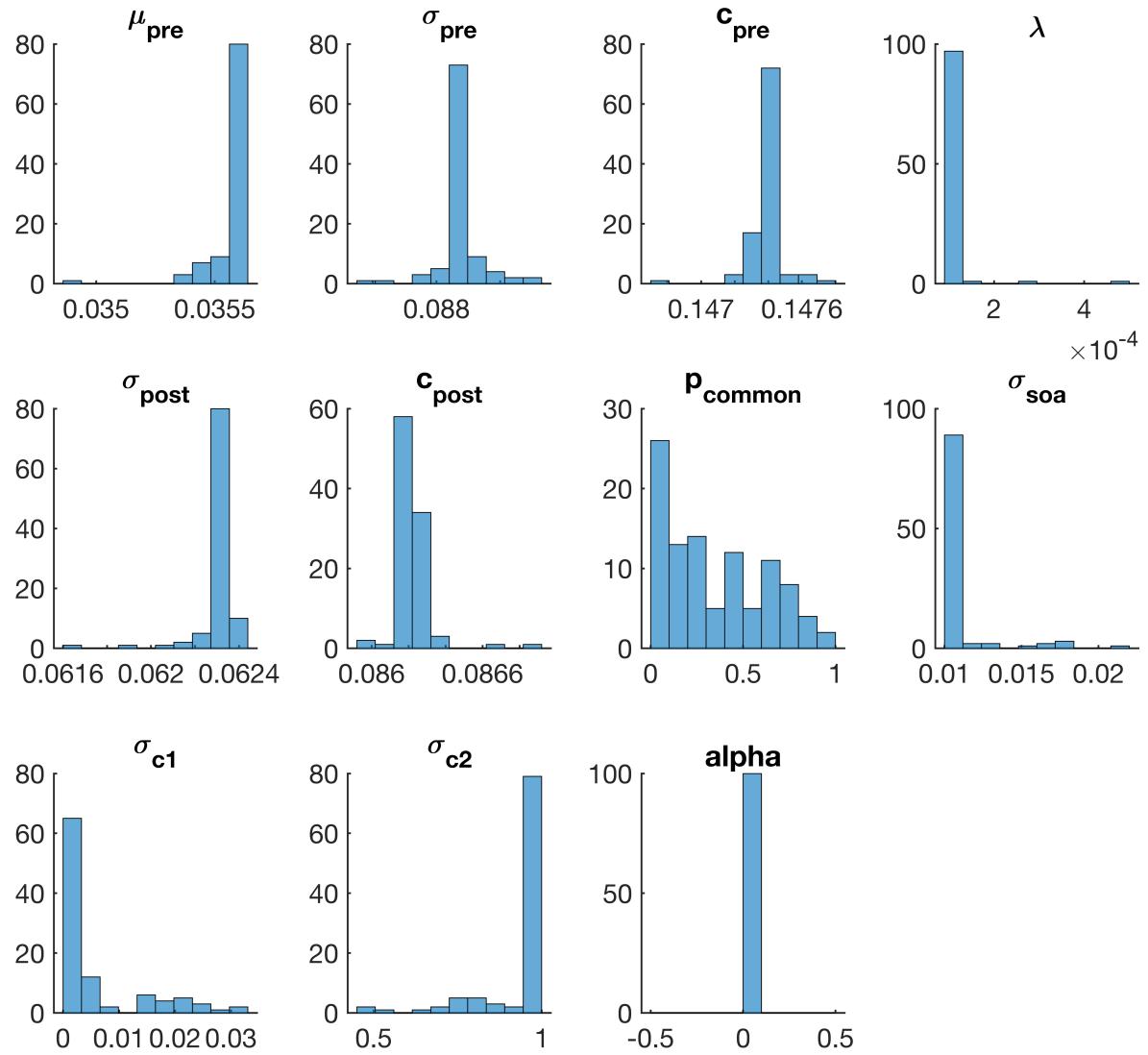
sub1ses5



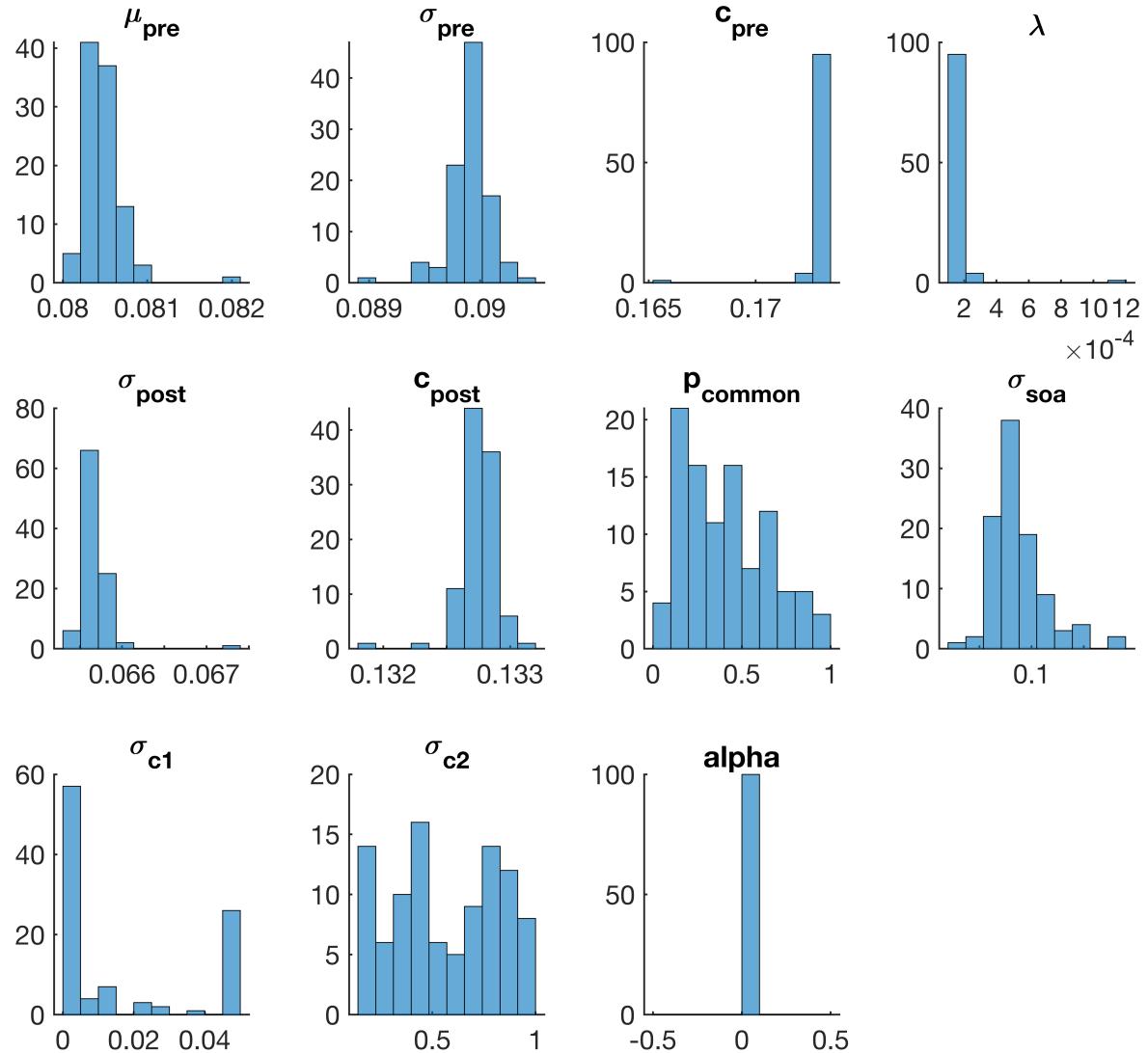
sub1ses6

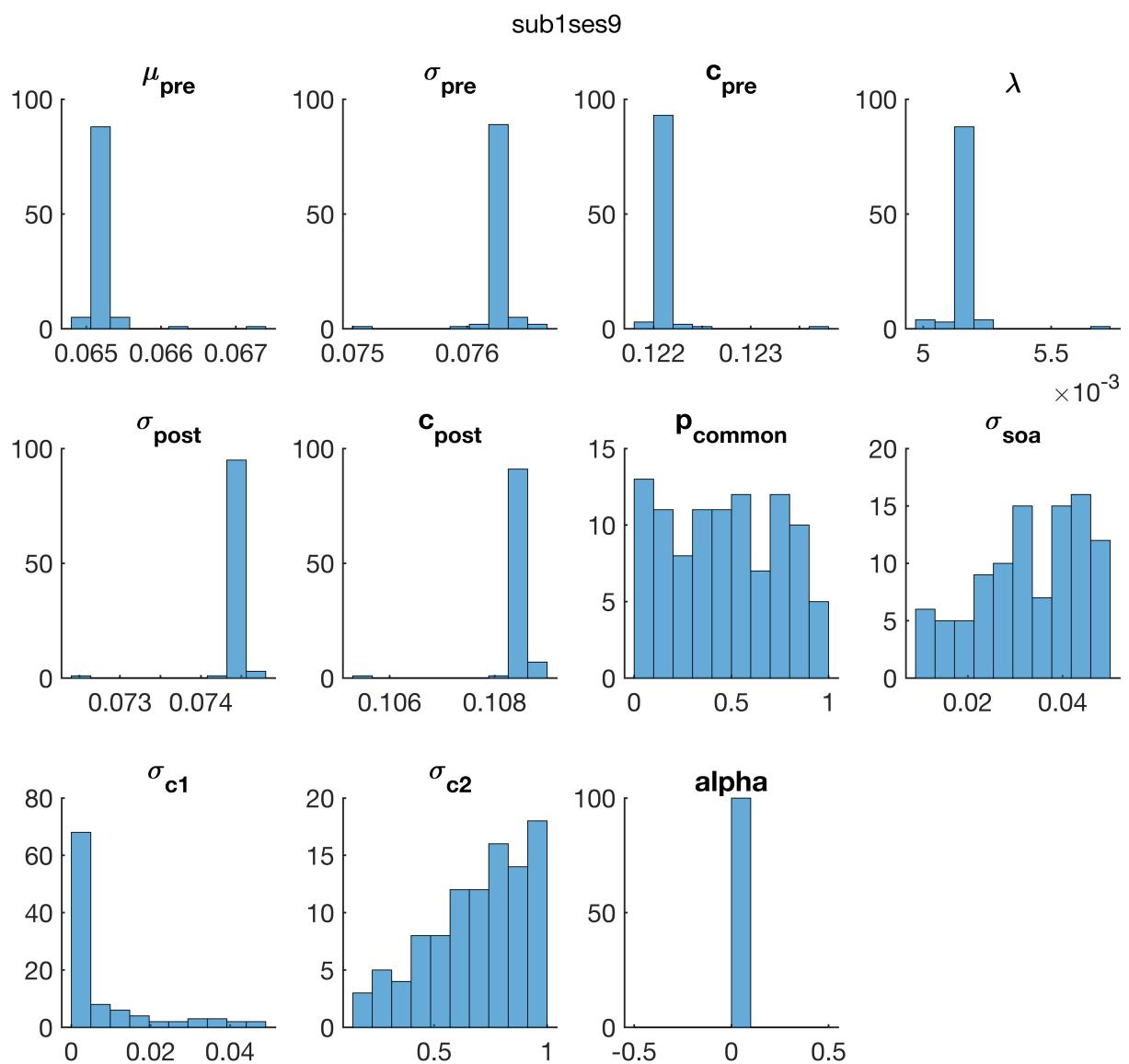


sub1ses7



sub1ses8





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clear all; clc;

load("a1_modelFittingResults_v6.mat")

all_sub = 1;
all_ses = 1:9;

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for sub = all_sub

f1 = figure; set(gcf, 'Position', get(0, 'Screensize'));
sgtitle(['sub' num2str(sub)])

for ses = all_ses

    % plot nLL on the same figure
    figure(f1);
    subplot(3,3,ses); hold on
    set(gca, 'LineWidth', 1, 'FontSize', 15)
    h = histogram(model(sub, ses).minNLL, 100);
    h.FaceColor = repmat(0.3, 1, 3); h.EdgeColor = 'none';
    title(['ses' num2str(ses)])

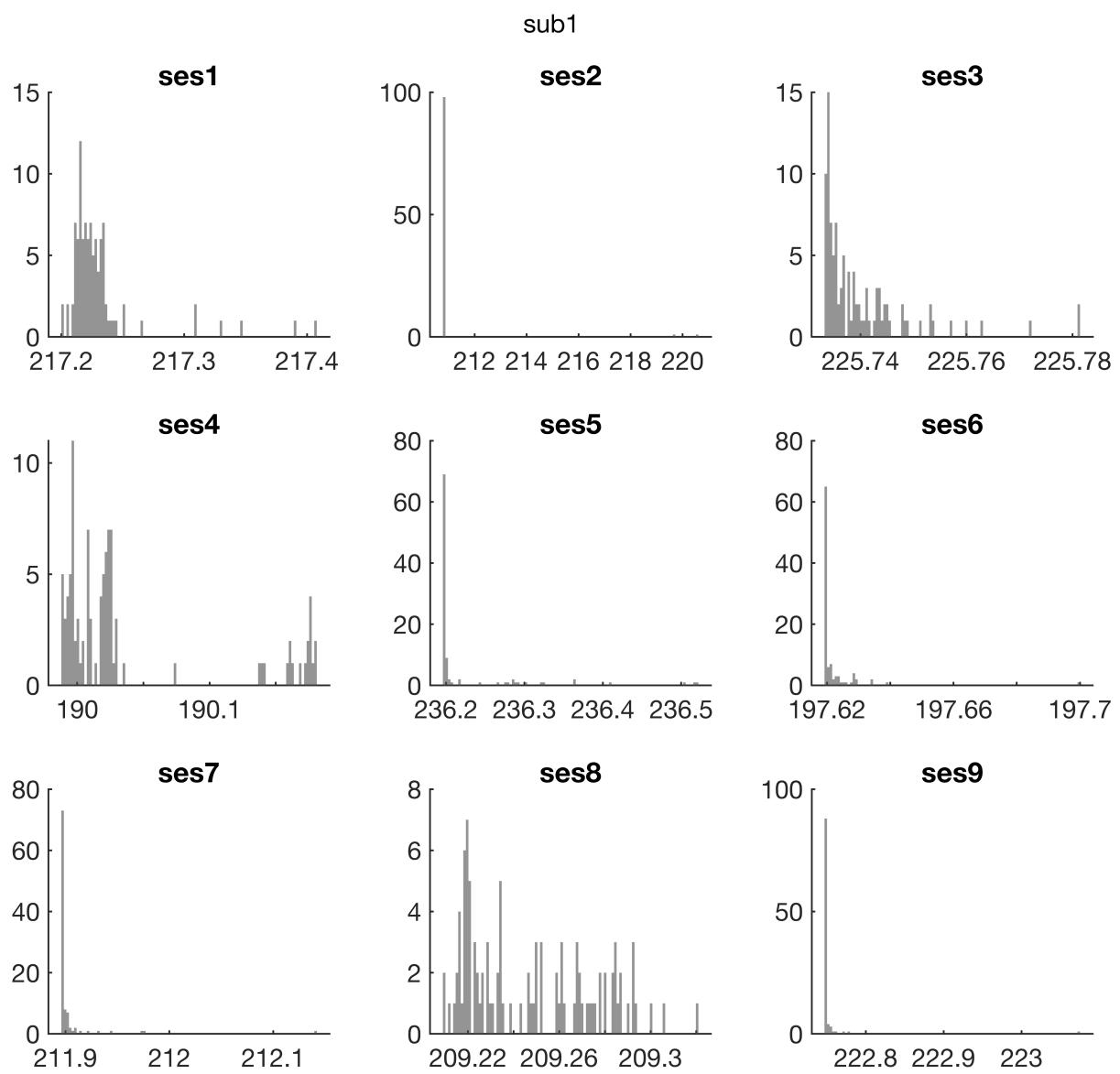
    % plot parameter distribution
    f2 = figure; hold on; set(gcf, 'Position', get(0, 'Screensize'));
    sgtitle(['sub' num2str(sub) 'ses' num2str(ses)])

    for i = 1:model(sub, ses).numPara
        figure(f2); subplot(3,4,i); hold on;
        set(gca, 'LineWidth', 1, 'FontSize', 15)
        histogram(model(sub, ses).estimatedP(:,i), 10)
        title(model(sub, ses).paraID{i})
    end

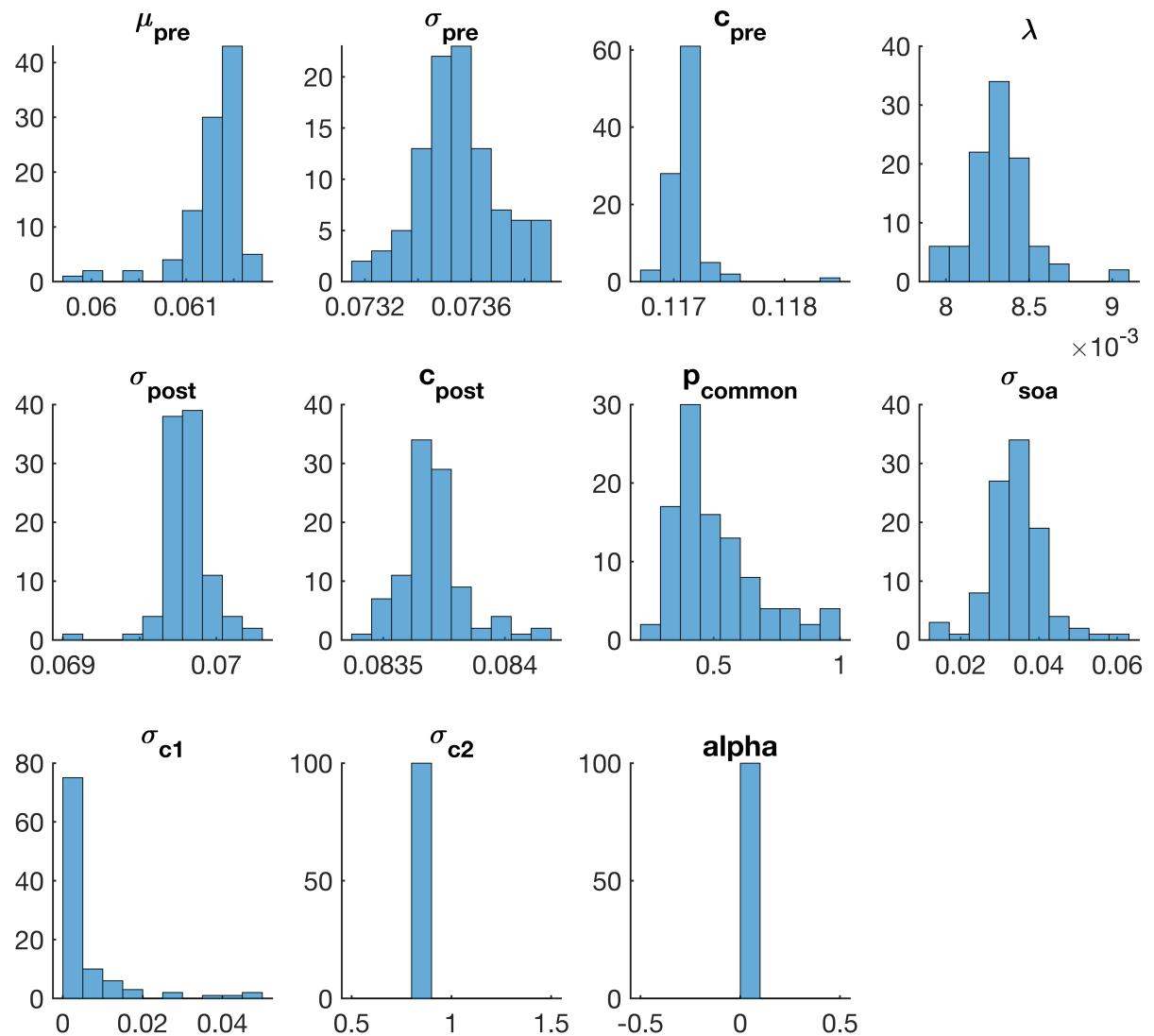
end

end

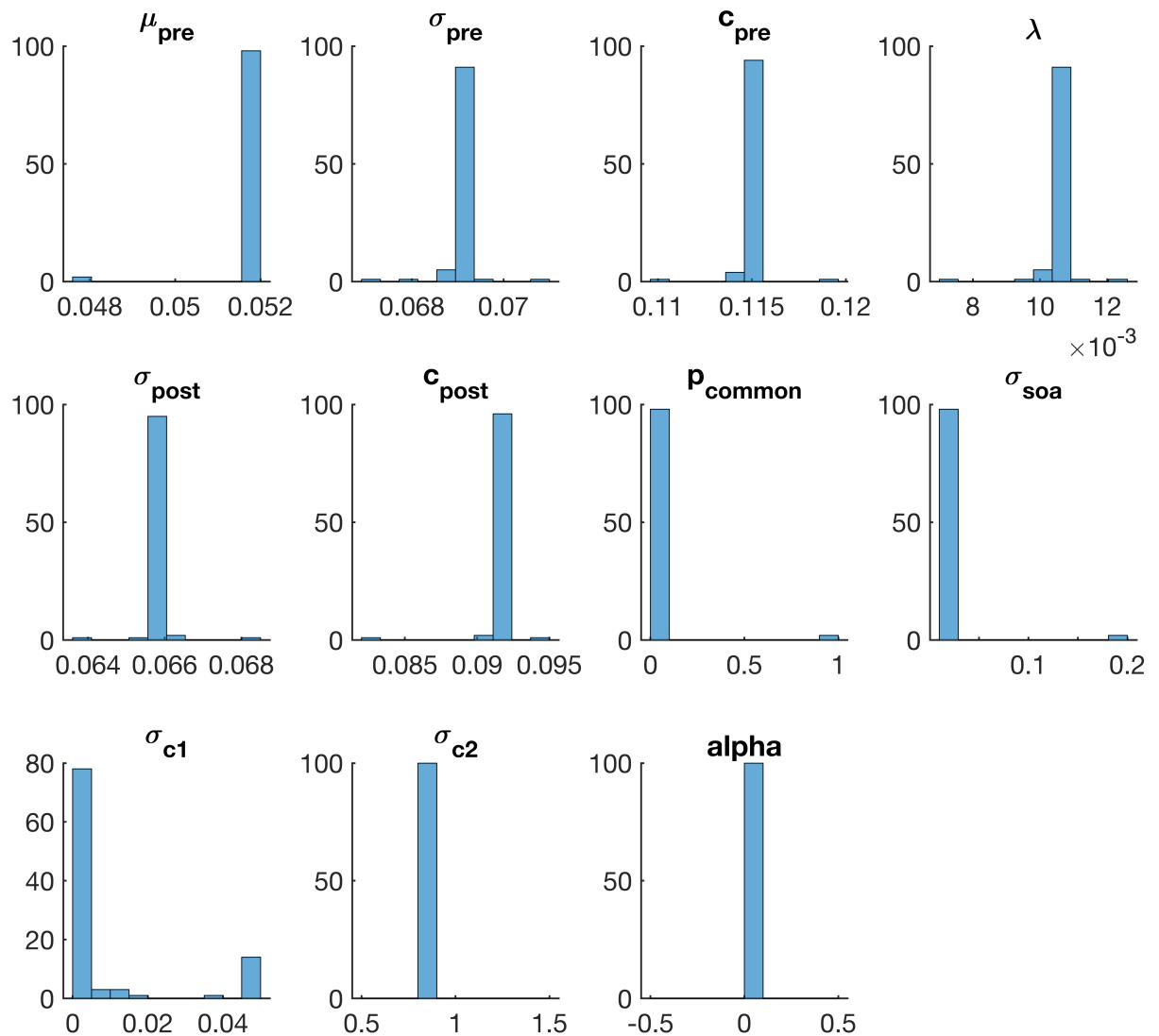
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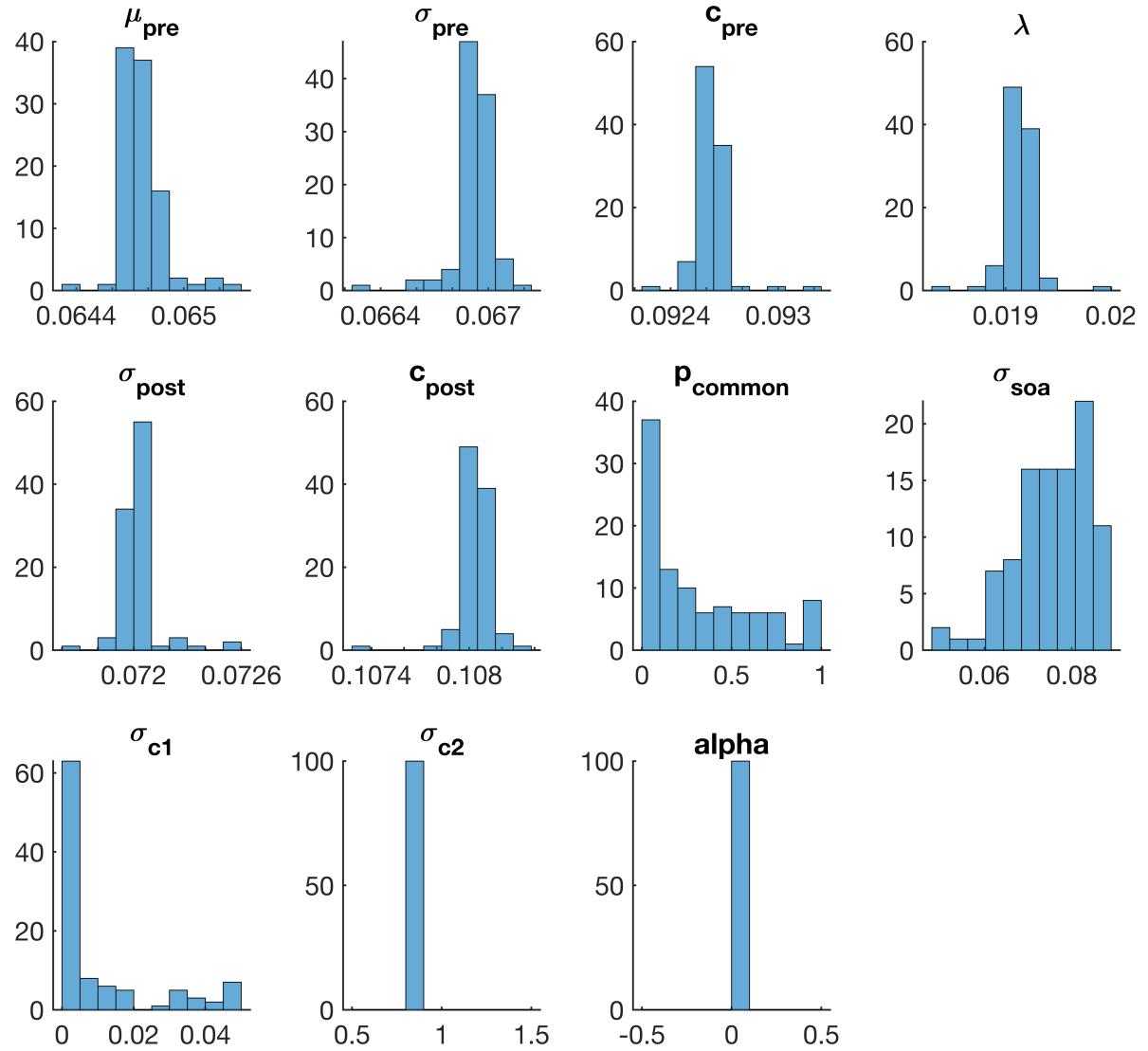
sub1ses1



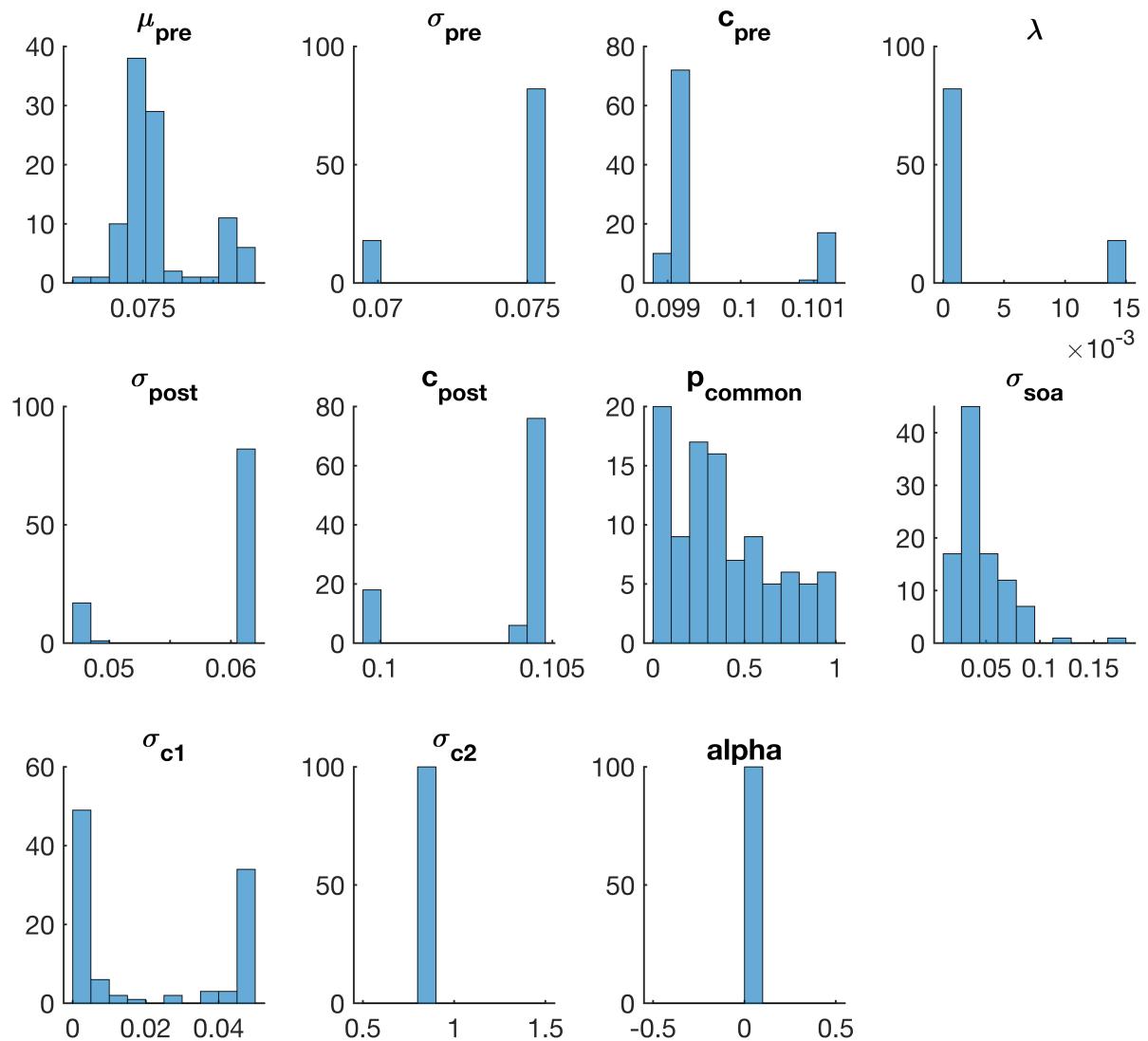
sub1ses2



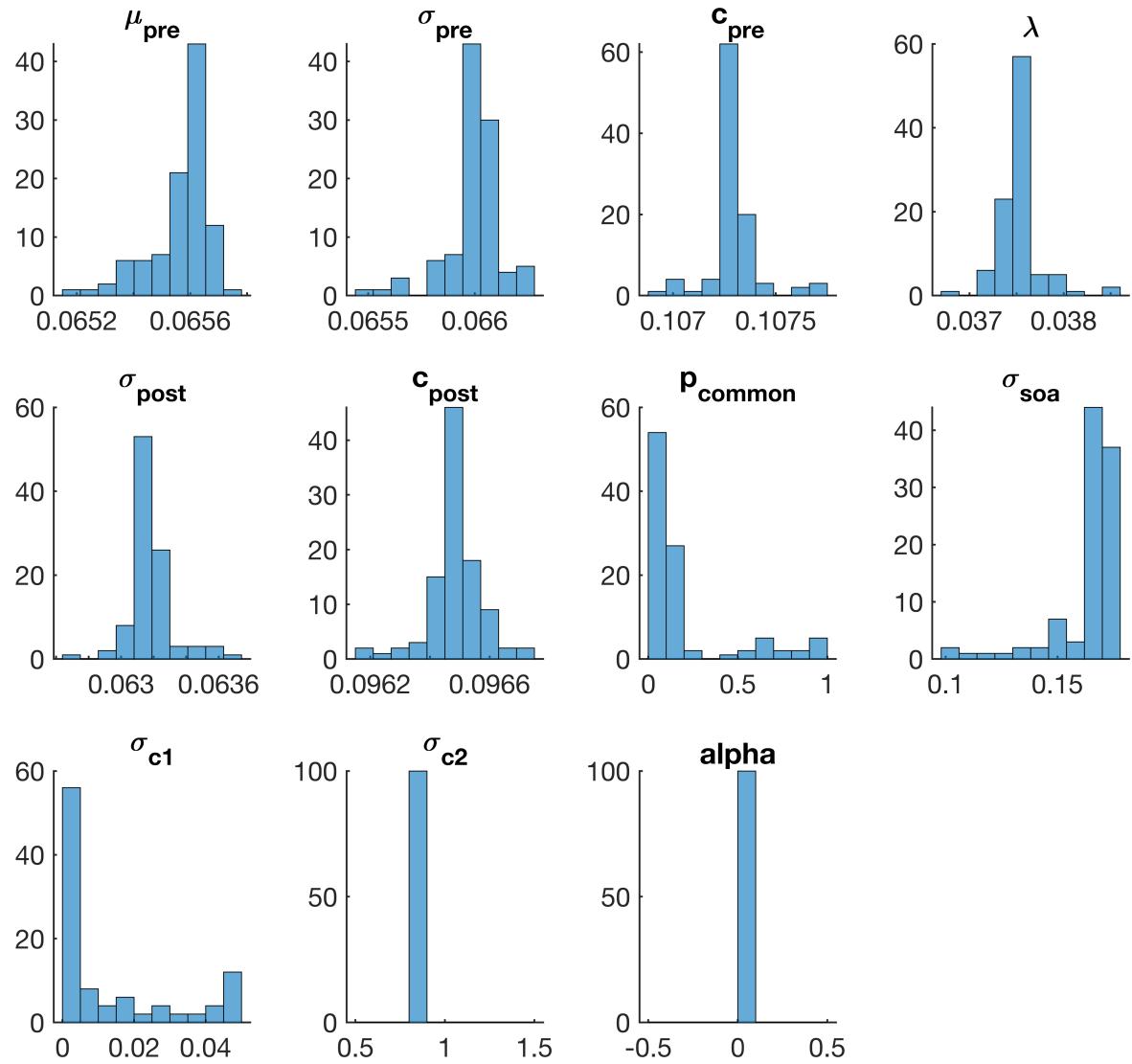
sub1ses3



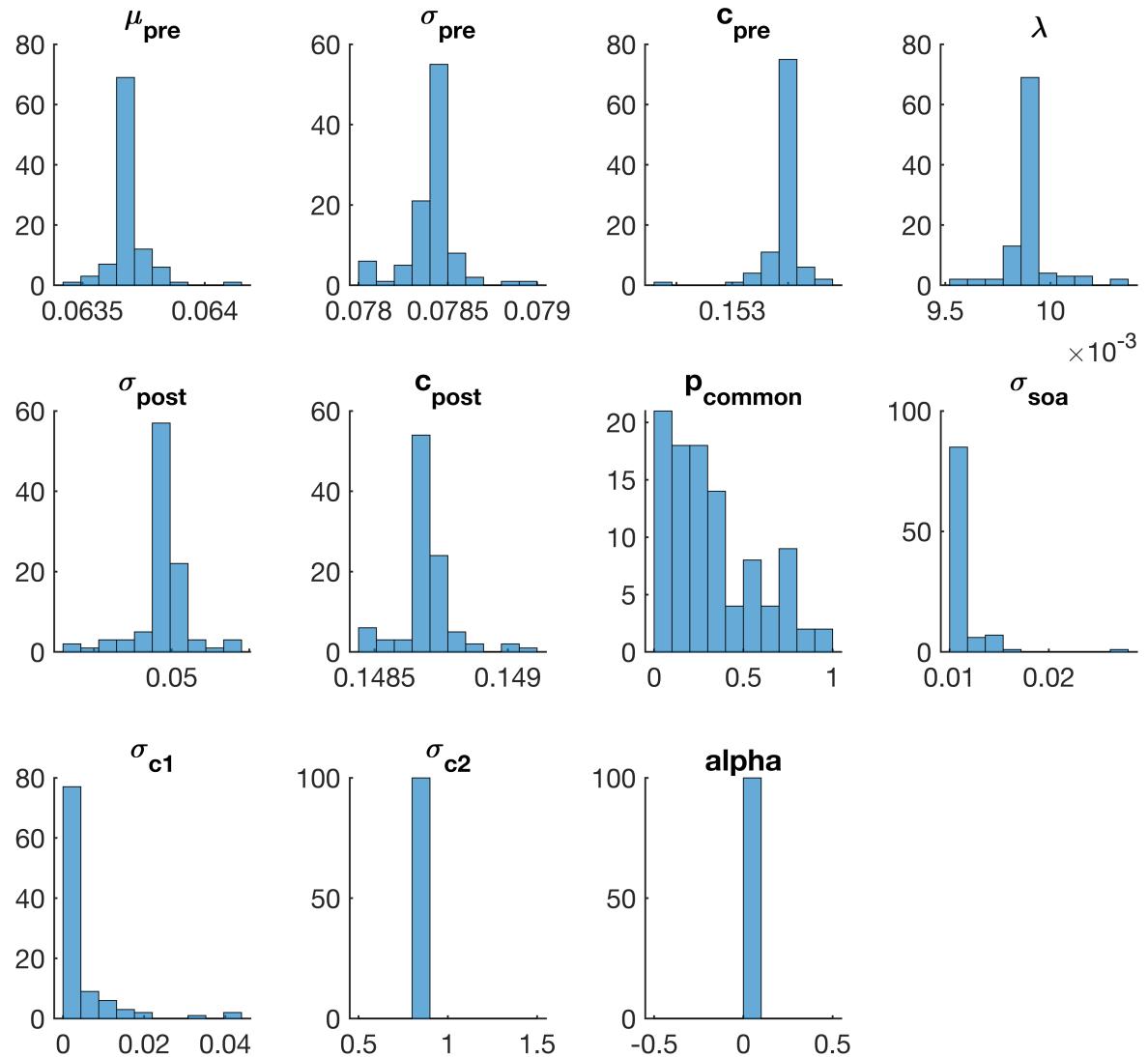
sub1ses4



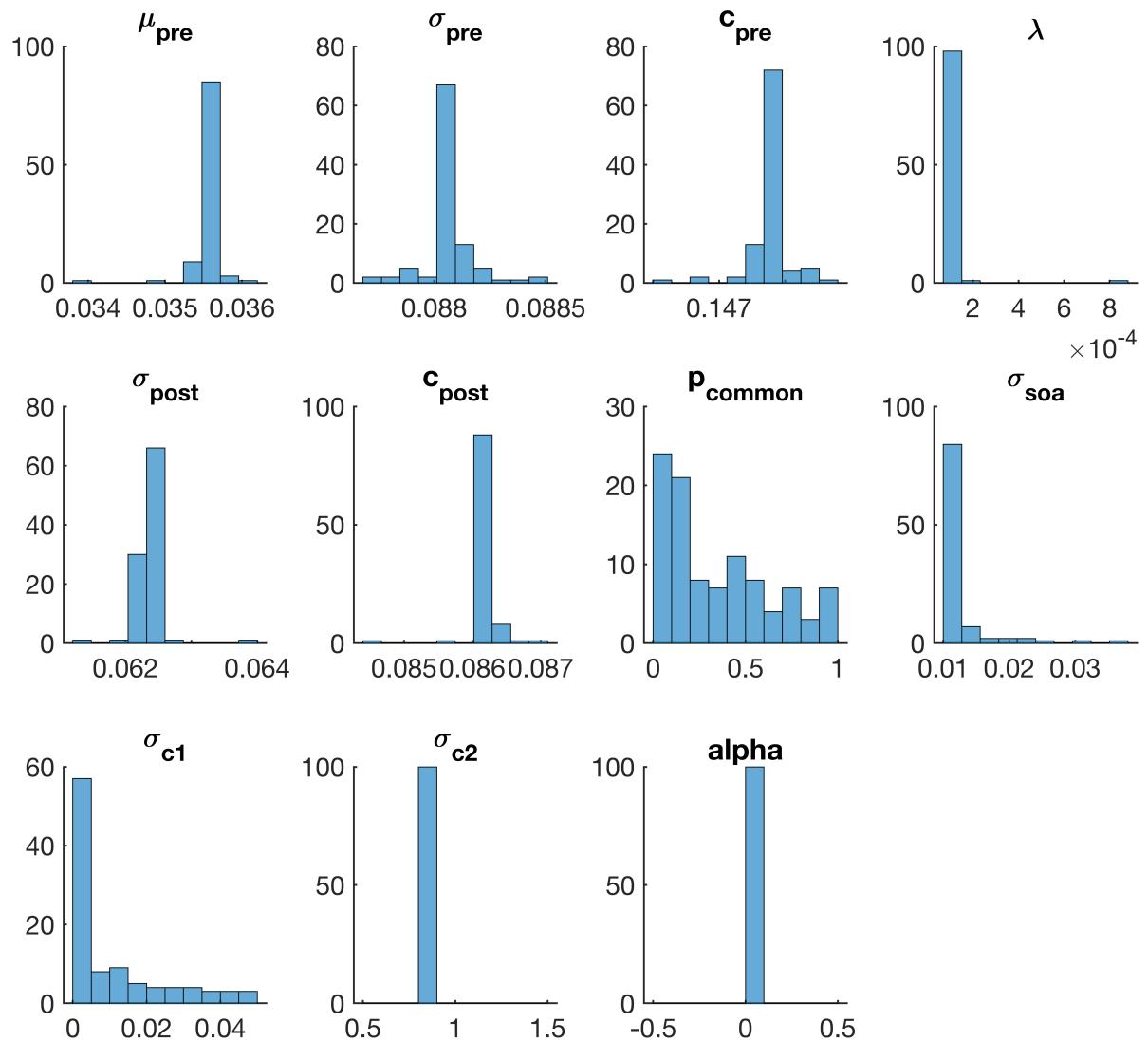
sub1ses5



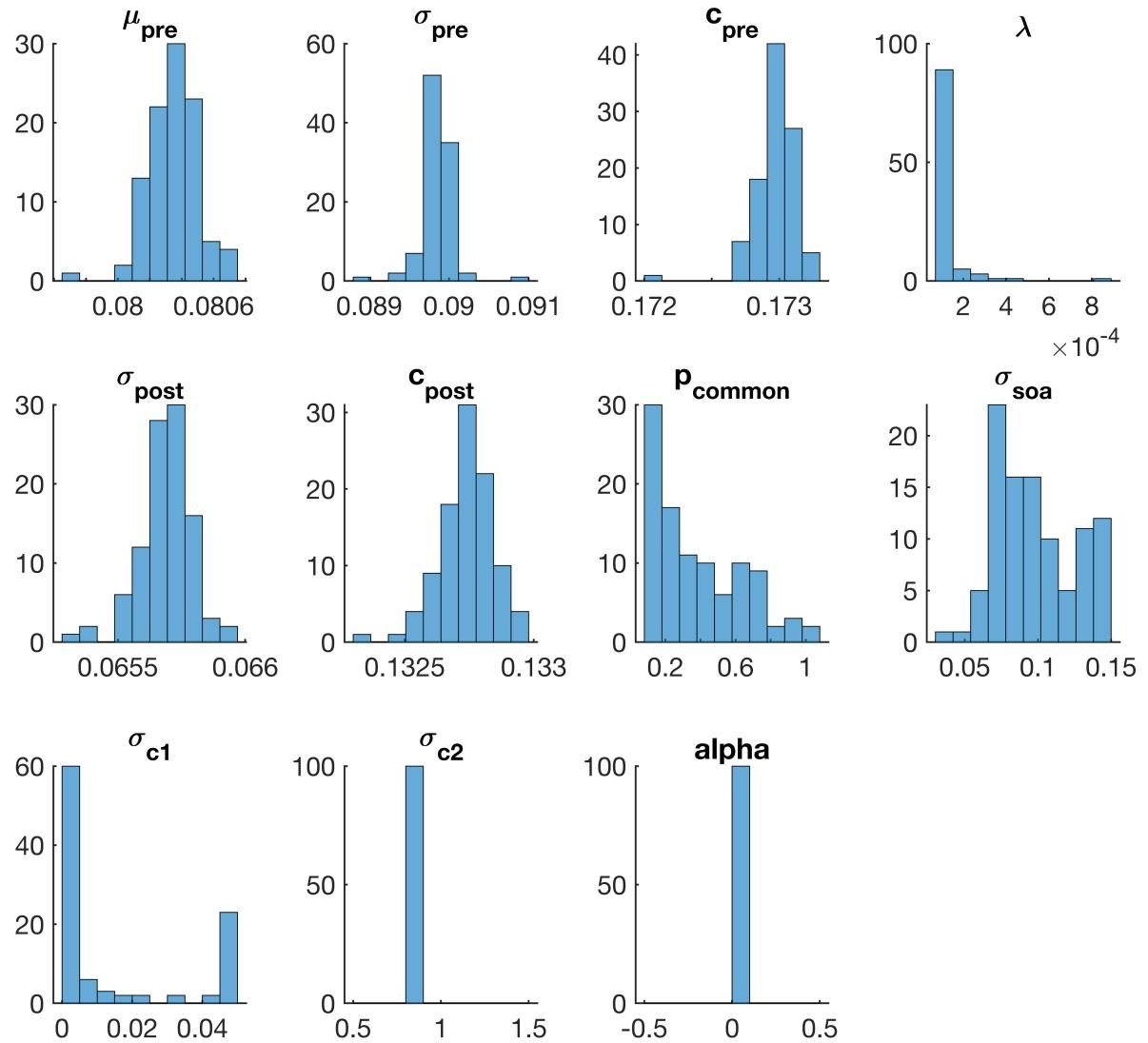
sub1ses6



sub1ses7



sub1ses8



sub1ses9

