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# Epistress Score

Dexamethasone-Stimulated Human Array Project

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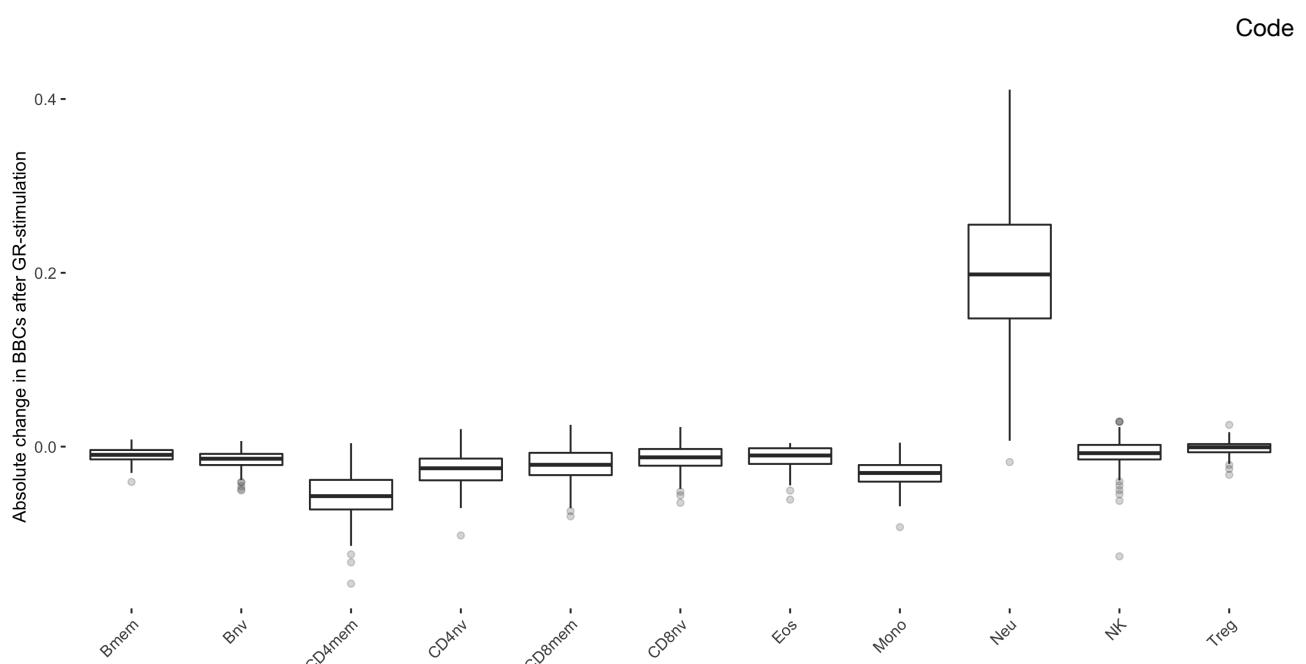
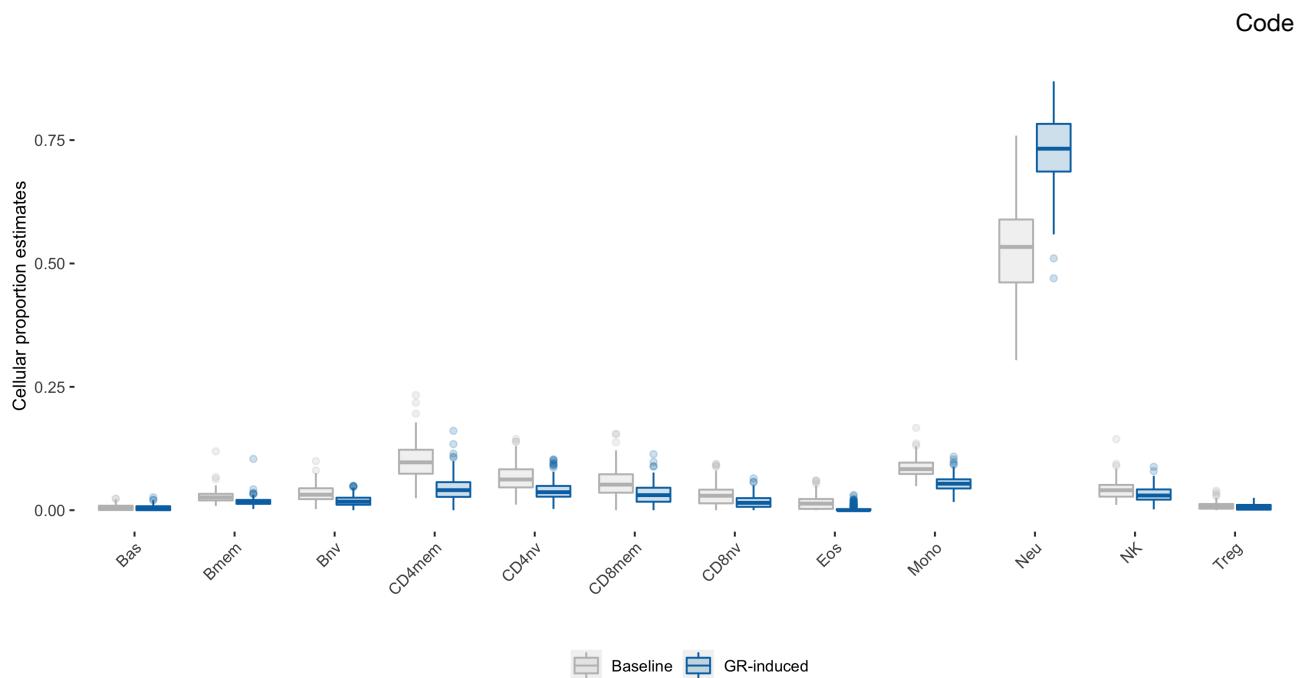
## Introduction

### Data:

- **Baseline Epistress Score:** Epistress Score was calculated using 23 CpG from EPIC DNAm data which were obtained at baseline
- **GR-induced Epistress Score:** Epistress Score was calculated using 23 CpG from EPIC DNAm data which were obtained 3 hr after stimulation with dexamethasone

- **Delta Epistress Score:** Epistress Score was calculated using 23 CpG from EPIC DNAm data which were obtained using residuals from linear regression models for baseline DNAm and GR-induced DNAm
- **Baseline BBCs:** cellular proportion estimates using EPIC DNAm data which were obtained at baseline and *EpiDISH* R-package and the reference dataset of 12 cell types (neutrophils, eosinophils, basophils, monocytes, naïve and memory B cells, naïve and memory CD4T and CD8T cells, natural killer, and T regulatory cells) from Salas et. al 2022 publication
- **GR-induced BBCs:** cellular proportion estimates using EPIC DNAm data which were obtained 3 hr after stimulation with dexamethasone
- **absolute delta BBCs:** the absolute difference between baseline BBCs and GR-induced BBCs
- **relative delta BBCs:** the relative difference between baseline BBCs and GR-induced BBCs calculated as  $\text{abs}(GR - \text{baseline})/\max(GR, \text{baseline})$

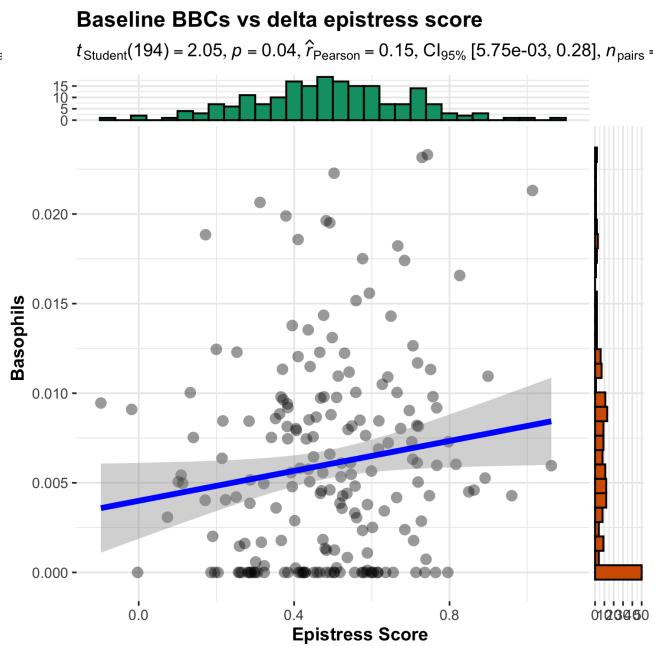
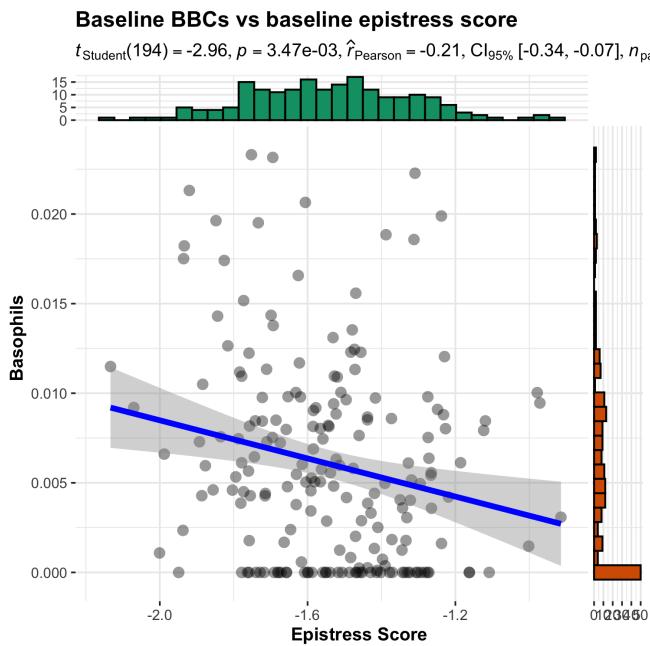
## Blood cell estimates



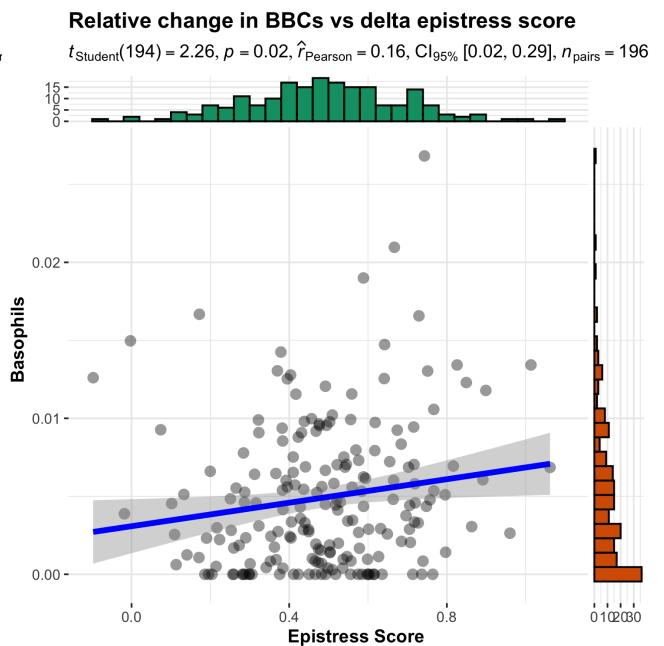
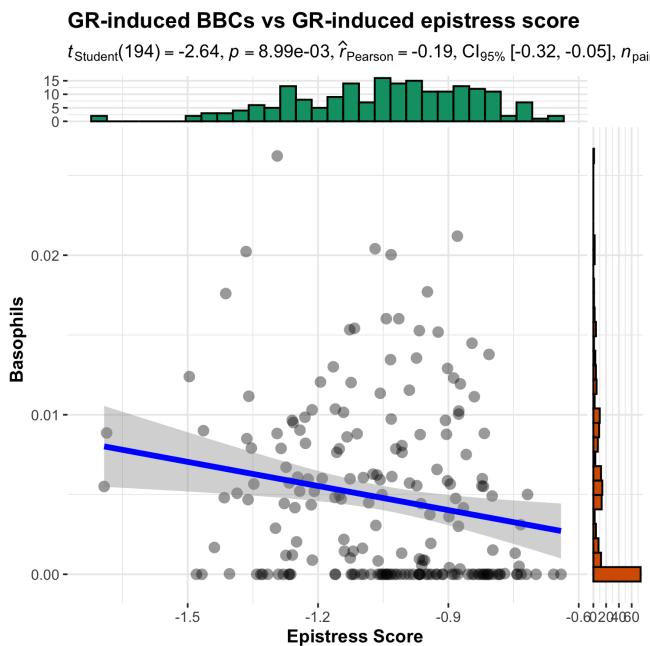
# Epistress Score vs BBCs

## Basophils

Code

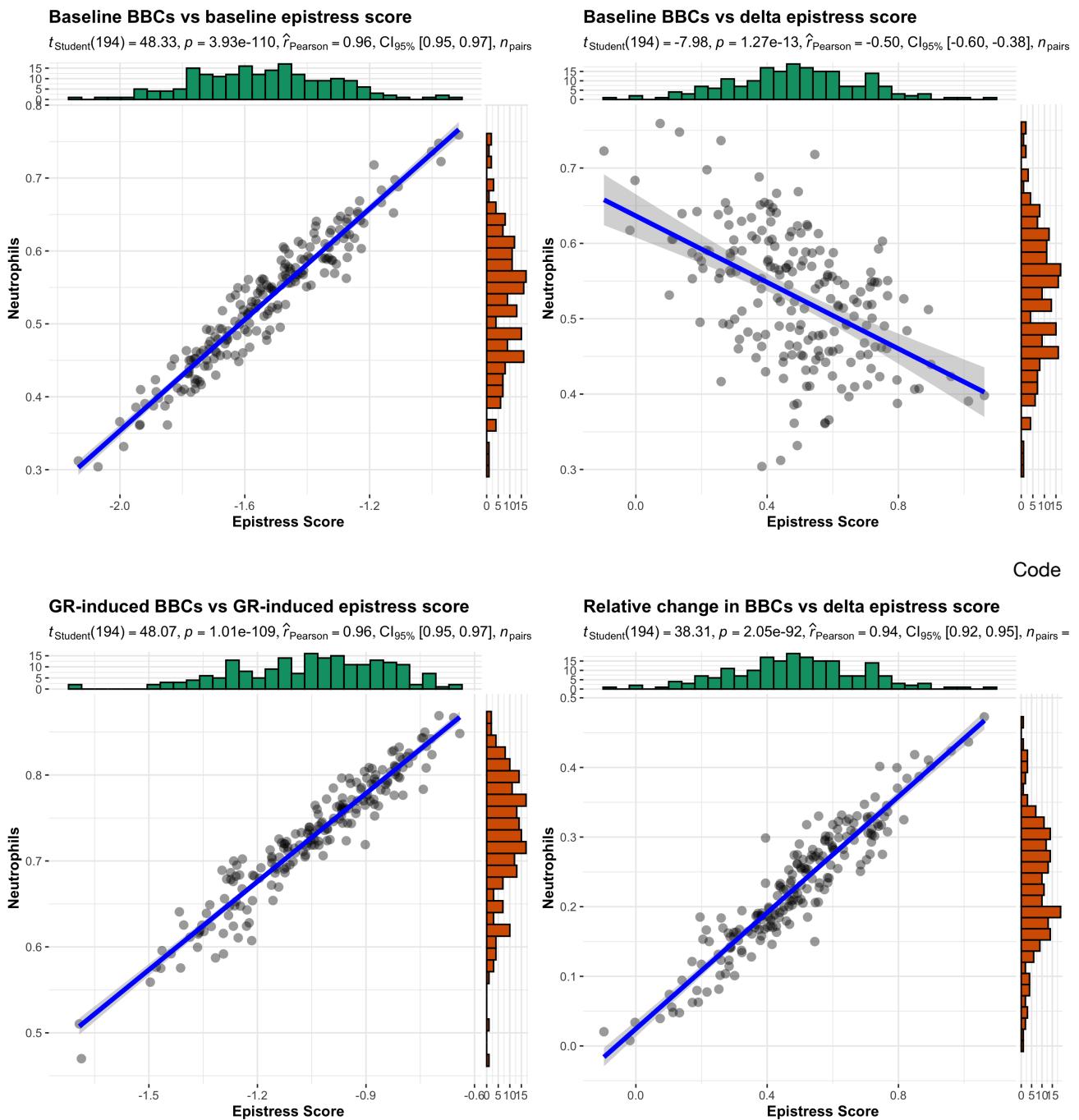


Code



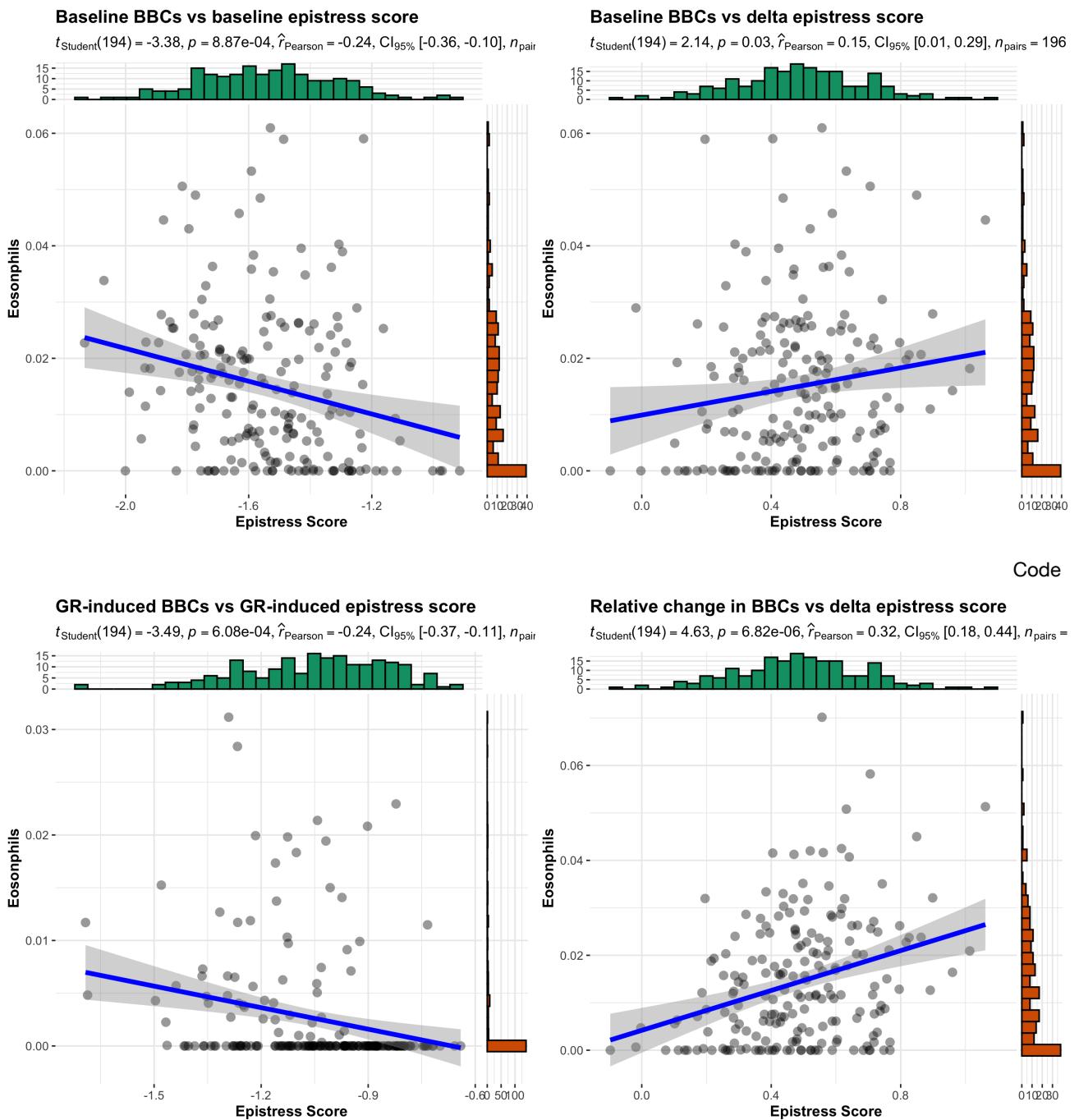
## Neutrophils

Code



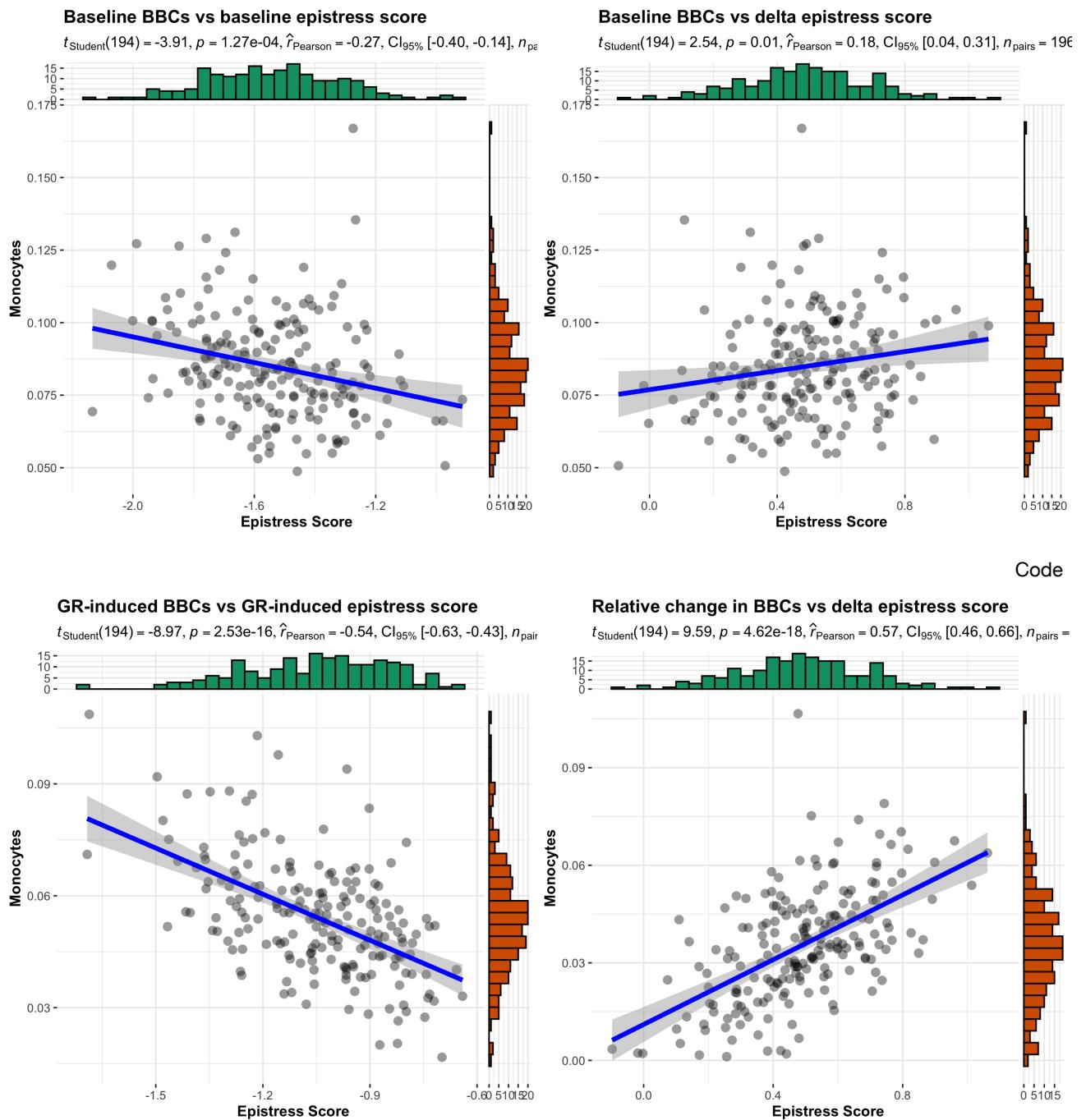
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Code



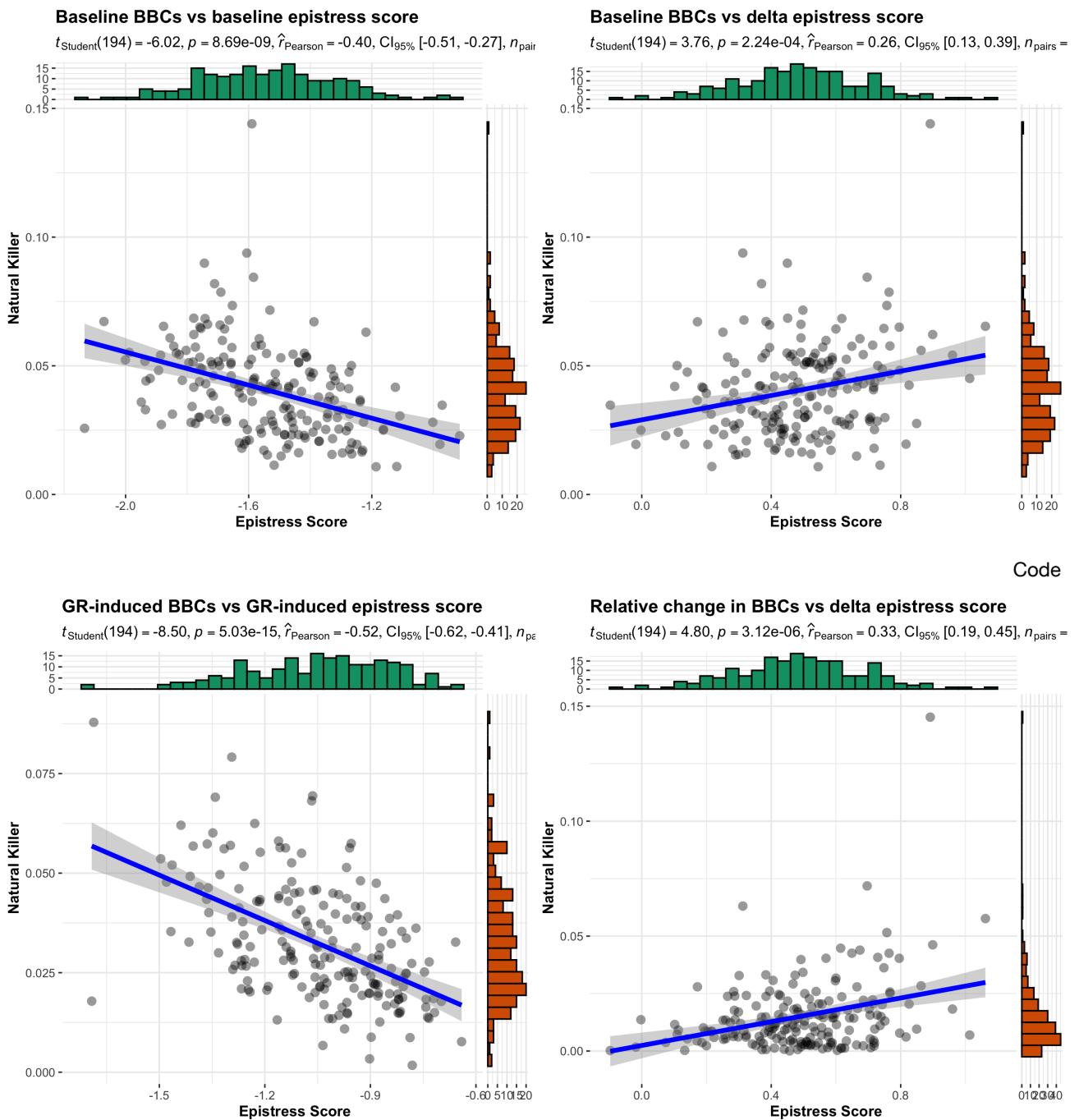
## Monocytes

**Code**



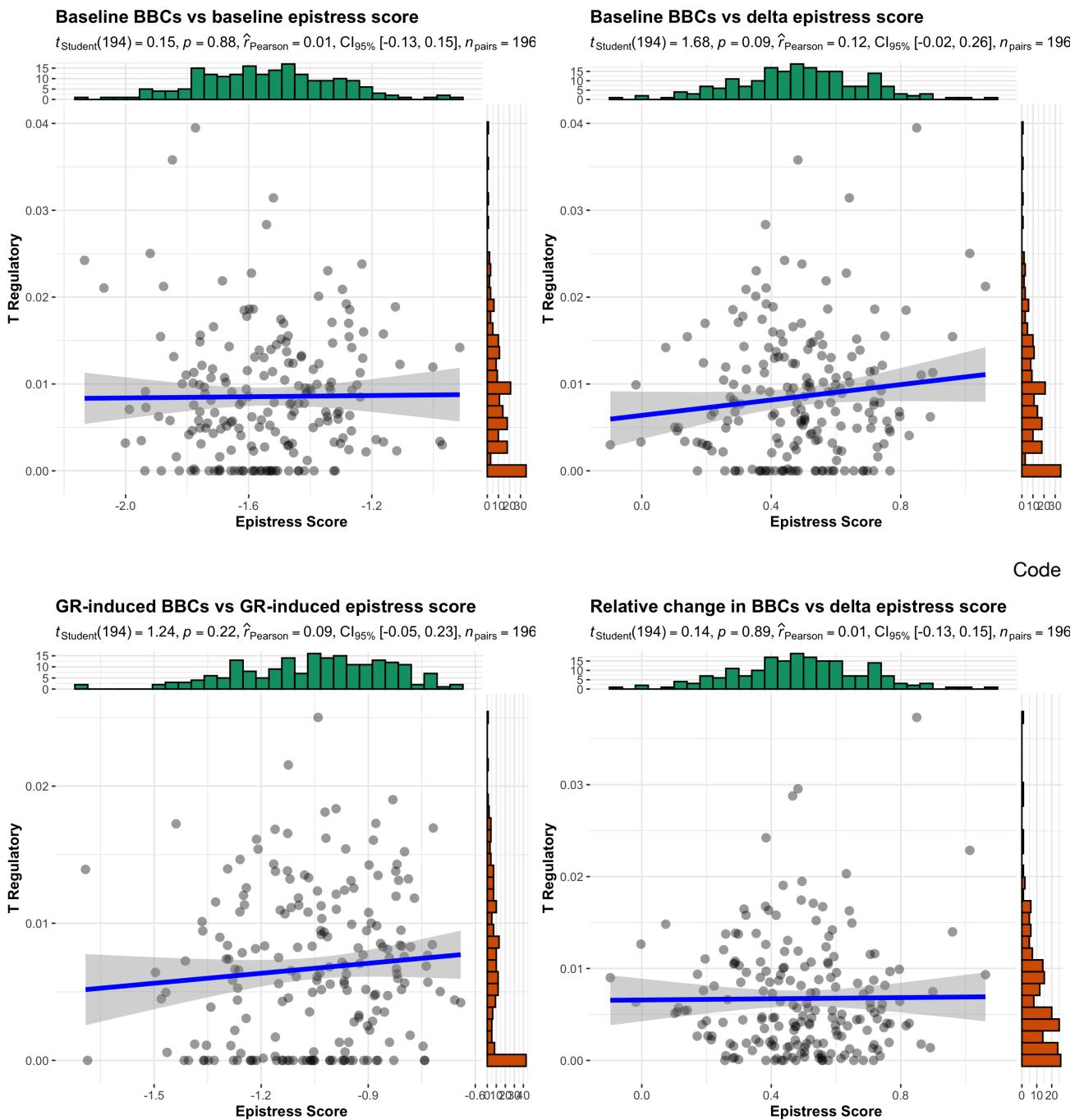
## Natural Killer

Code



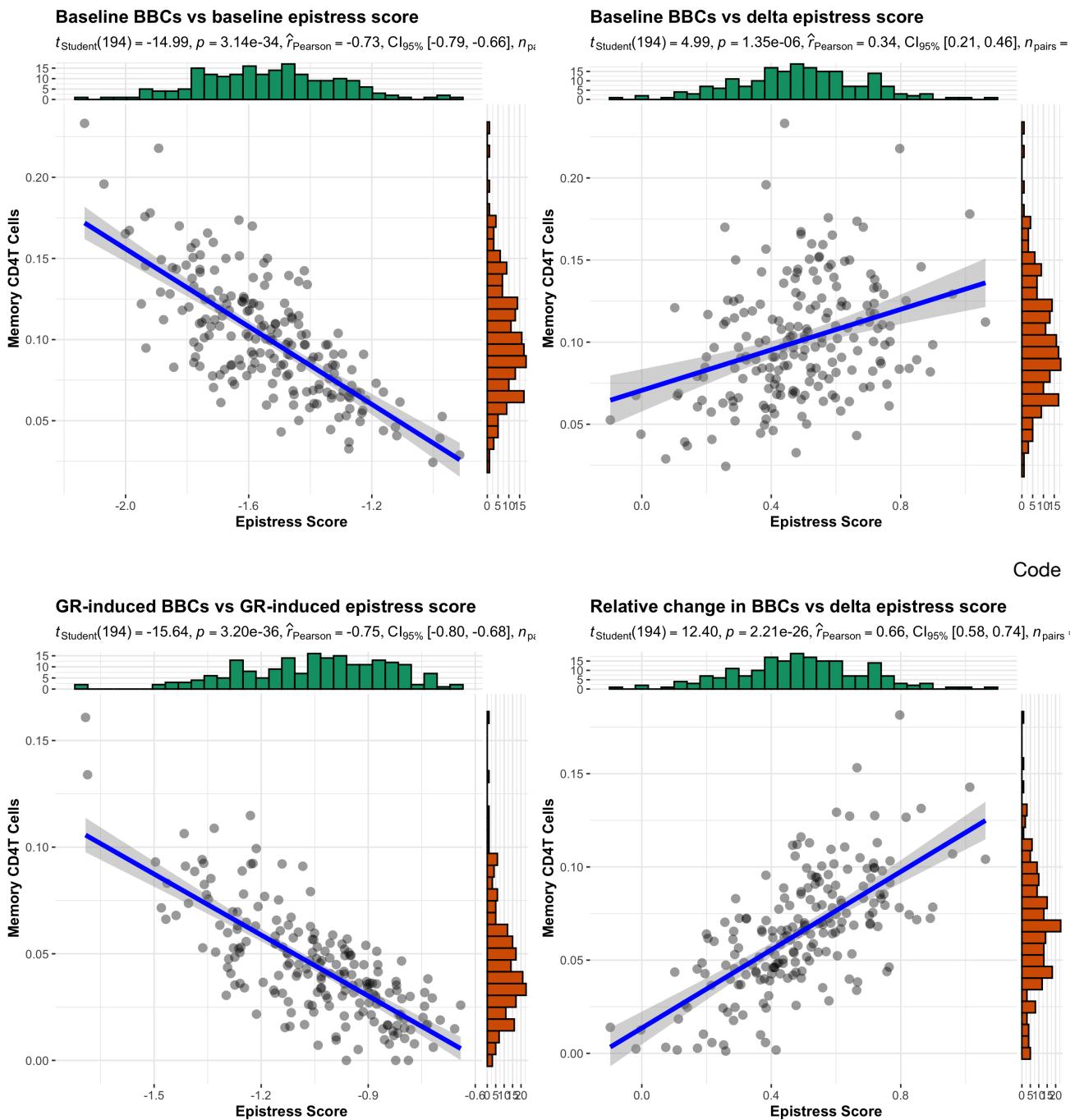
# T Regulatory

Code



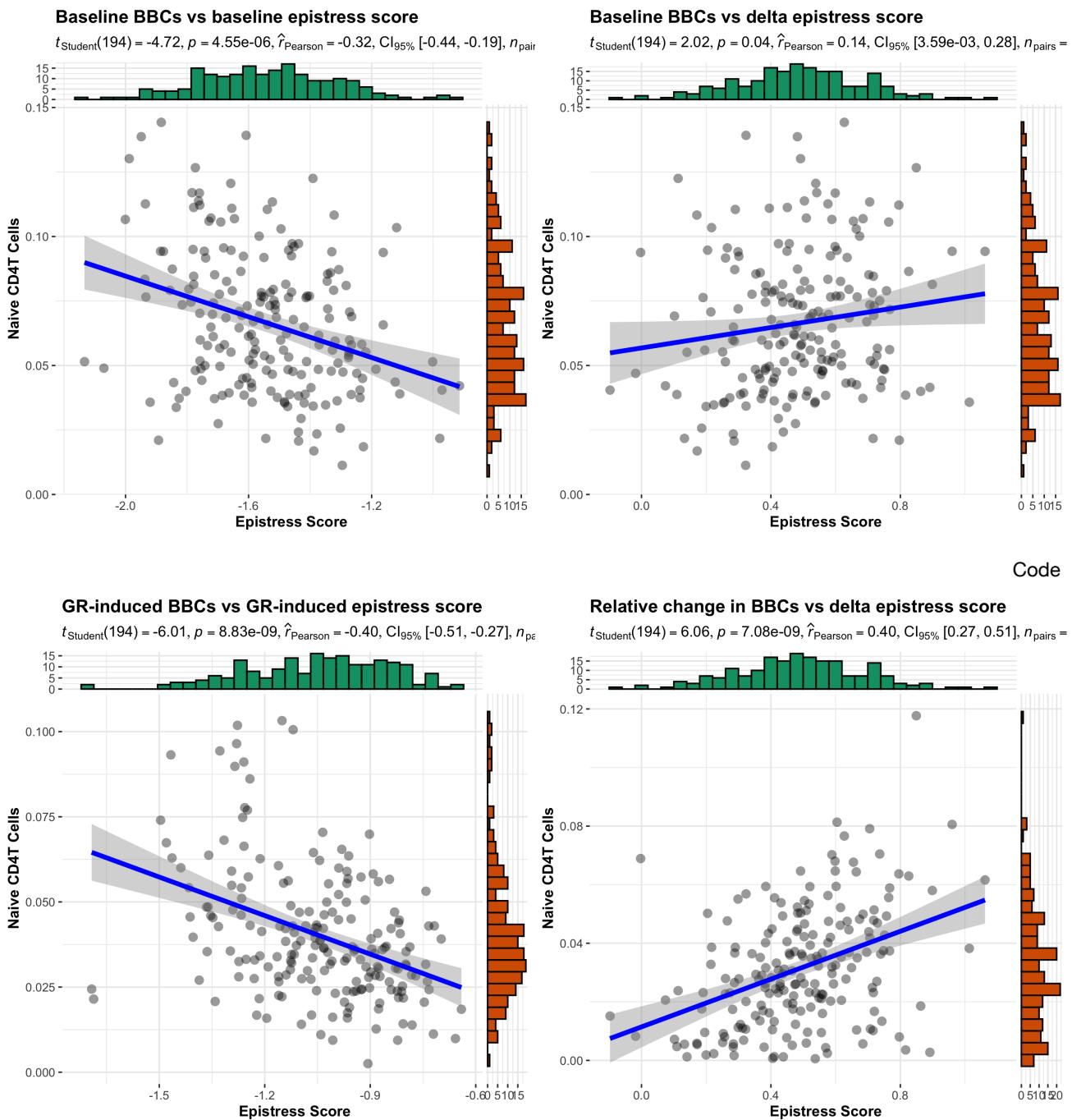
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Code



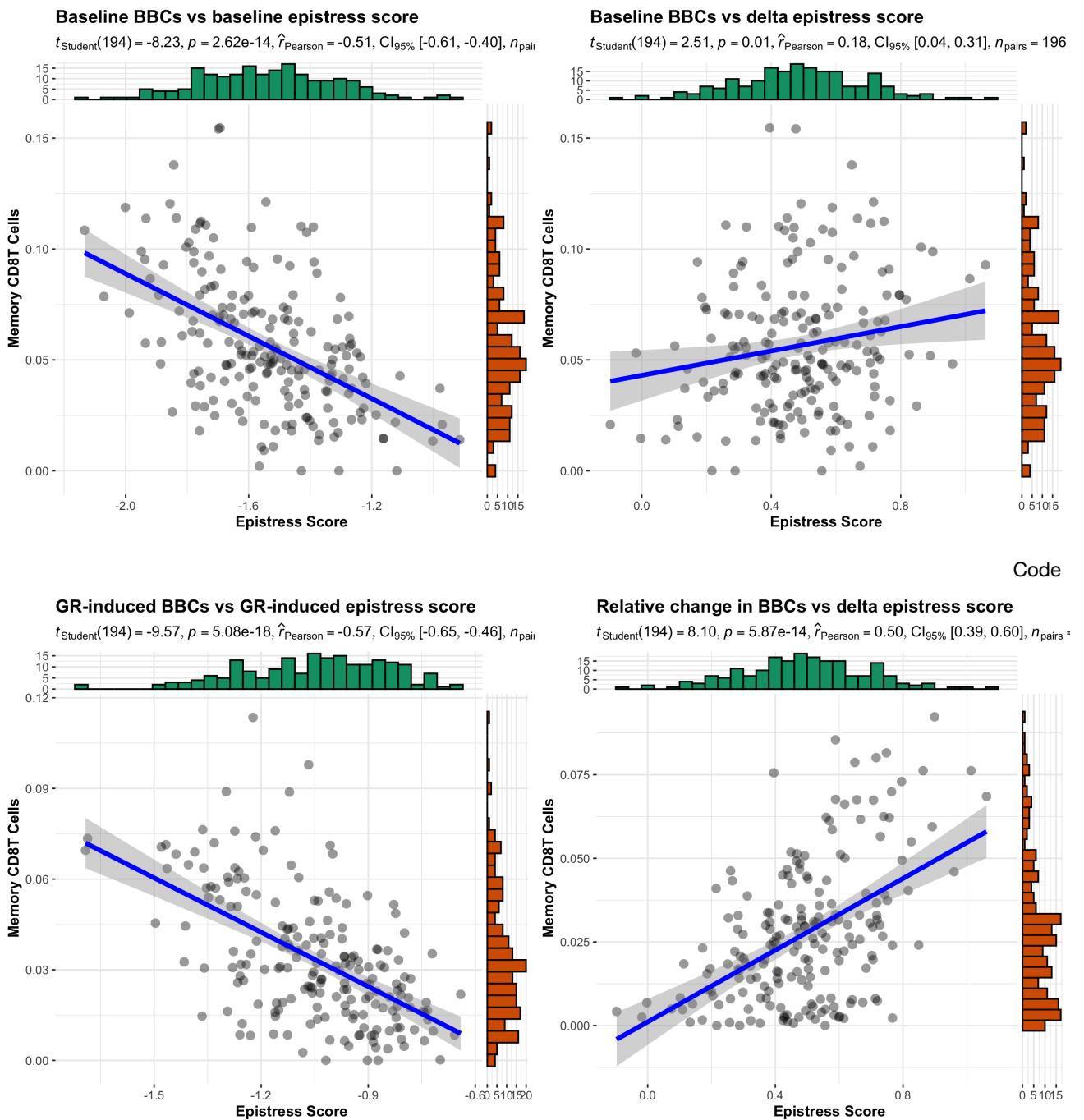
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Code



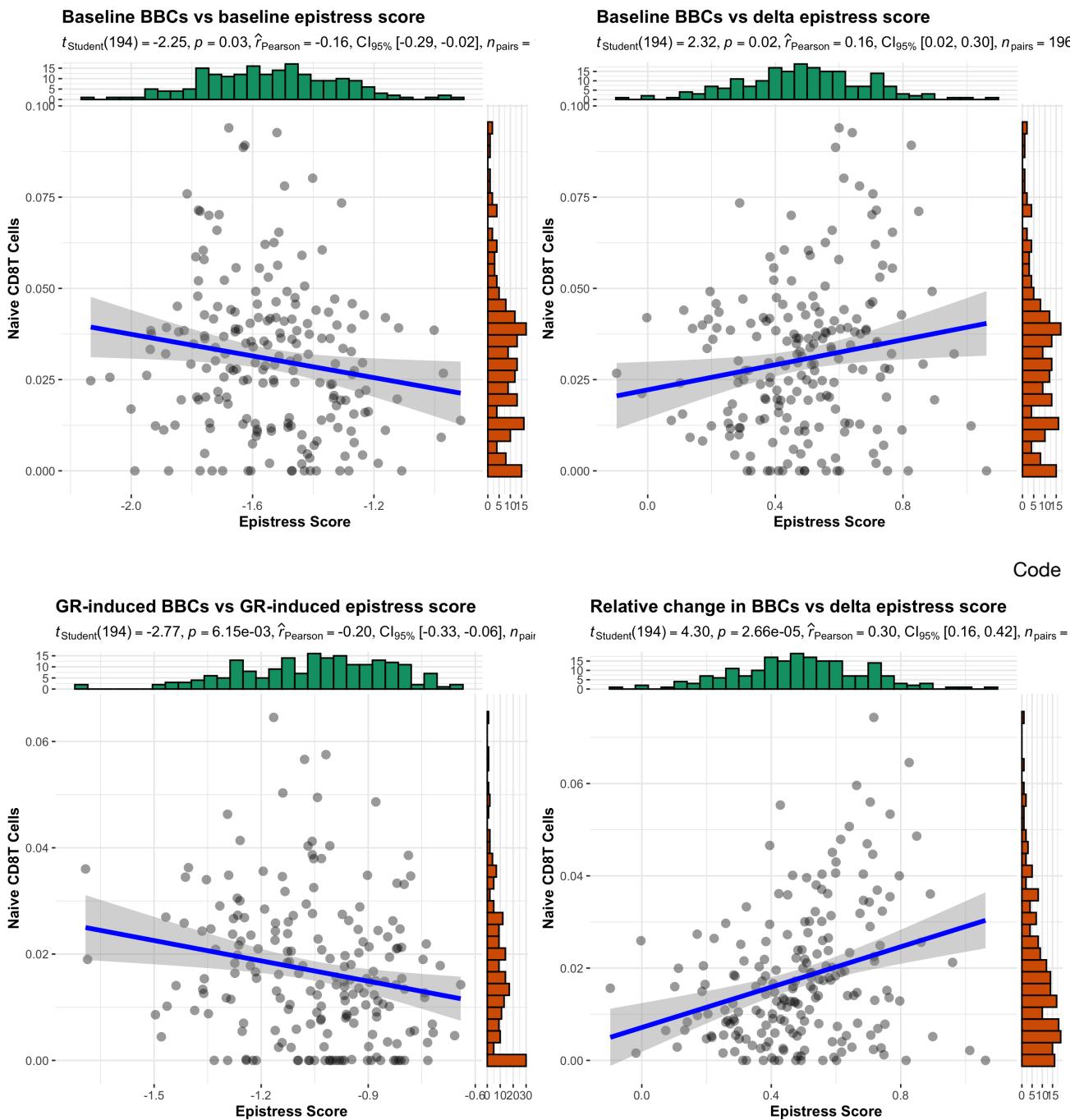
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Code



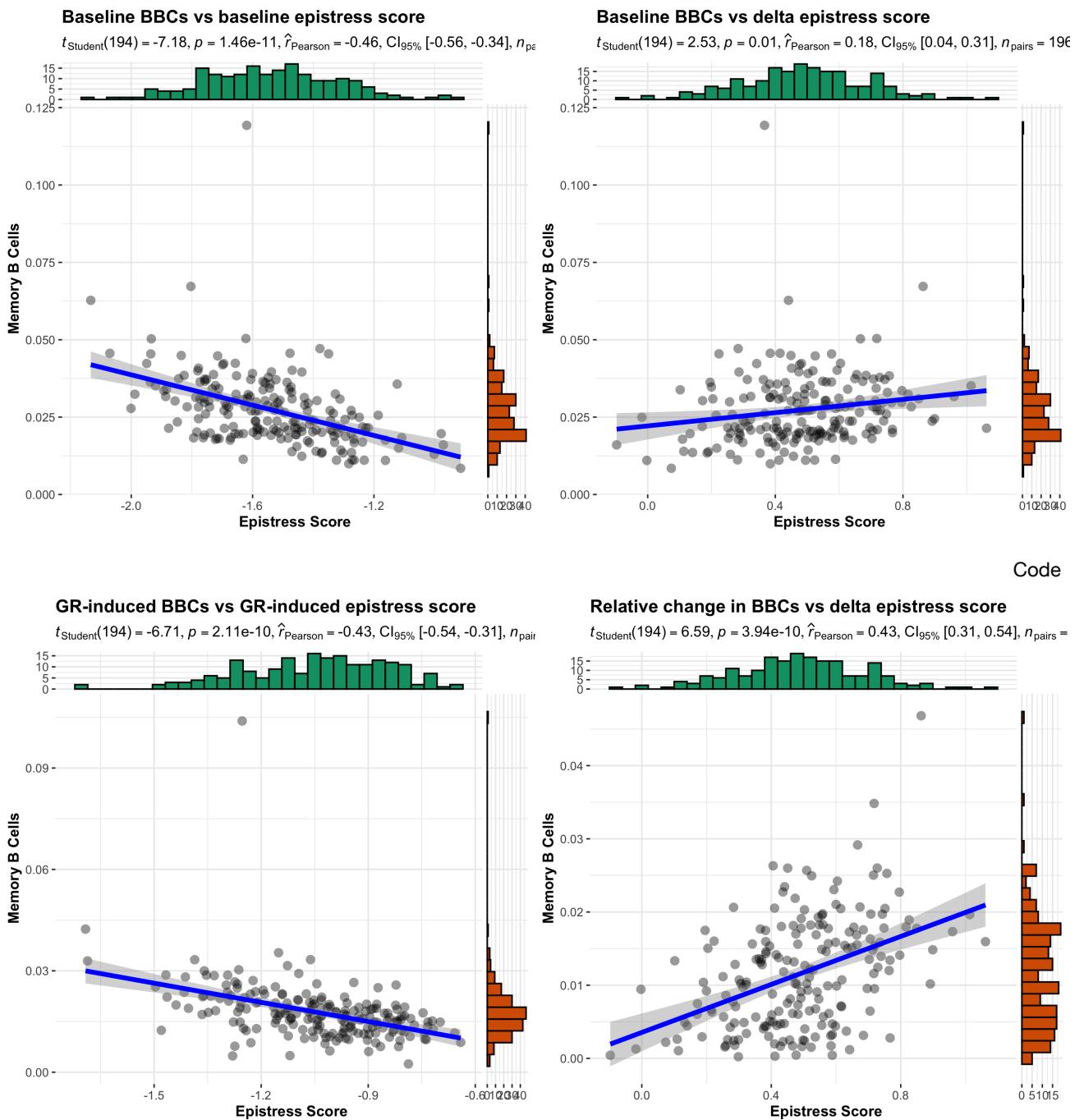
## Naive CD8T

Code



## Memory B Cells

Code



## Naive B Cells

Code

