

Model 1: ResNet50 trained on COX4 channel

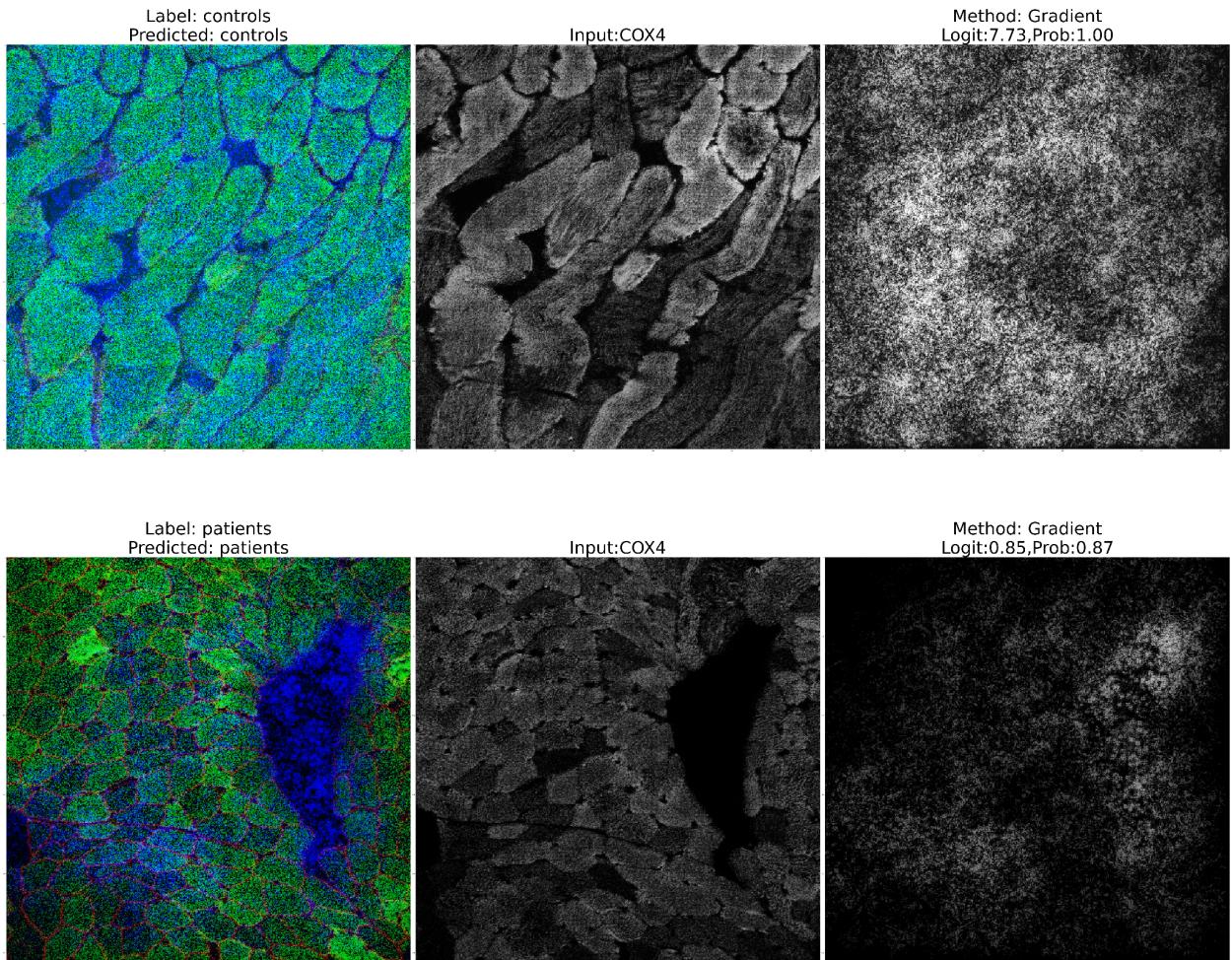


Figure 2: output from the explainable function 'gradient' method that shows the input pixels that are most sensitive to output. Images on the left are constructed by assigning (R,G,B) colours to (Fiber membrane, Fiber mass, Gradient map) for domain experts to visualise the result, images in the middle are input test images and images on the right are outputs from the explainable method.

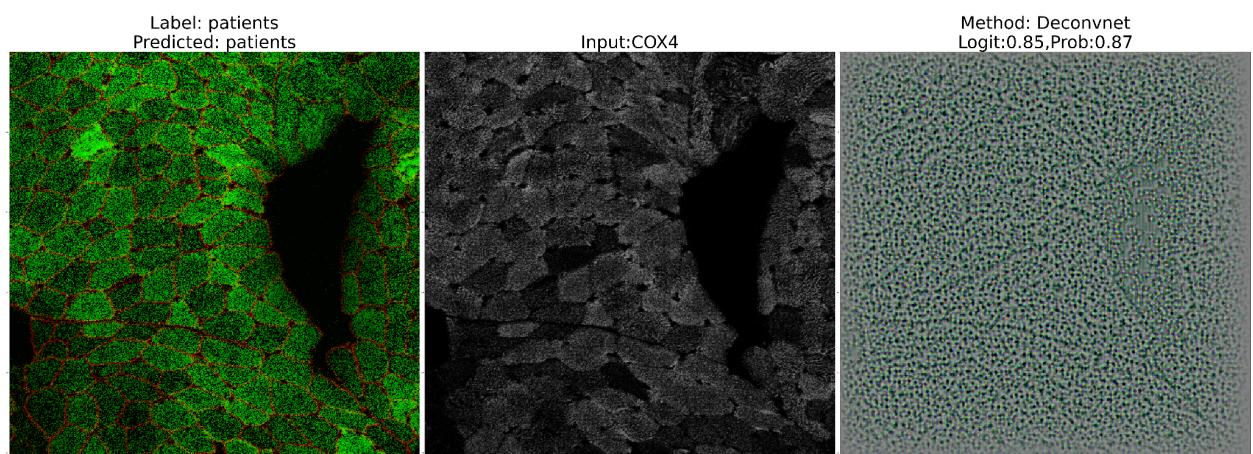
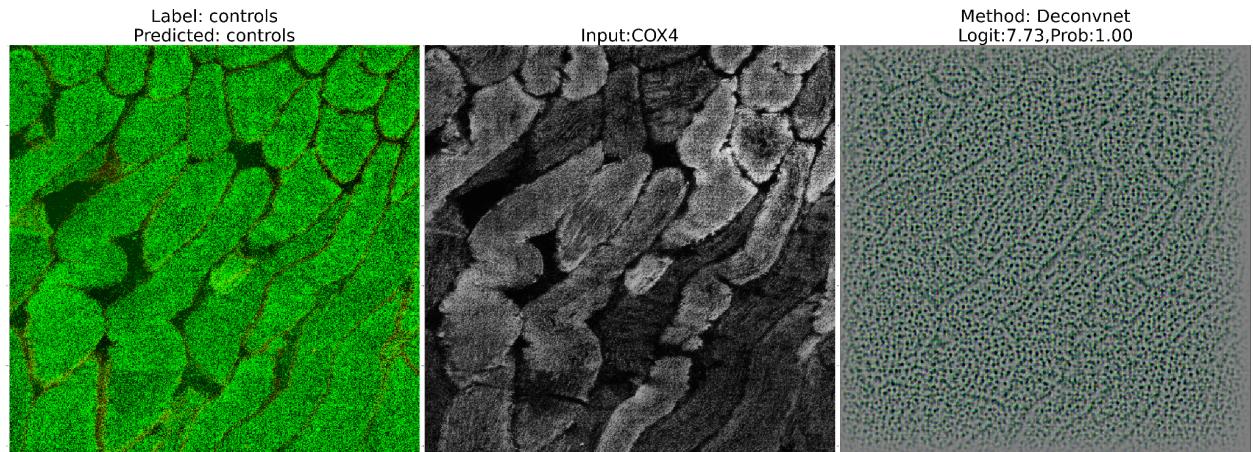


Figure 3: output from the explainable signal 'Deconvnet' method that shows the signal/feature/components of the input image that causes the output. Images on the left are constructed by assigning (R,G,B) colours to (Fiber membrane, Fiber mass, black) for domain experts to visualise the result, images in the middle are input test images and images on the right are outputs from the explainable method.

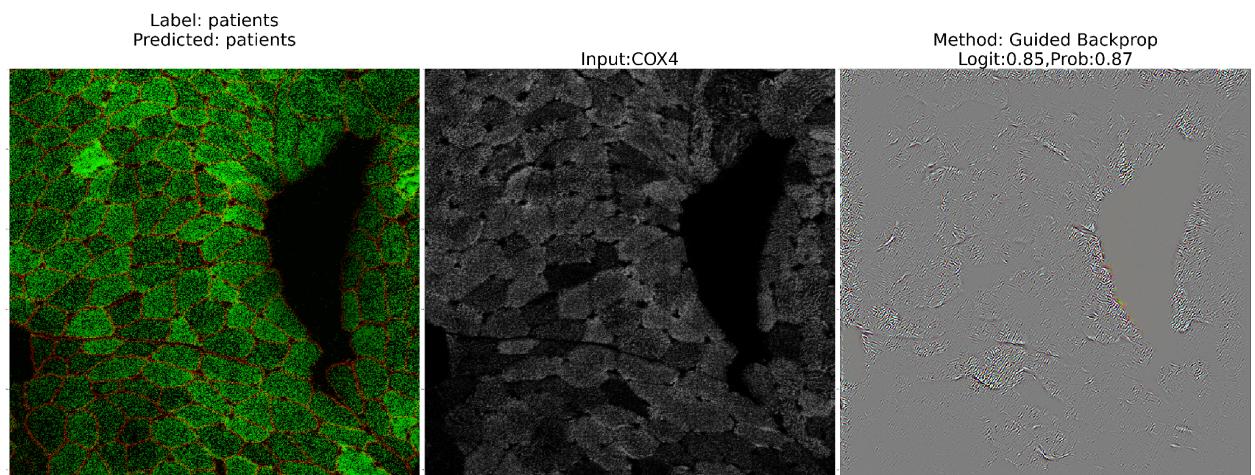
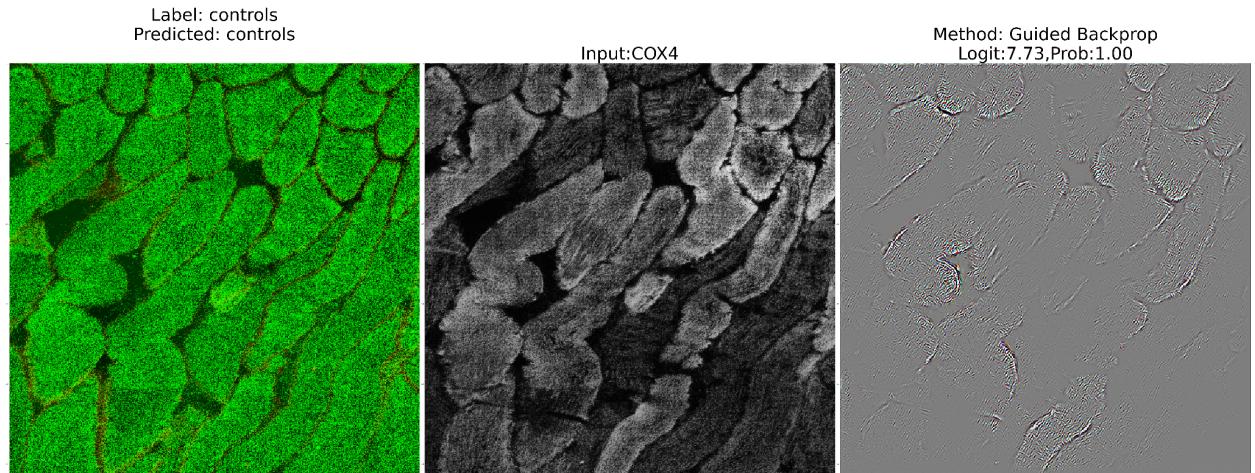


Figure 4: output from the explainable signal 'Guided Backpropagation' method that shows the signal/feature/components of the input image that causes the output. Images on the left are constructed by assigning (R,G,B) colours to (Fiber membrane, Fiber mass, black) for domain experts to visualise the result, images in the middle are input test images and images on the right are outputs from the explainable method.

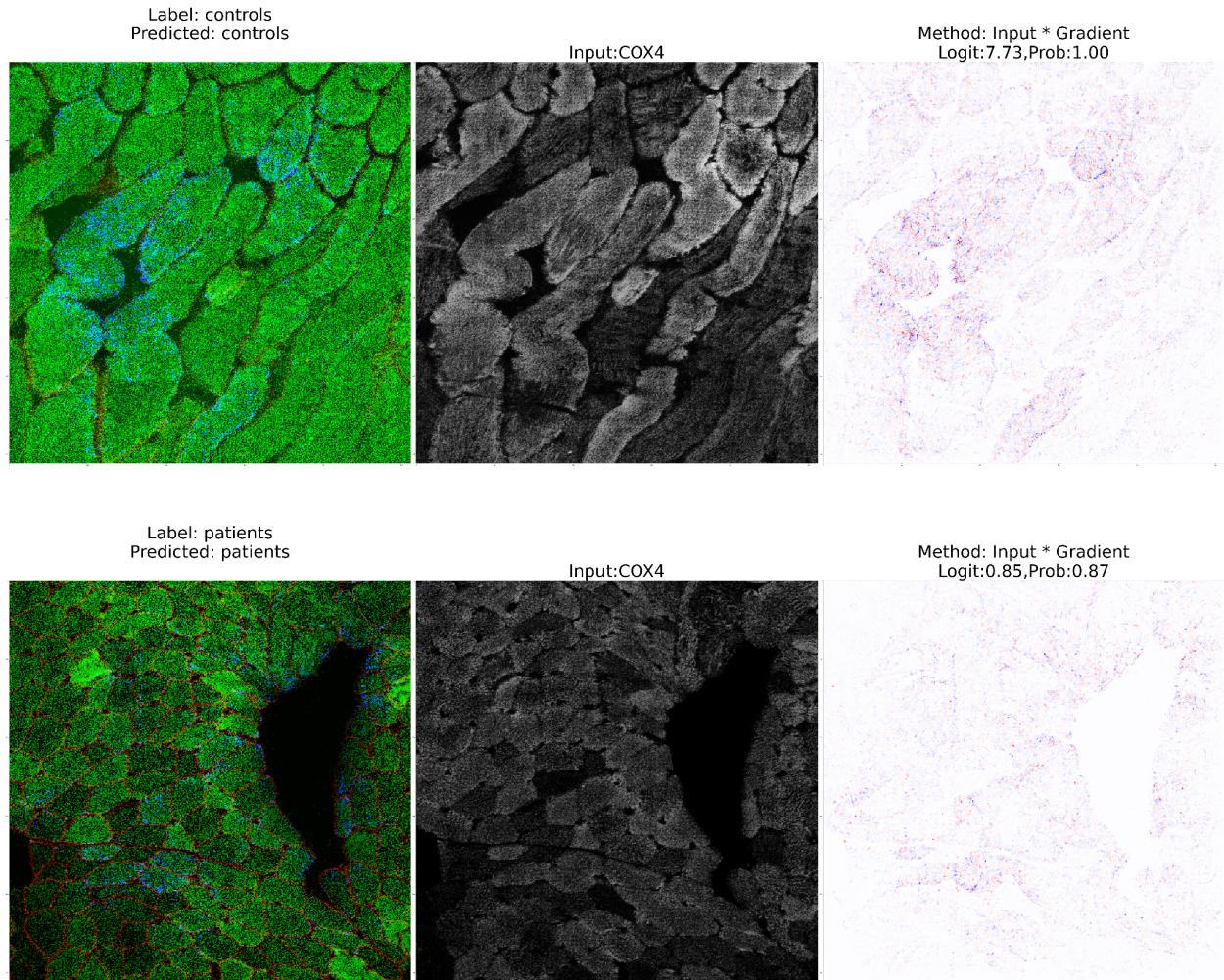


Figure 5: output from the explainable attribution 'Input * Gradient' method that detects both the features in the input and their importance/contribution towards the output. Images on the left are constructed by assigning (R,G,B) colours to (Fiber membrane, Fiber mass, feature importance map) for domain experts to visualise the result, images in the middle are input test images and images on the right are outputs from the explainable method.

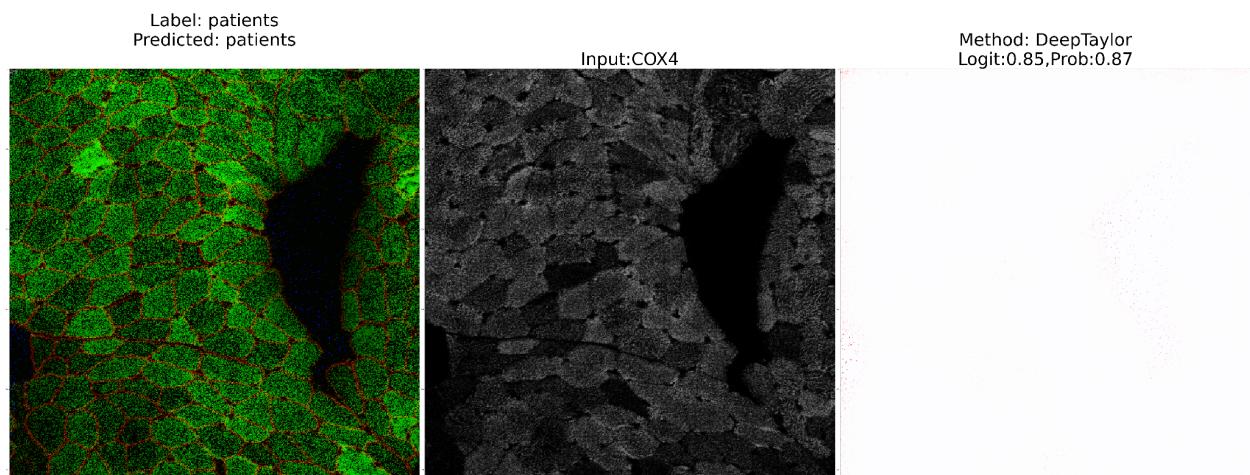
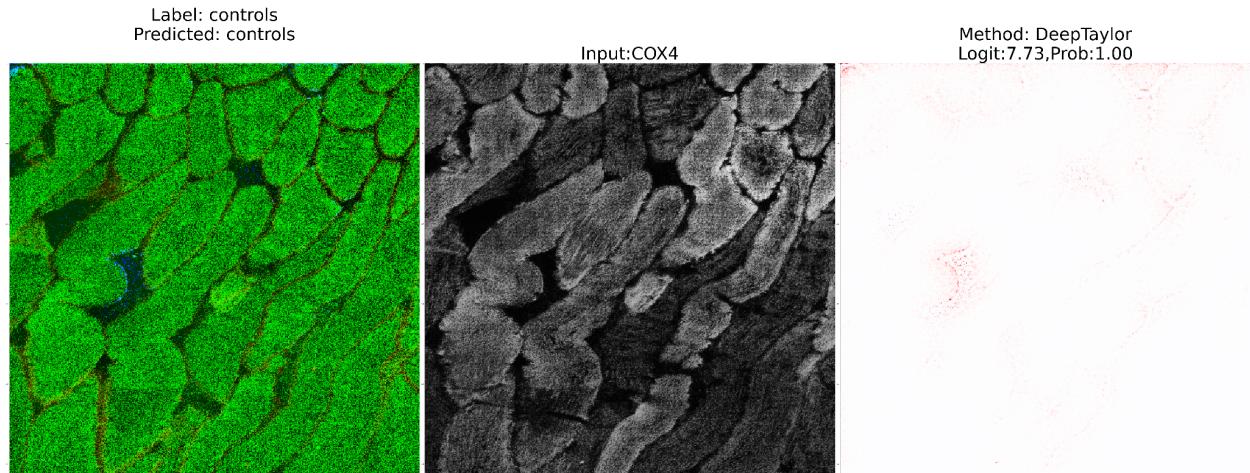


Figure 6: output from the explainable attribution 'Deep Taylor' method that detects both the features in the input and their importance/contribution towards the output. Images on the left are constructed by assigning (R,G,B) colours to (Fiber membrane, Fiber mass, feature importance map) for domain experts to visualise the result, images in the middle are input test images and images on the right are outputs from the explainable method.

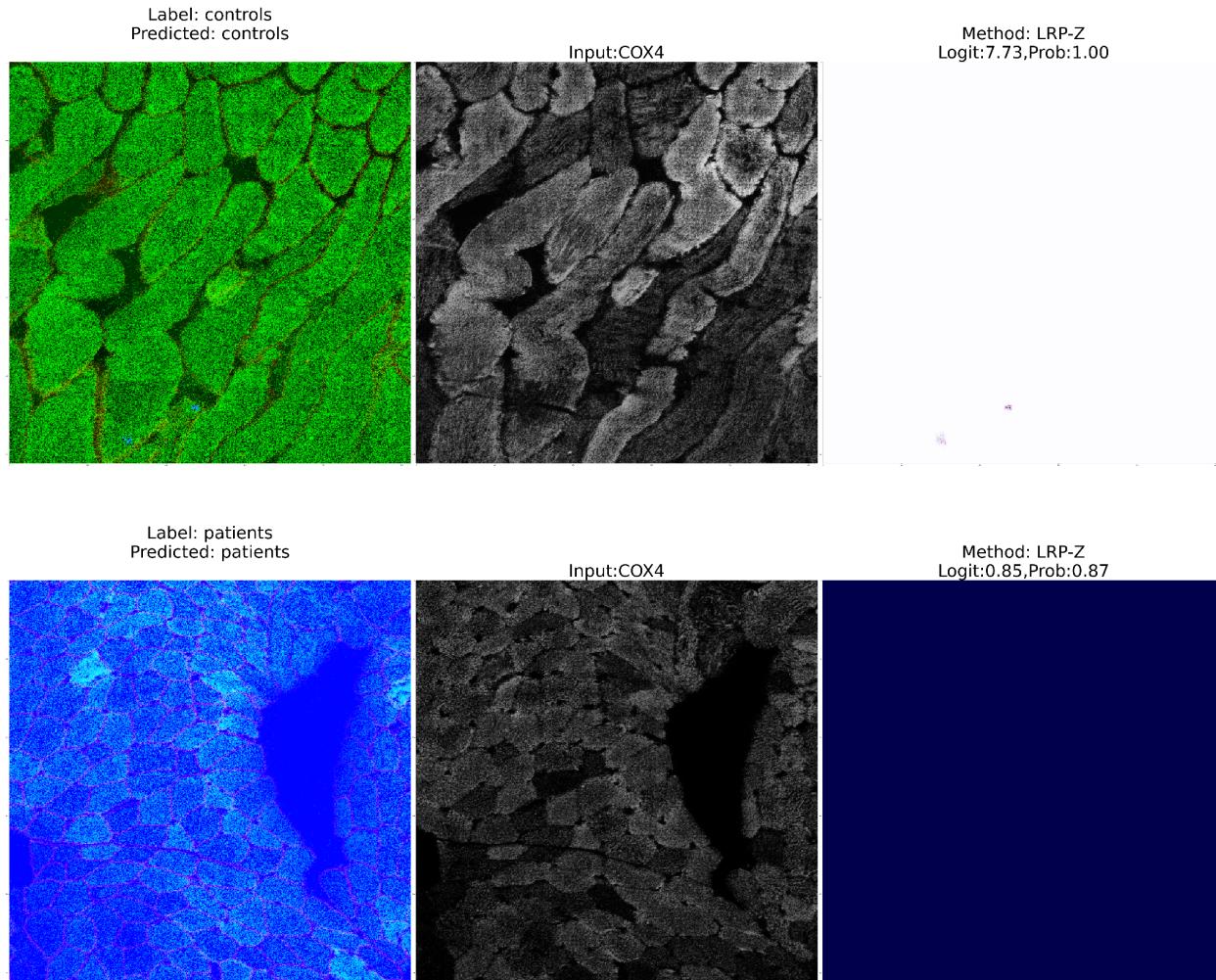


Figure 7: output from the explainable attribution 'LRP-Z' method that detects both the features in the input and their importance/contribution towards the output. Images on the left are constructed by assigning (R,G,B) colours to (Fiber membrane, Fiber mass, feature importance map) for domain experts to visualise the result, images in the middle are input test images and images on the right are outputs from the explainable method.

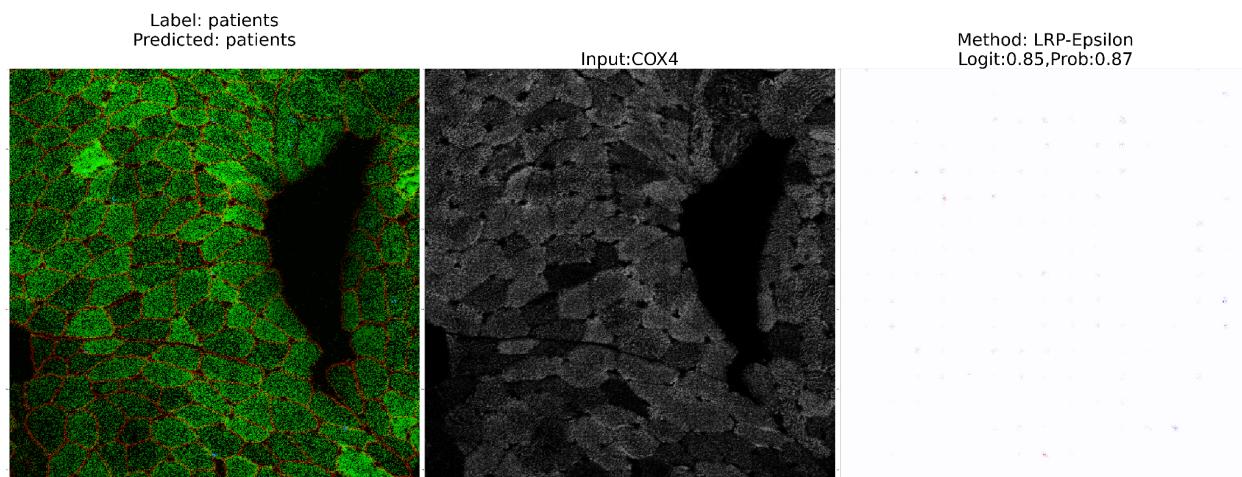
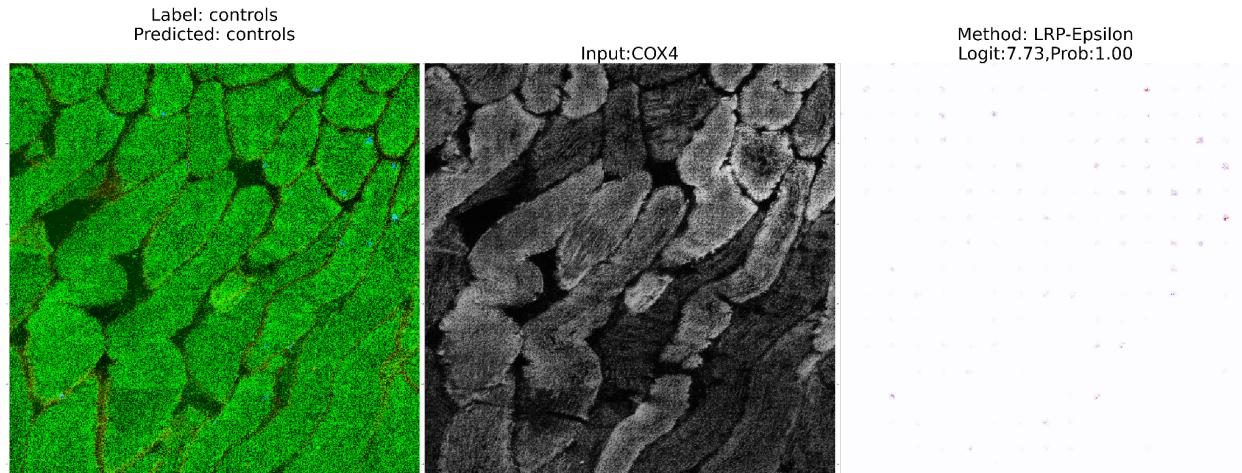


Figure 8: output from the explainable attribution 'LRP-Epsilon' method that detects both the features in the input and their importance/contribution towards the output. Images on the left are constructed by assigning (R,G,B) colours to (Fiber membrane, Fiber mass, feature importance map) for domain experts to visualise the result, images in the middle are input test images and images on the right are outputs from the explainable method.

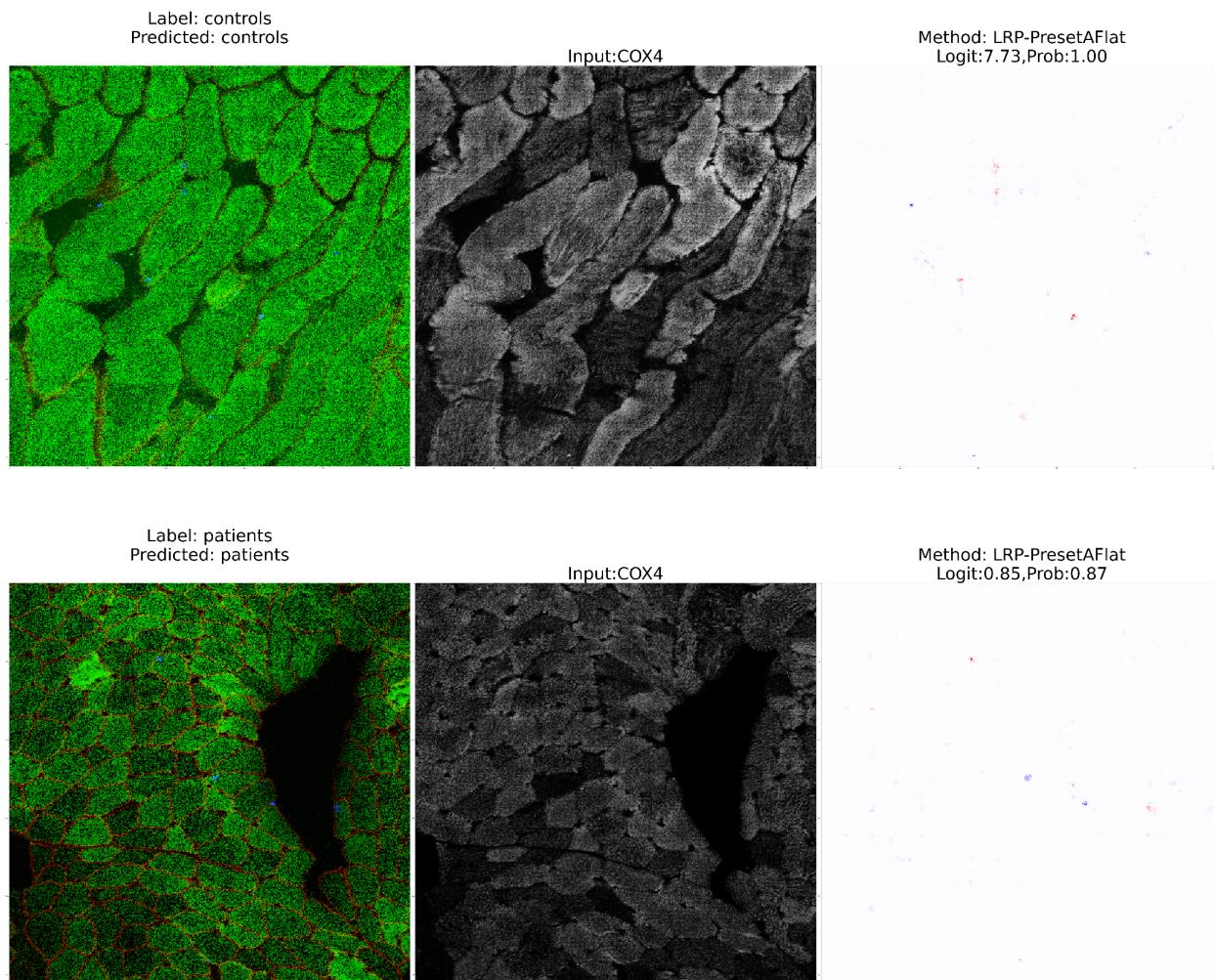


Figure 9: output from the explainable attribution 'LRP-PresetAFlat' method that detects both the features in the input and their importance/contribution towards the output. Images on the left are constructed by assigning (R,G,B) colours to (Fiber membrane, Fiber mass, feature importance map) for domain experts to visualise the result, images in the middle are input test images and images on the right are outputs from the explainable method.

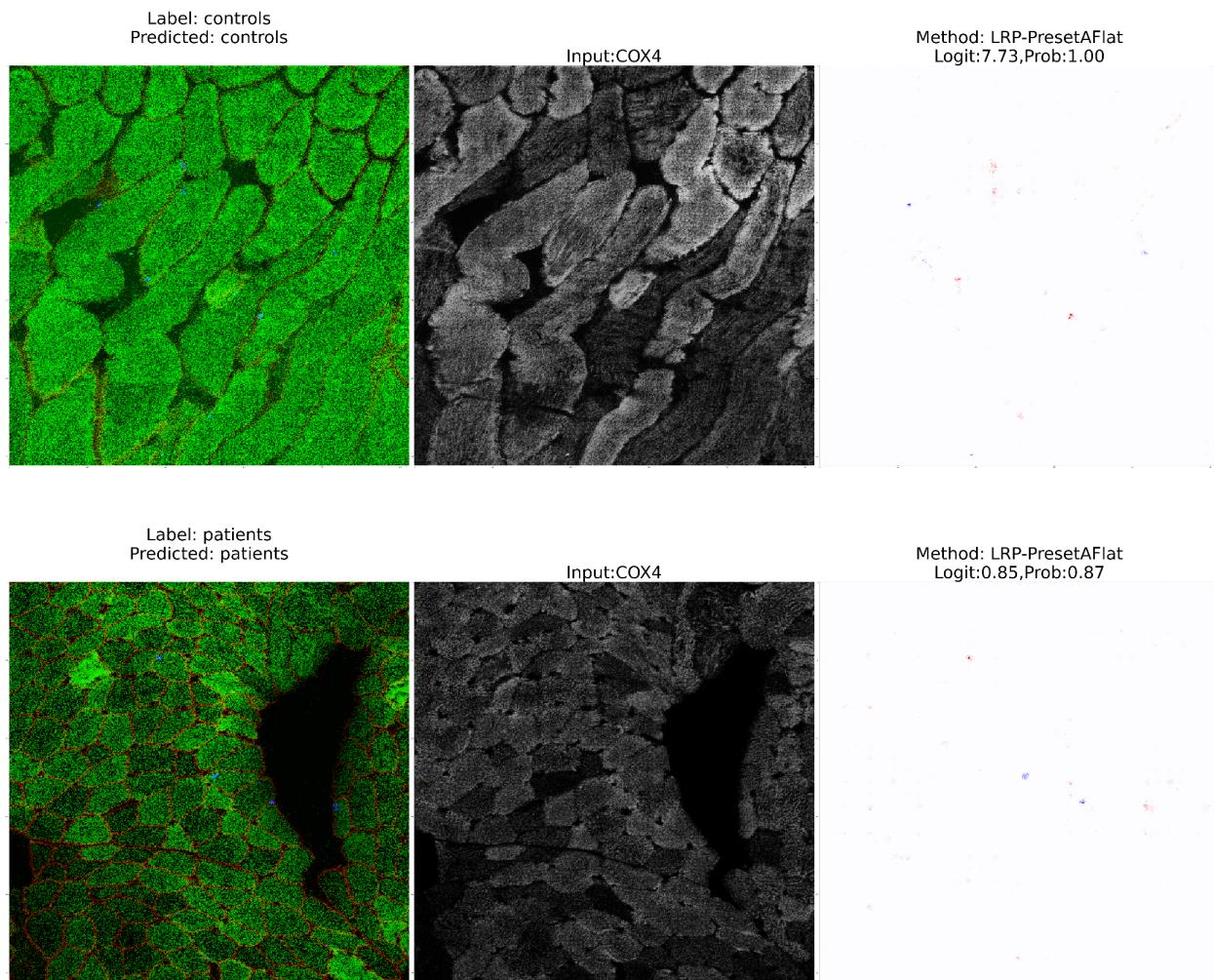
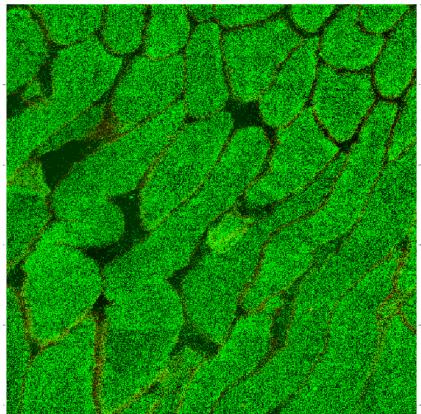


Figure 10: output from the explainable attribution 'LRP-PresetBFlat' method that detects both the features in the input and their importance/contribution towards the output. Images on the left are constructed by assigning (R,G,B) colours to (Fiber membrane, Fiber mass, feature importance map) for domain experts to visualise the result, images in the middle are input test images and images on the right are outputs from the explainable method.

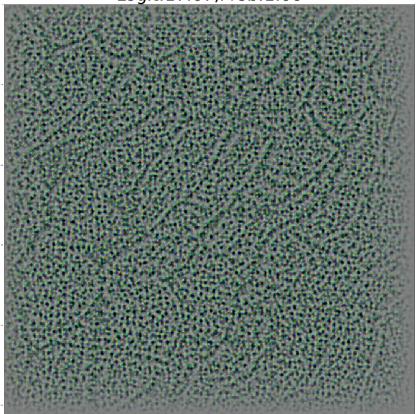
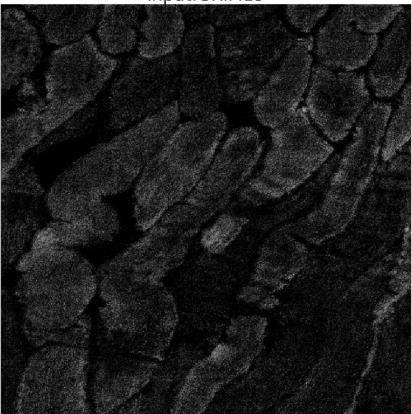
Model 2: ResNet50 trained on GRIM19 channel

Label: controls
Predicted: controls

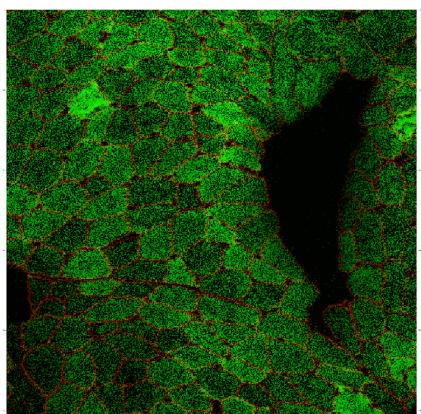


Input:GRIM19

Method: Deconvnet
Logit:17.07,Prob:1.00

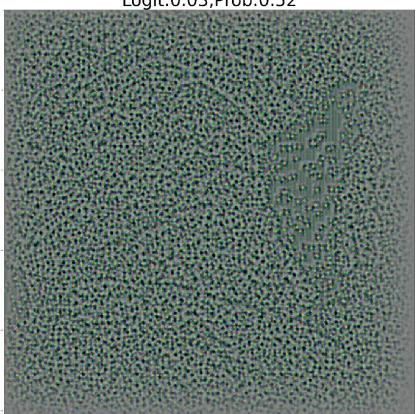
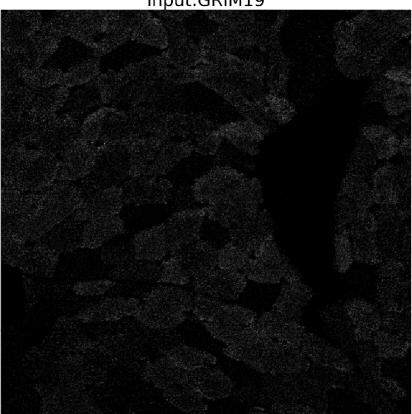


Label: patients
Predicted: controls

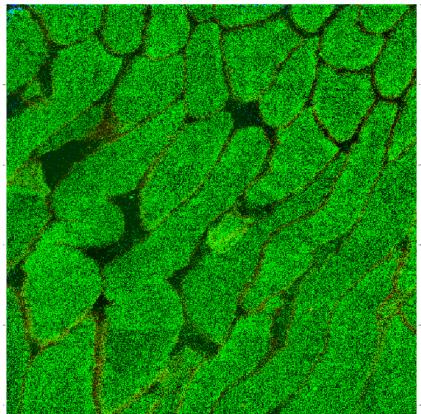


Input:GRIM19

Method: Deconvnet
Logit:0.03,Prob:0.52

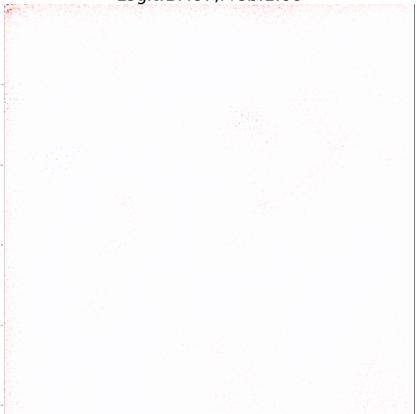
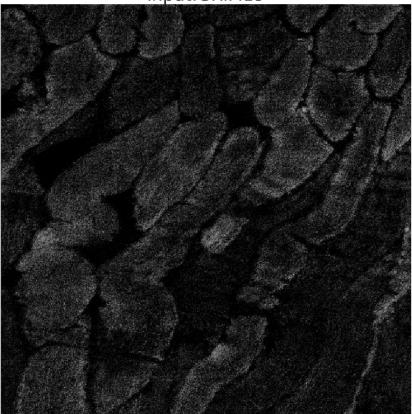


Label: controls
Predicted: controls

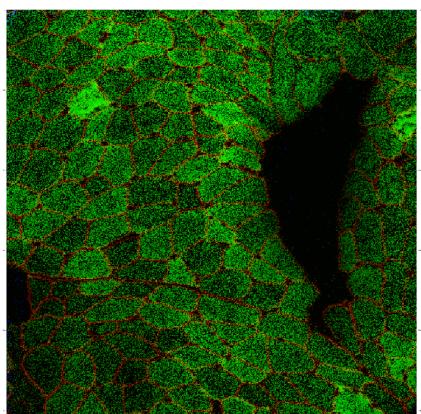


Input:GRIM19

Method: DeepTaylor
Logit:17.07,Prob:1.00

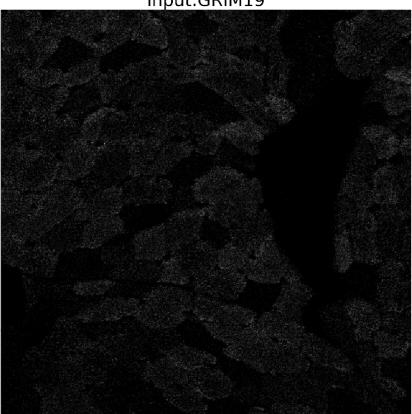


Label: patients
Predicted: controls

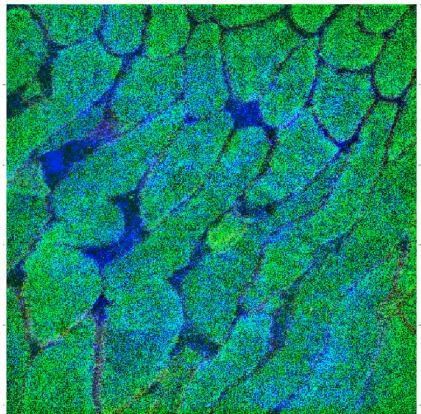


Input:GRIM19

Method: DeepTaylor
Logit:0.03,Prob:0.52

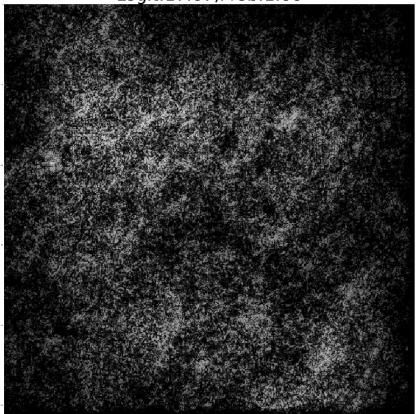
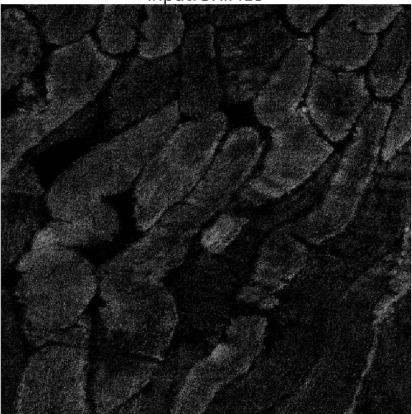


Label: controls
Predicted: controls

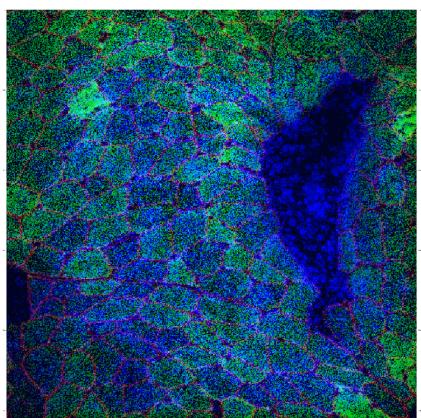


Input:GRIM19

Method: Gradient
Logit:17.07,Prob:1.00

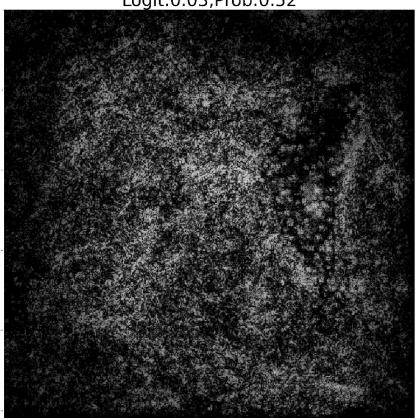
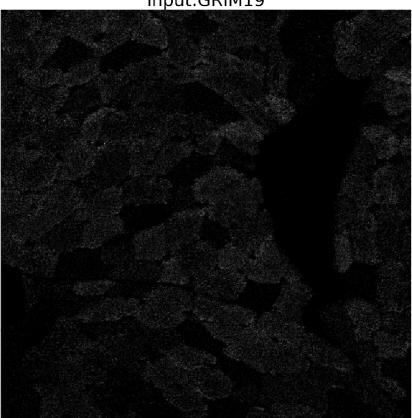


Label: patients
Predicted: controls

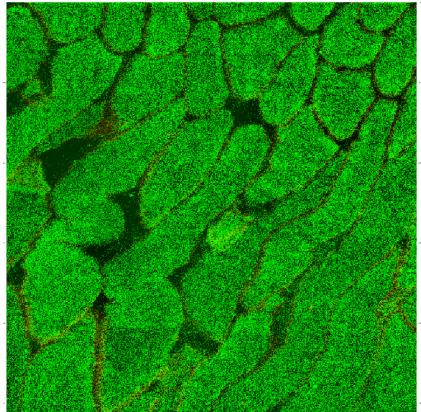


Input:GRIM19

Method: Gradient
Logit:0.03,Prob:0.52



Label: controls
Predicted: controls

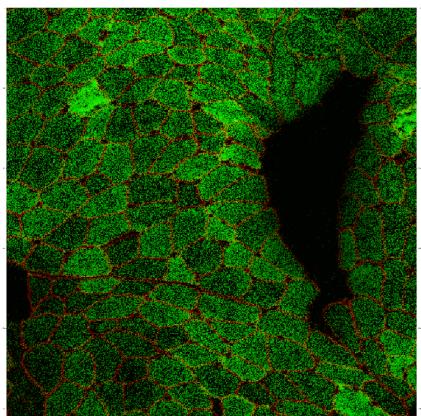


Input:GRIM19

Method: Guided Backprop
Logit:17.07,Prob:1.00

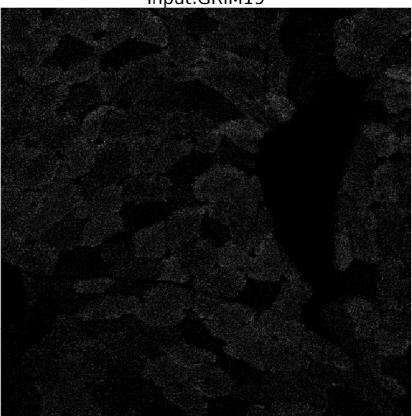


Label: patients
Predicted: controls

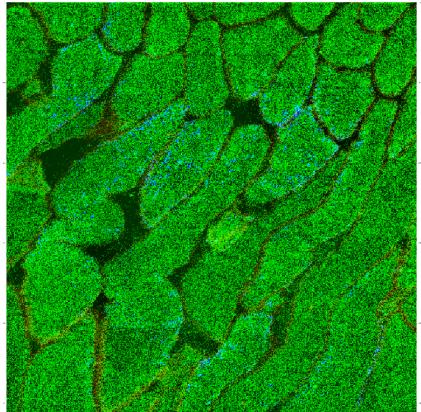


Input:GRIM19

Method: Guided Backprop
Logit:0.03,Prob:0.52

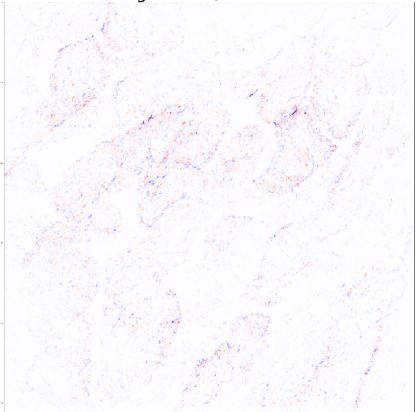


Label: controls
Predicted: controls

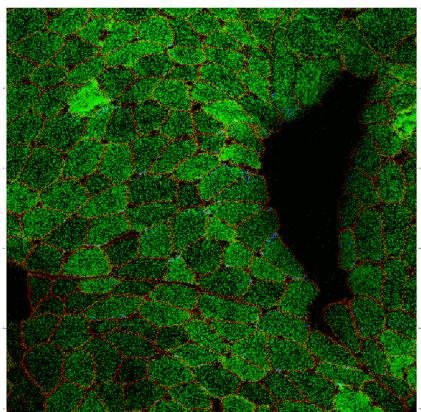


Input:GRIM19

Method: Input * Gradient
Logit:17.07,Prob:1.00

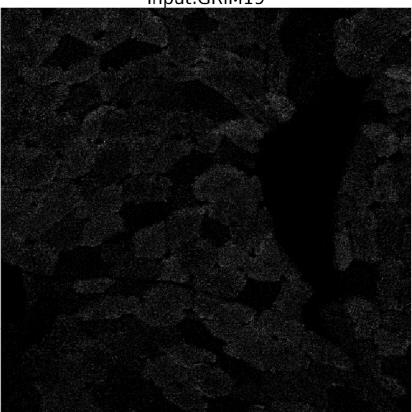


Label: patients
Predicted: controls

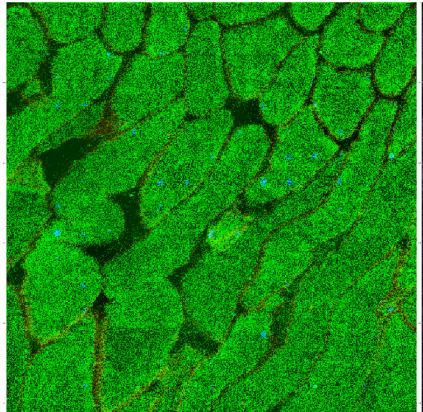


Input:GRIM19

Method: Input * Gradient
Logit:0.03,Prob:0.52

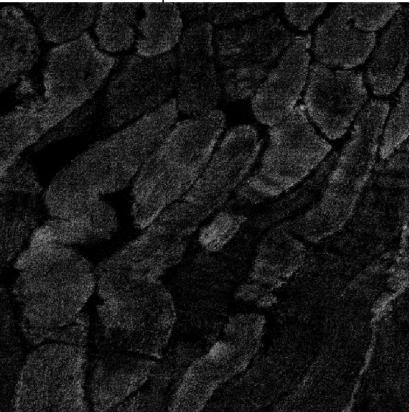


Label: controls
Predicted: controls

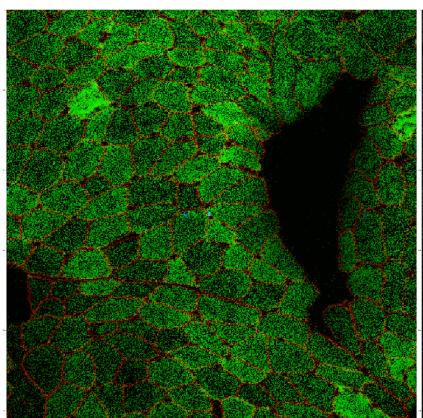


Input:GRIM19

Method: LRP-Epsilon
Logit:17.07,Prob:1.00

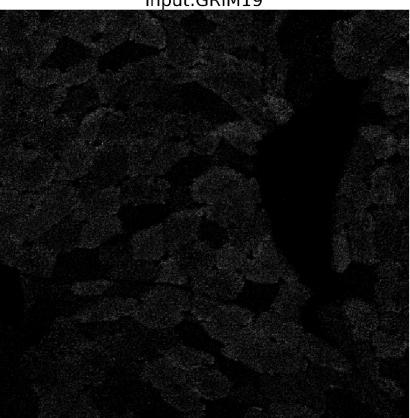


Label: patients
Predicted: controls

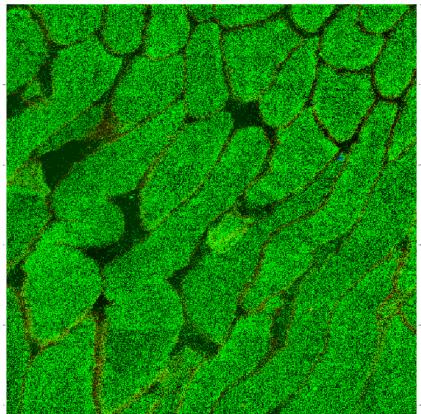


Input:GRIM19

Method: LRP-Epsilon
Logit:0.03,Prob:0.52



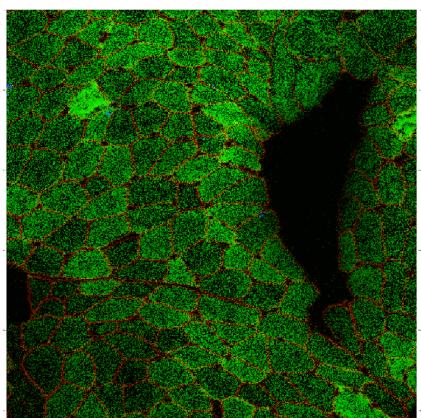
Label: controls
Predicted: controls



Input:GRIM19

Method: LRP-PresetAFlat
Logit:17.07,Prob:1.00

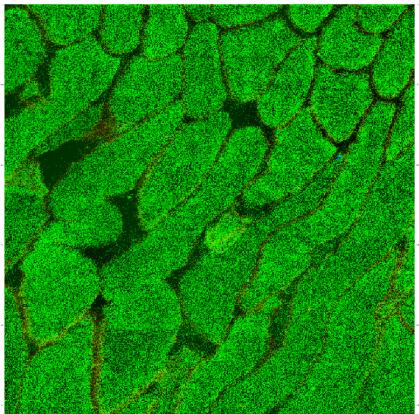
Label: patients
Predicted: controls



Input:GRIM19

Method: LRP-PresetAFlat
Logit:0.03,Prob:0.52

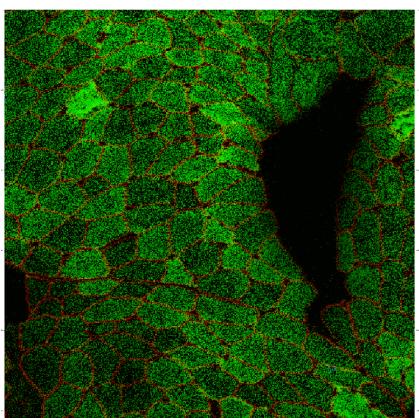
Label: controls
Predicted: controls



Input:GRIM19

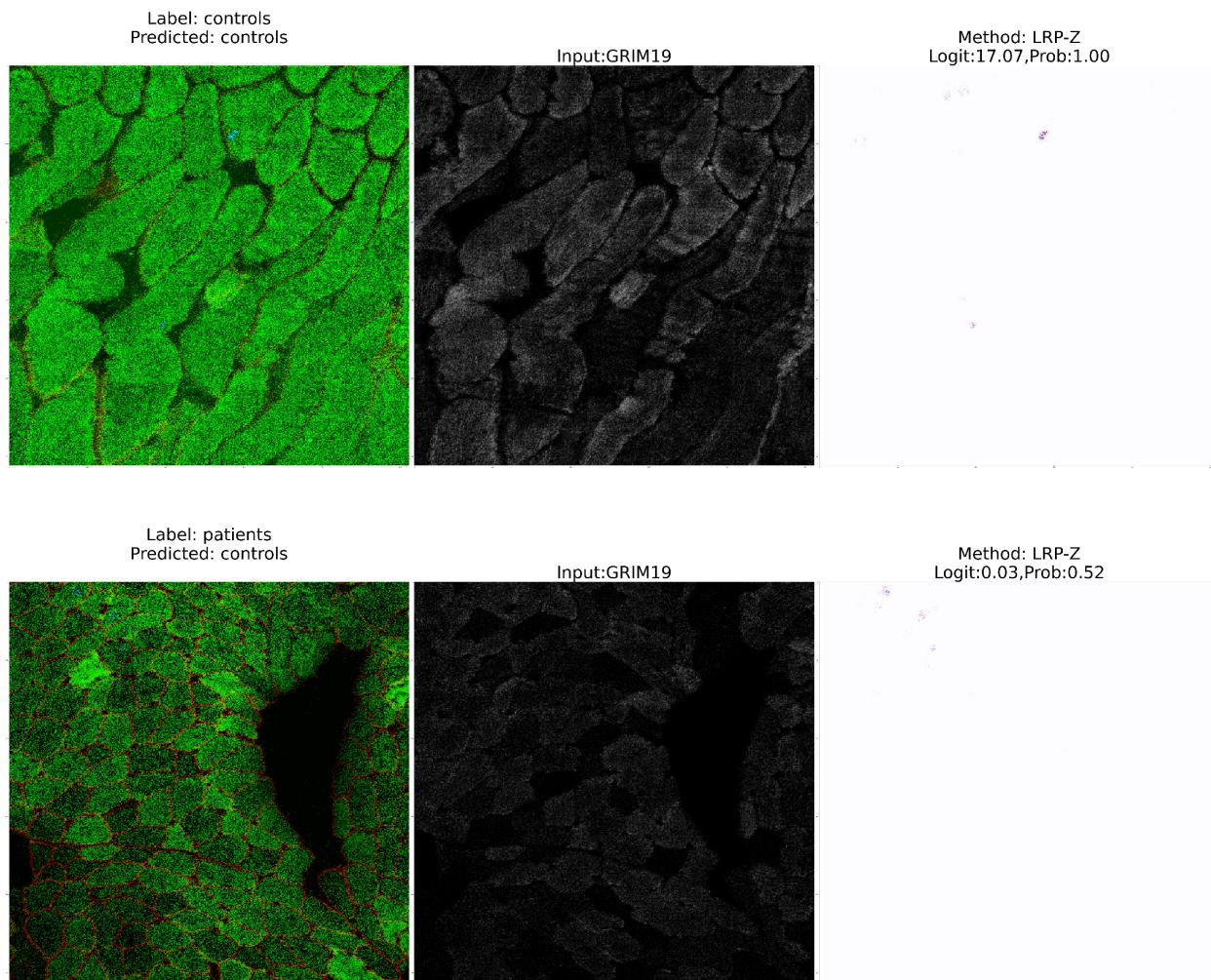
Method: LRP-PresetBFlat
Logit:17.07,Prob:1.00

Label: patients
Predicted: controls



Input:GRIM19

Method: LRP-PresetBFlat
Logit:0.03,Prob:0.52

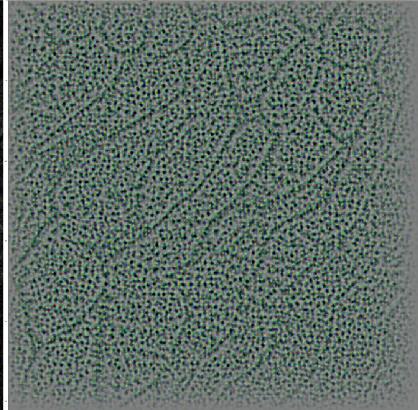
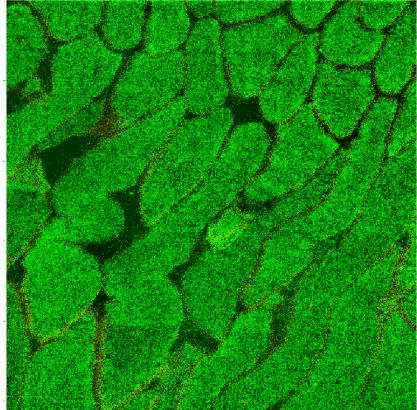


Model 3: ResNet50 trained on NDUFB8 channel

Label: controls
Predicted: controls

Input:NDUFB8

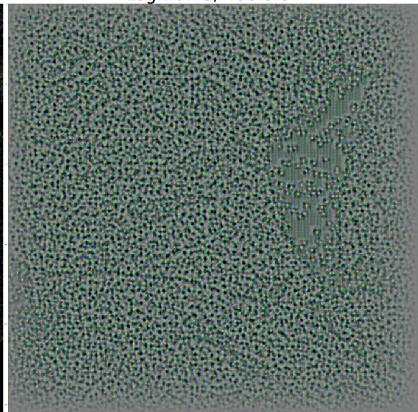
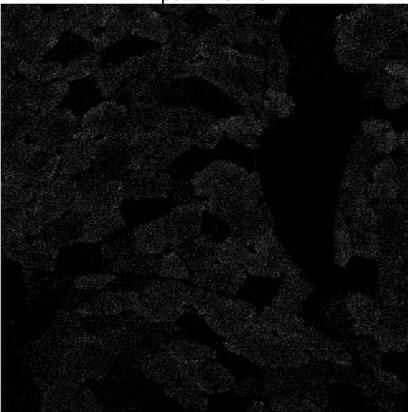
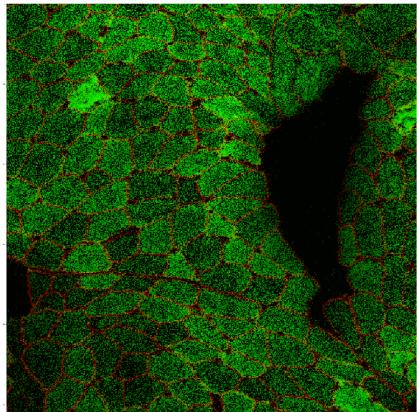
Method: Deconvnet
Logit:17.28,Prob:1.00



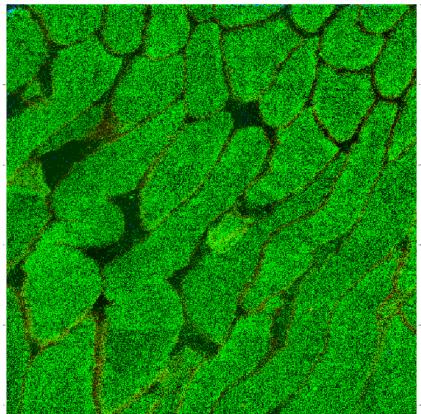
Label: patients
Predicted: patients

Input:NDUFB8

Method: Deconvnet
Logit:0.48,Prob:0.67

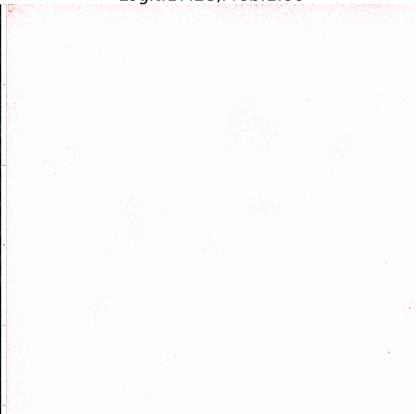
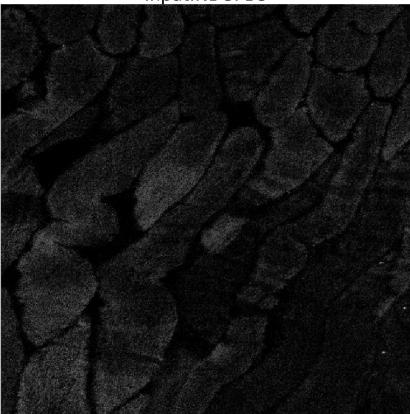


Label: controls
Predicted: controls

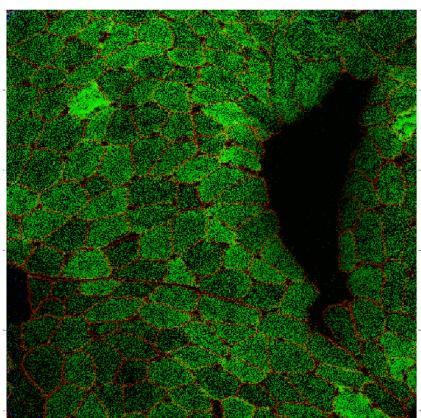


Input:NDUFB8

Method: DeepTaylor
Logit:17.28,Prob:1.00

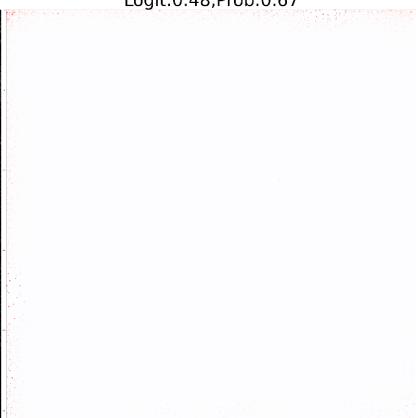
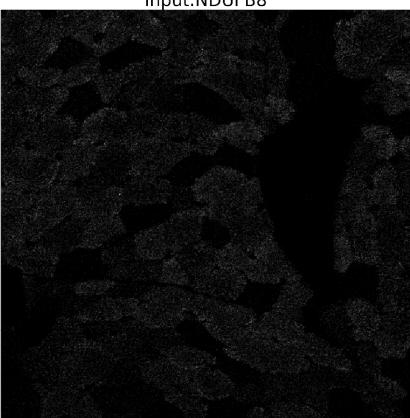


Label: patients
Predicted: patients

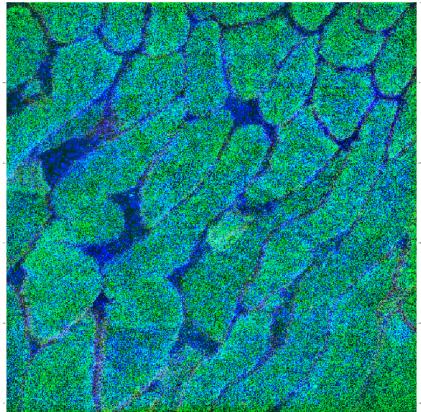


Input:NDUFB8

Method: DeepTaylor
Logit:0.48,Prob:0.67

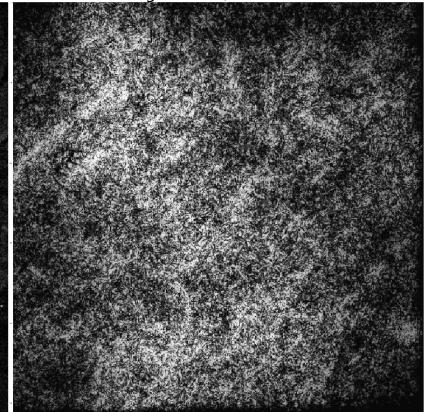
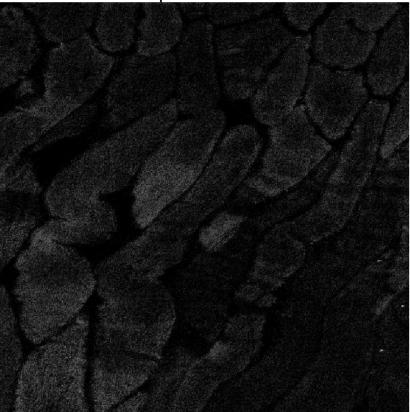


Label: controls
Predicted: controls

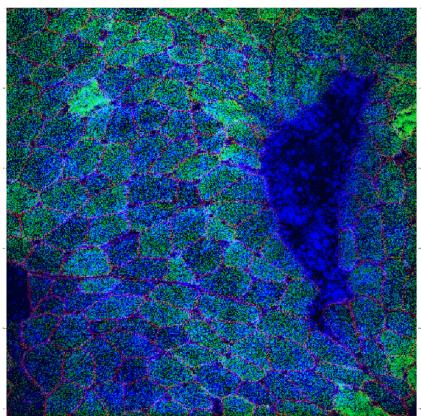


Input:NDUFB8

Method: Gradient
Logit:17.28,Prob:1.00

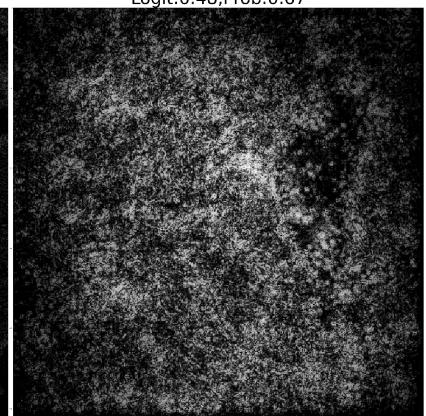


Label: patients
Predicted: patients

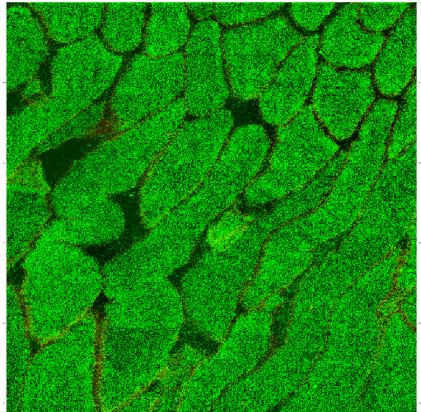


Input:NDUFB8

Method: Gradient
Logit:0.48,Prob:0.67

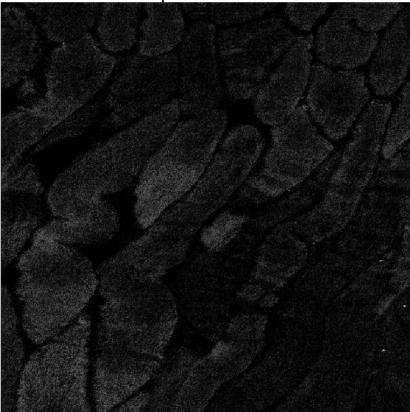


Label: controls
Predicted: controls

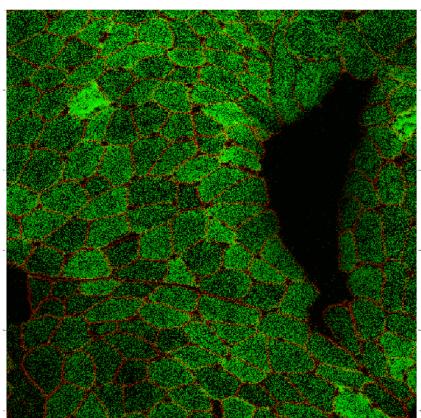


Input:NDUFB8

Method: Guided Backprop
Logit:17.28,Prob:1.00

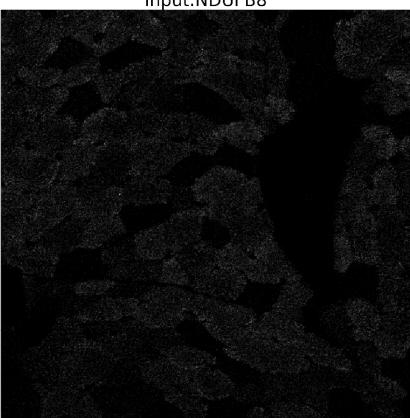


Label: patients
Predicted: patients

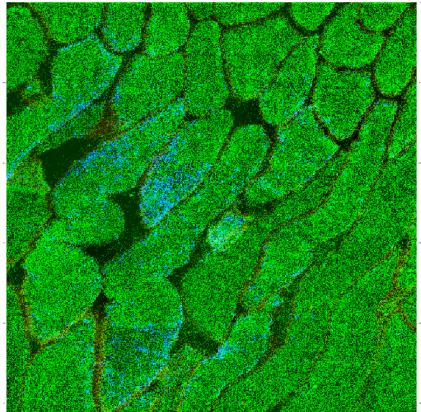


Input:NDUFB8

Method: Guided Backprop
Logit:0.48,Prob:0.67

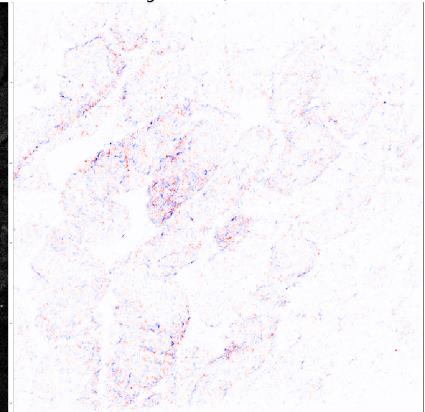
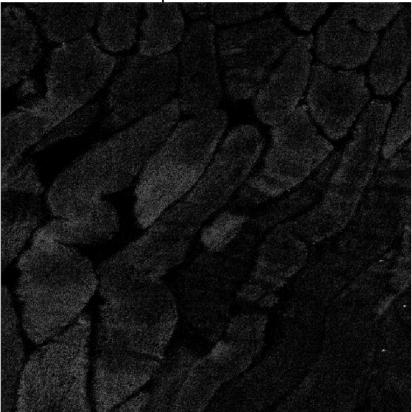


Label: controls
Predicted: controls

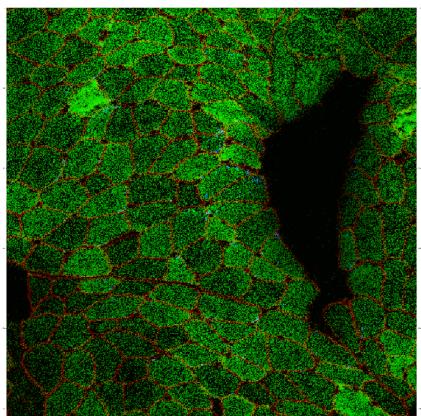


Input:NDUFB8

Method: Input * Gradient
Logit:17.28,Prob:1.00

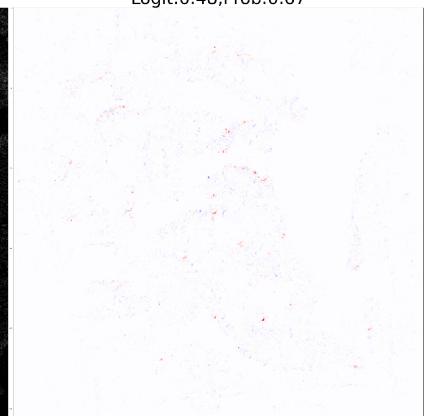
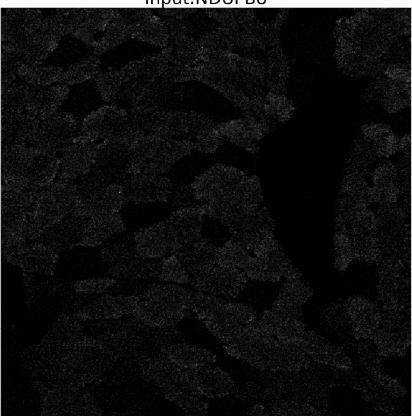


Label: patients
Predicted: patients

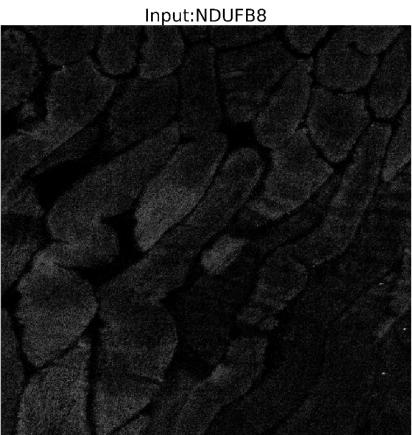
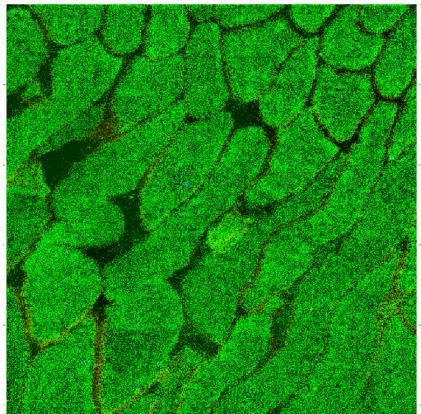


Input:NDUFB8

Method: Input * Gradient
Logit:0.48,Prob:0.67



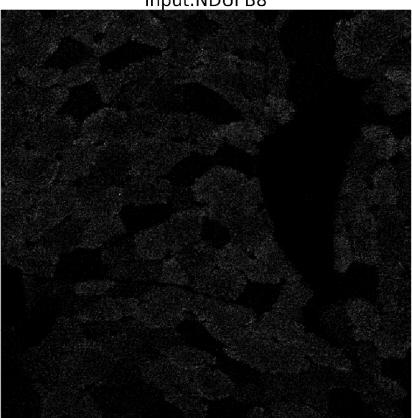
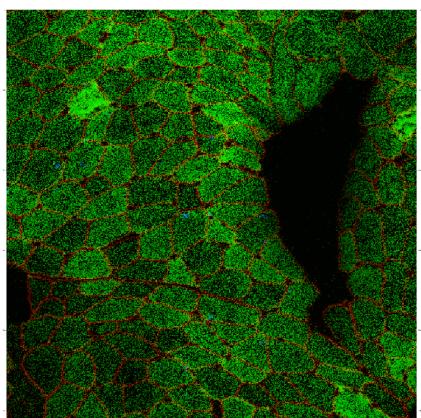
Label: controls
Predicted: controls



Method: LRP-Epsilon
Logit:17.28,Prob:1.00



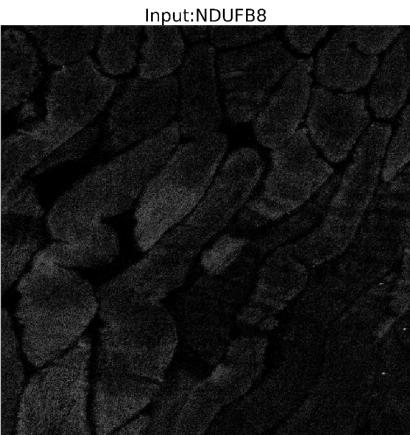
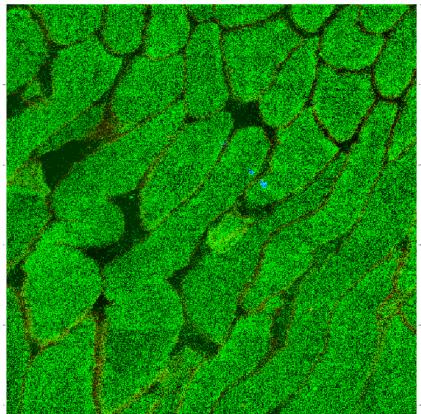
Label: patients
Predicted: patients



Method: LRP-Epsilon
Logit:0.48,Prob:0.67

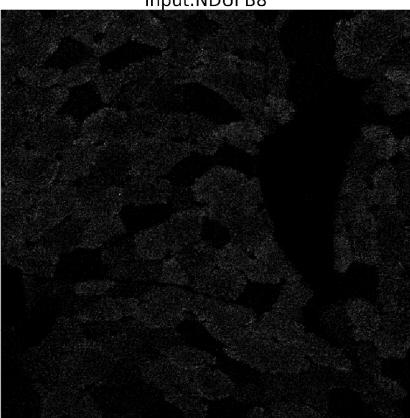
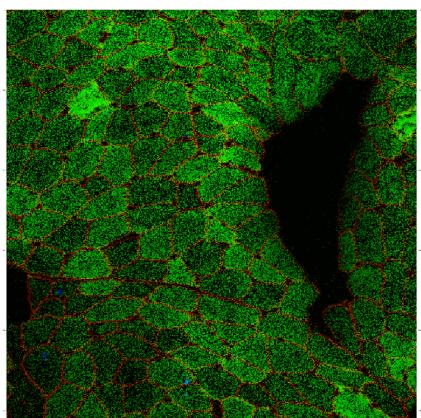


Label: controls
Predicted: controls



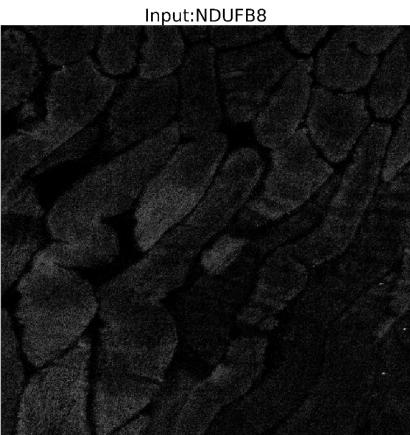
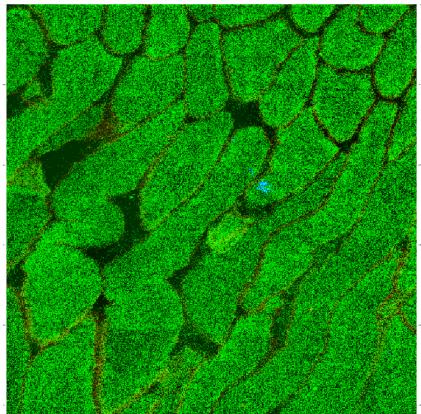
Method: LRP-PresetAFlat
Logit:17.28,Prob:1.00

Label: patients
Predicted: patients

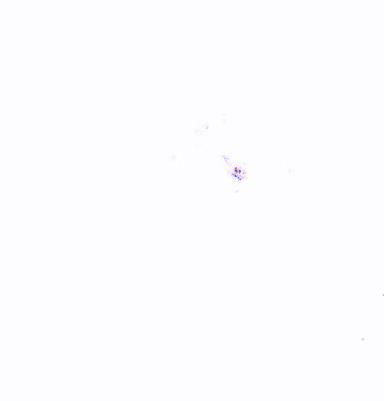


Method: LRP-PresetAFlat
Logit:0.48,Prob:0.67

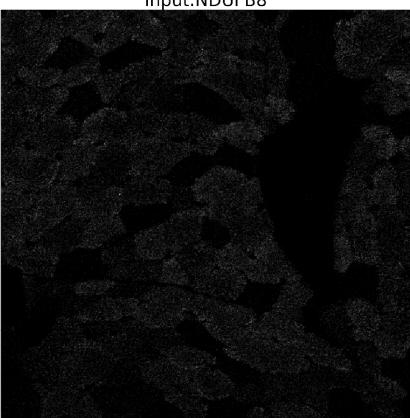
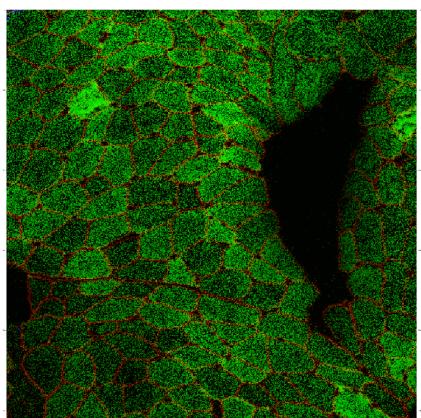
Label: controls
Predicted: controls



Method: LRP-PresetBFlat
Logit:17.28,Prob:1.00



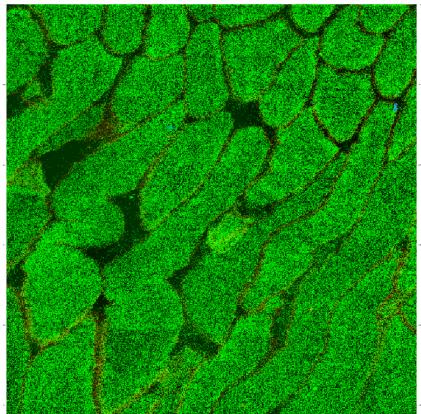
Label: patients
Predicted: patients



Method: LRP-PresetBFlat
Logit:0.48,Prob:0.67



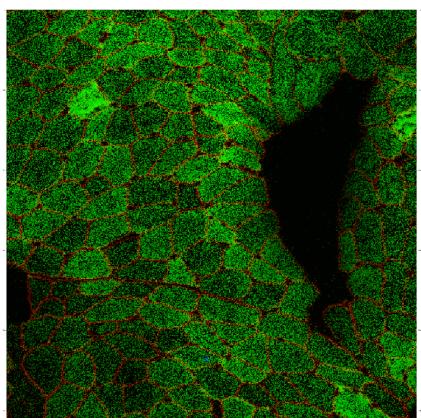
Label: controls
Predicted: controls



Input:NDUFB8

Method: LRP-Z
Logit:17.28,Prob:1.00

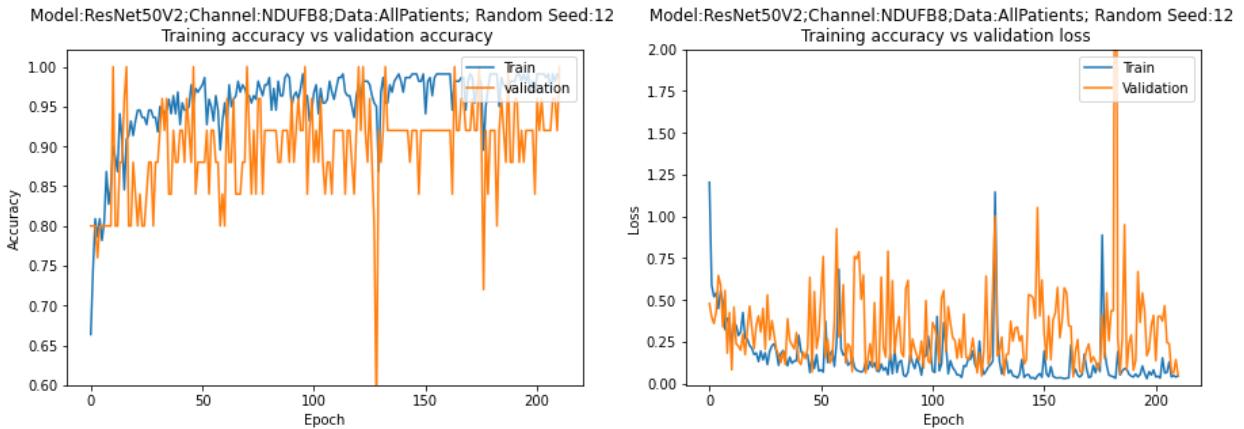
Label: patients
Predicted: patients



Input:NDUFB8

Method: LRP-Z
Logit:0.48,Prob:0.67

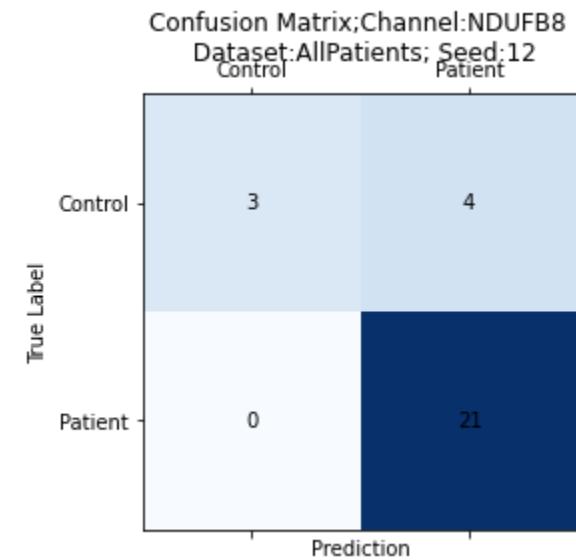
200 EPOCH patience

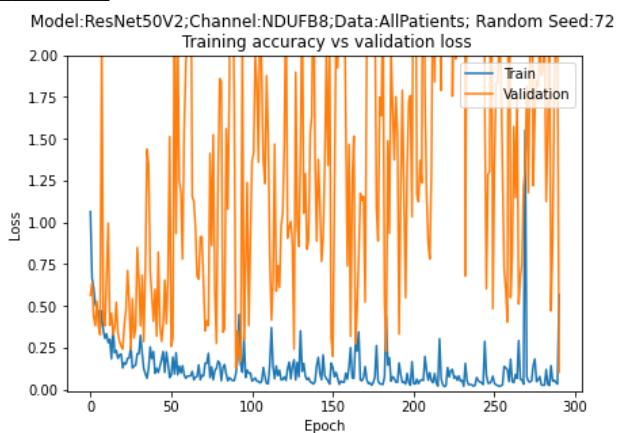
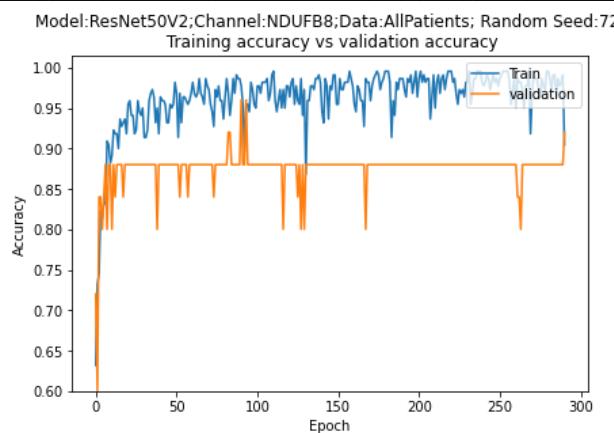
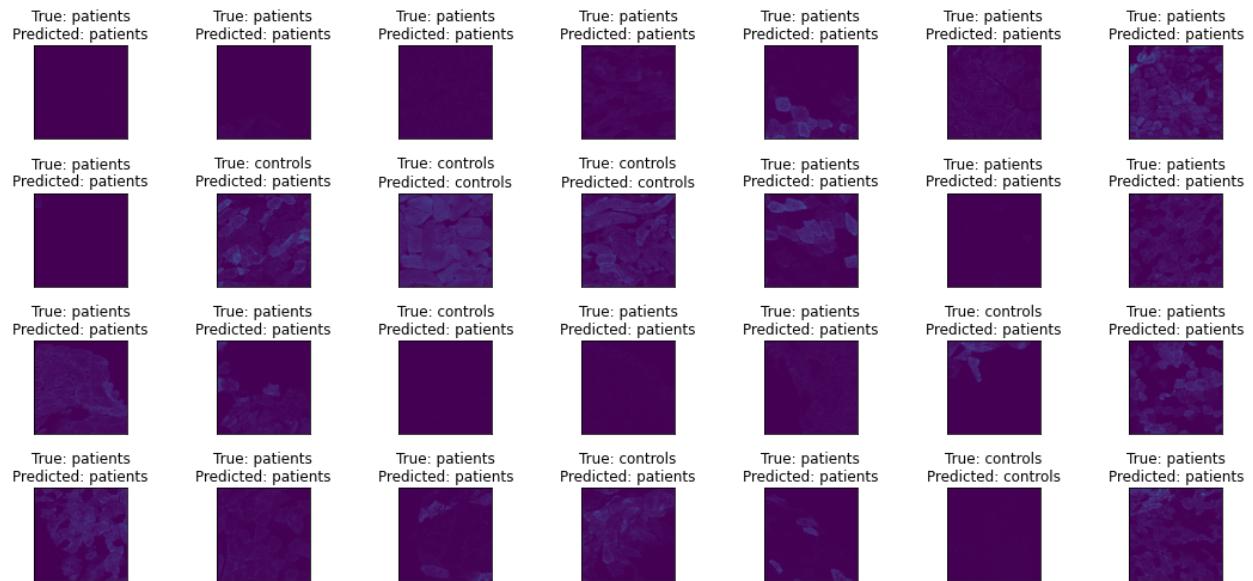


Test Loss: 0.35429
Test Accuracy: 85.71%

precision recall f1-score support

controls	1.00	0.43	0.60	7
patients	0.84	1.00	0.91	21
accuracy			0.86	28
macro avg	0.92	0.71	0.76	28
weighted avg	0.88	0.86	0.83	28



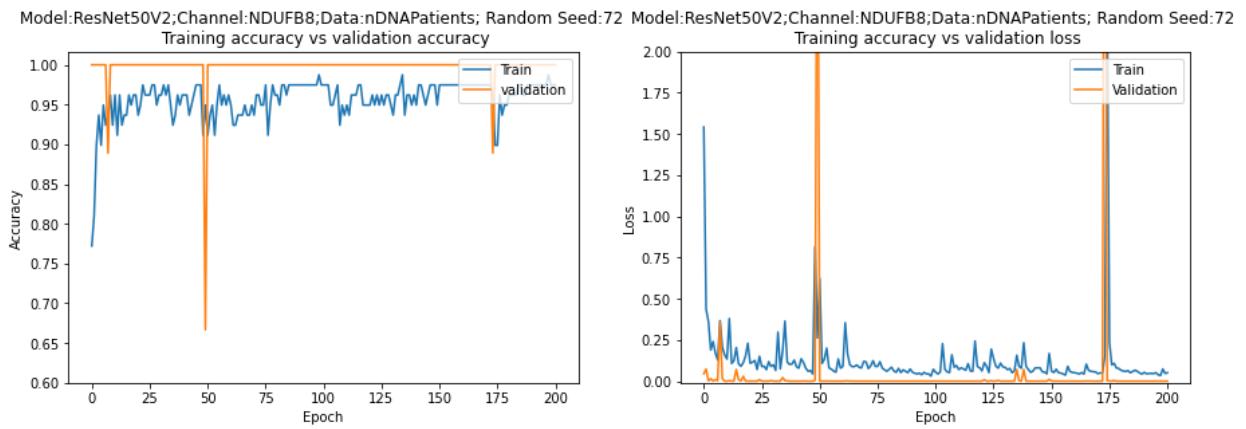
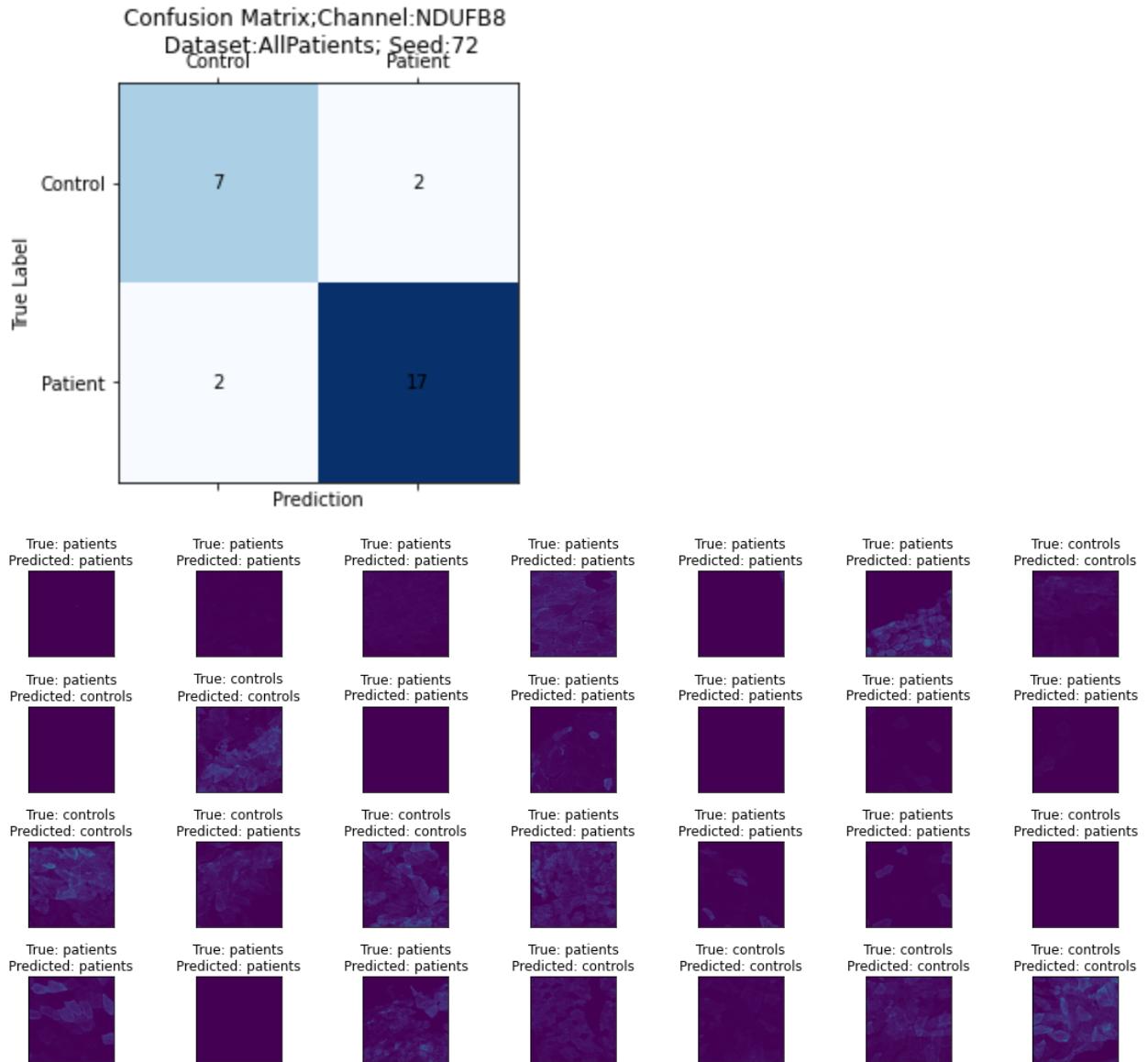


Test Loss: 0.43496

Test Accuracy: 85.71%

precision recall f1-score support

controls	0.78	0.78	0.78	9
patients	0.89	0.89	0.89	19
accuracy		0.86	0.86	28
macro avg	0.84	0.84	0.84	28
weighted avg	0.86	0.86	0.86	28



Test Loss: 0.32452

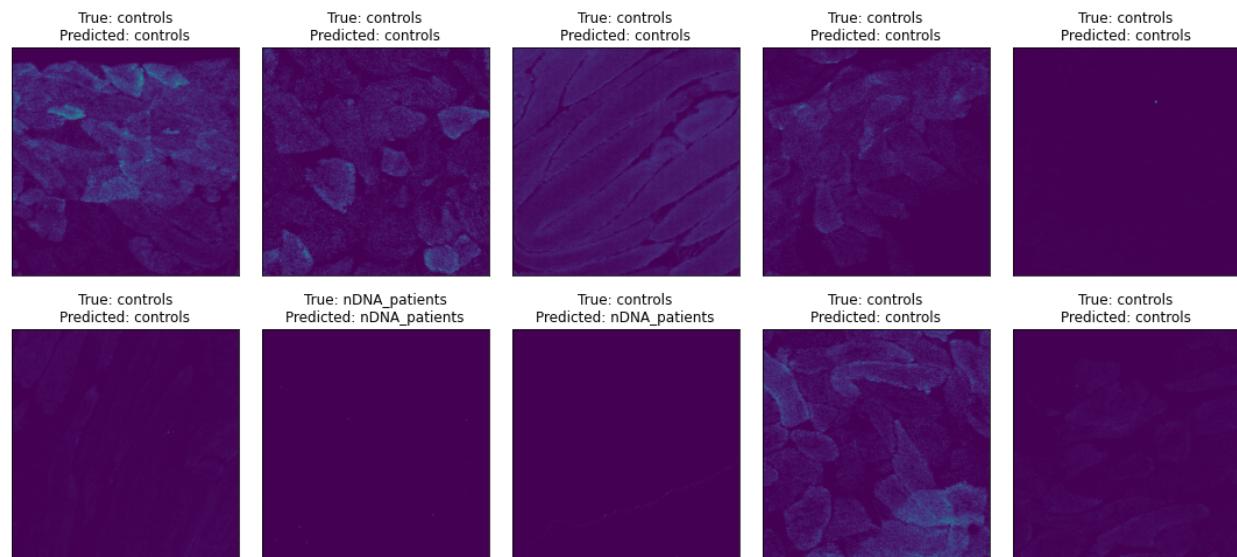
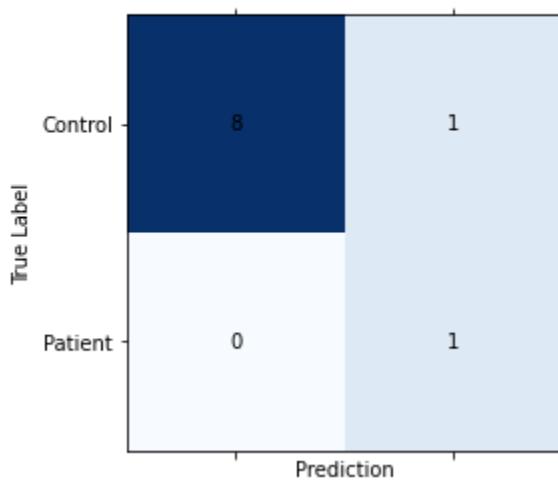
Test Accuracy: 90.00%

precision recall f1-score support

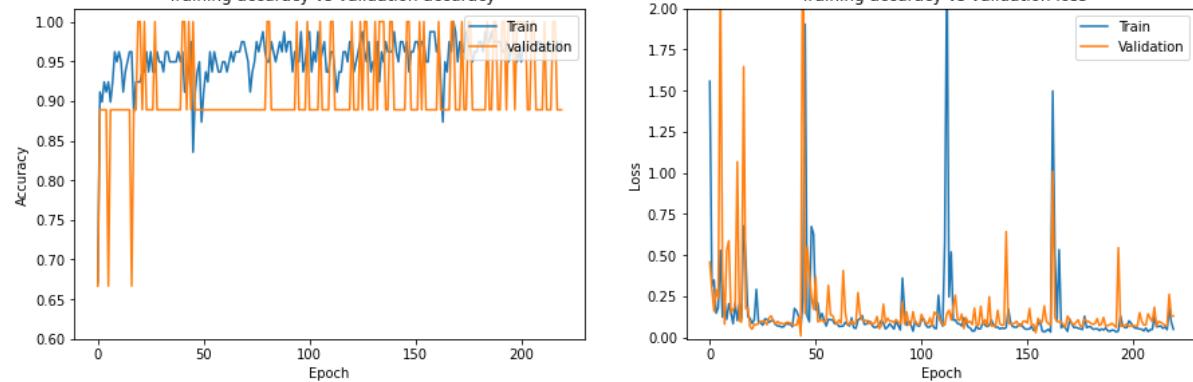
	controls	0.89	0.94	9
nDNA_patients	0.50	1.00	0.67	1

	accuracy	0.90	10
macro avg	0.75	0.94	0.80
weighted avg	0.95	0.90	0.91

Confusion Matrix; Channel: NDUFB8
Dataset: nDNAPatients; Seed: 72



Model:ResNet50V2;Channel:NDUFB8;Data:nDNAPatients; Random Seed:12 Model:ResNet50V2;Channel:NDUFB8;Data:nDNAPatients; Random Seed:12

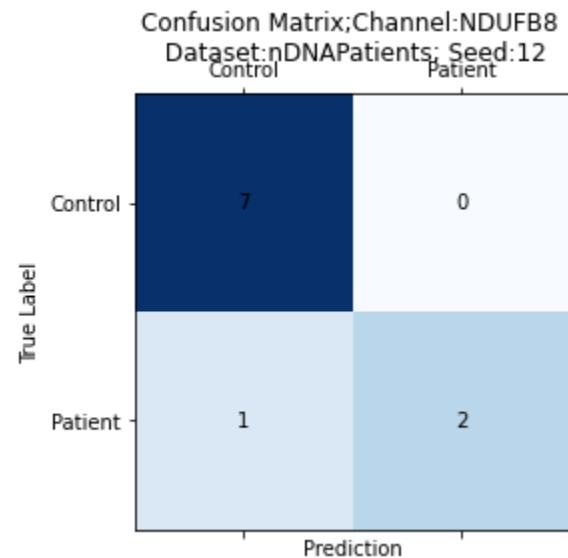


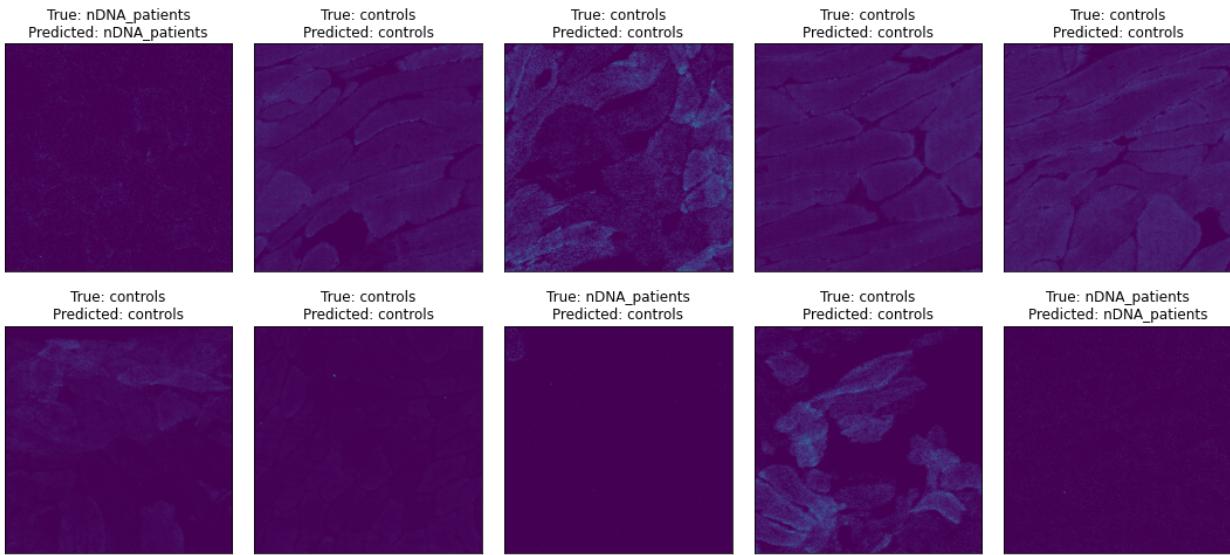
Test Loss: 0.08124

Test Accuracy: 90.00%

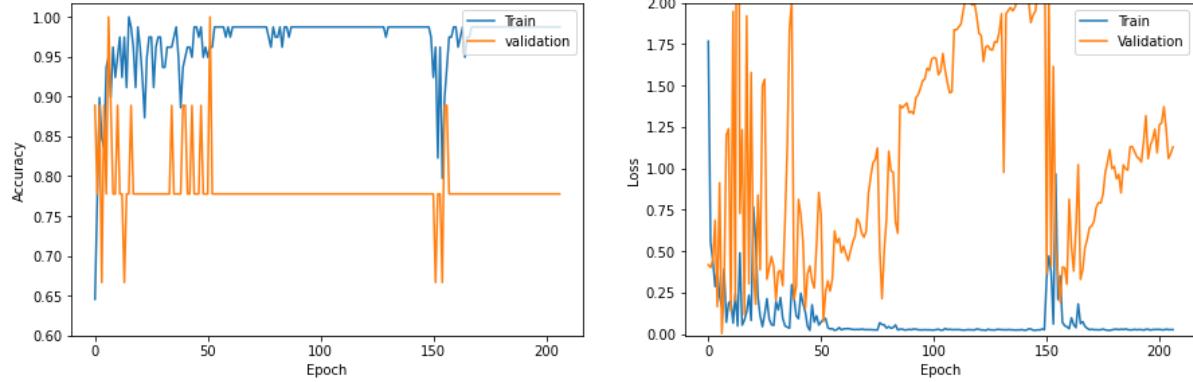
precision recall f1-score support

controls	0.88	1.00	0.93	7
nDNA_patients	1.00	0.67	0.80	3
accuracy		0.90	10	
macro avg	0.94	0.83	0.87	10
weighted avg	0.91	0.90	0.89	10



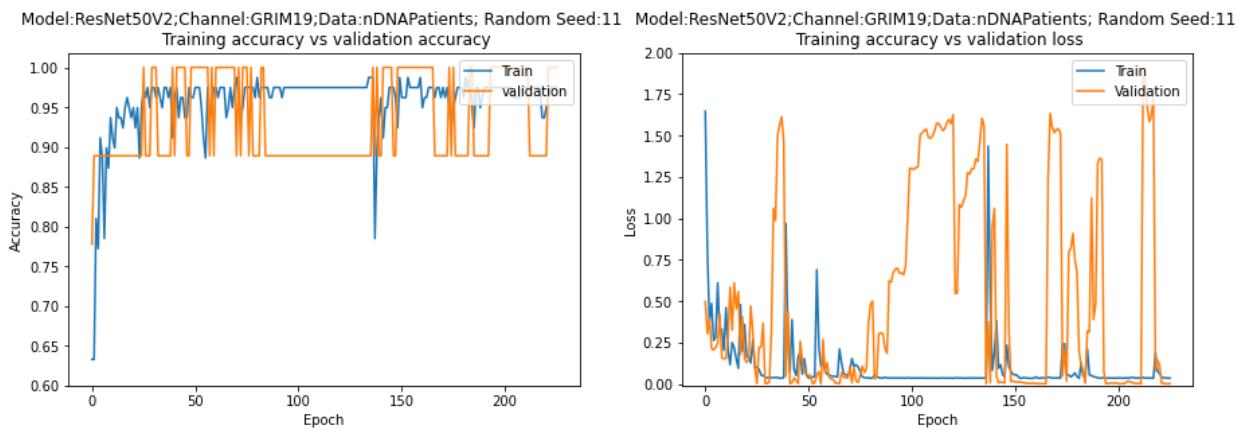
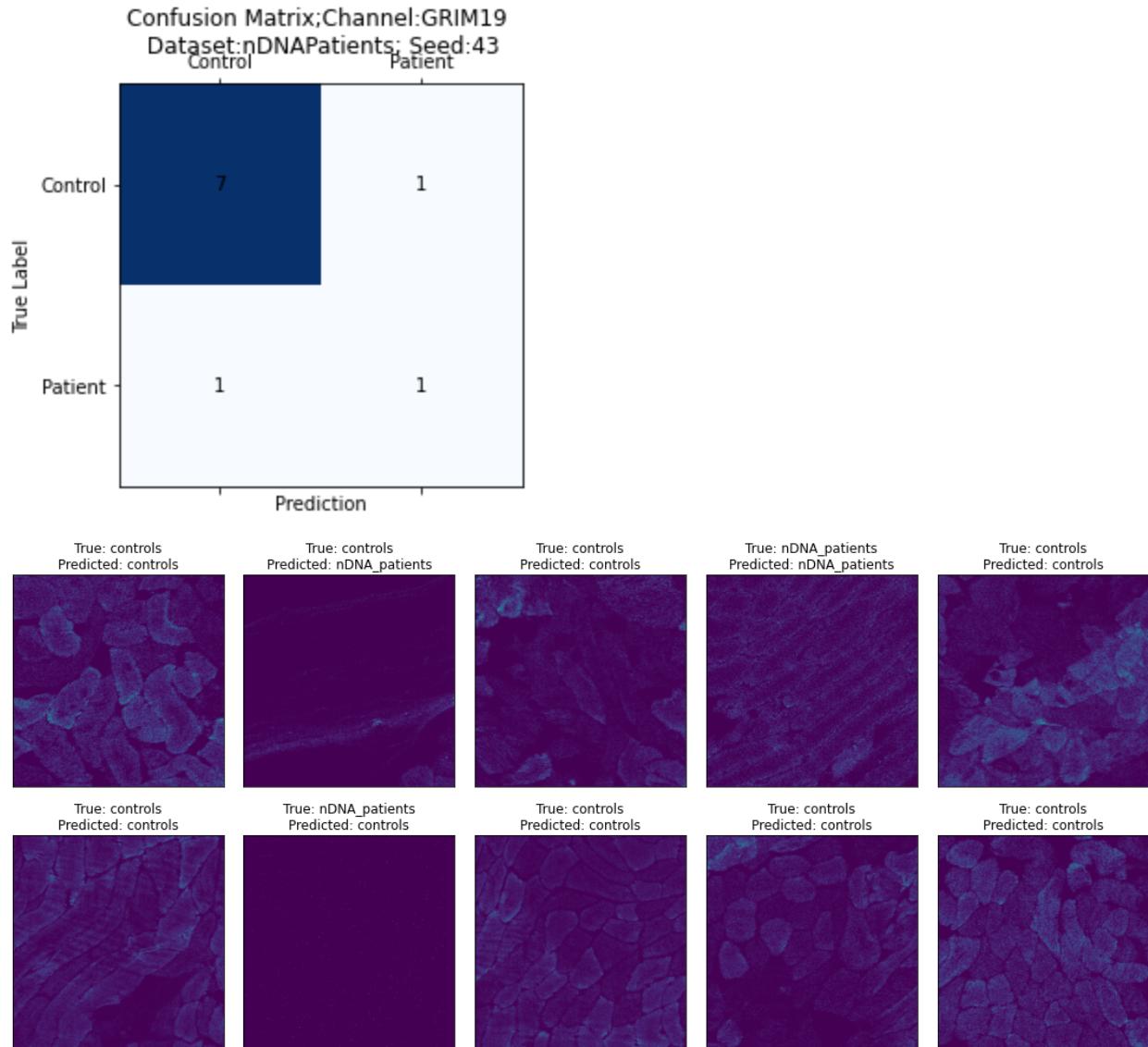


Model:ResNet50V2;Channel:GRIM19;Data:nDNAPatients; Random Seed:43 Model:ResNet50V2;Channel:GRIM19;Data:nDNAPatients; Random Seed:43
Training accuracy vs validation accuracy Training accuracy vs validation loss



precision recall f1-score support

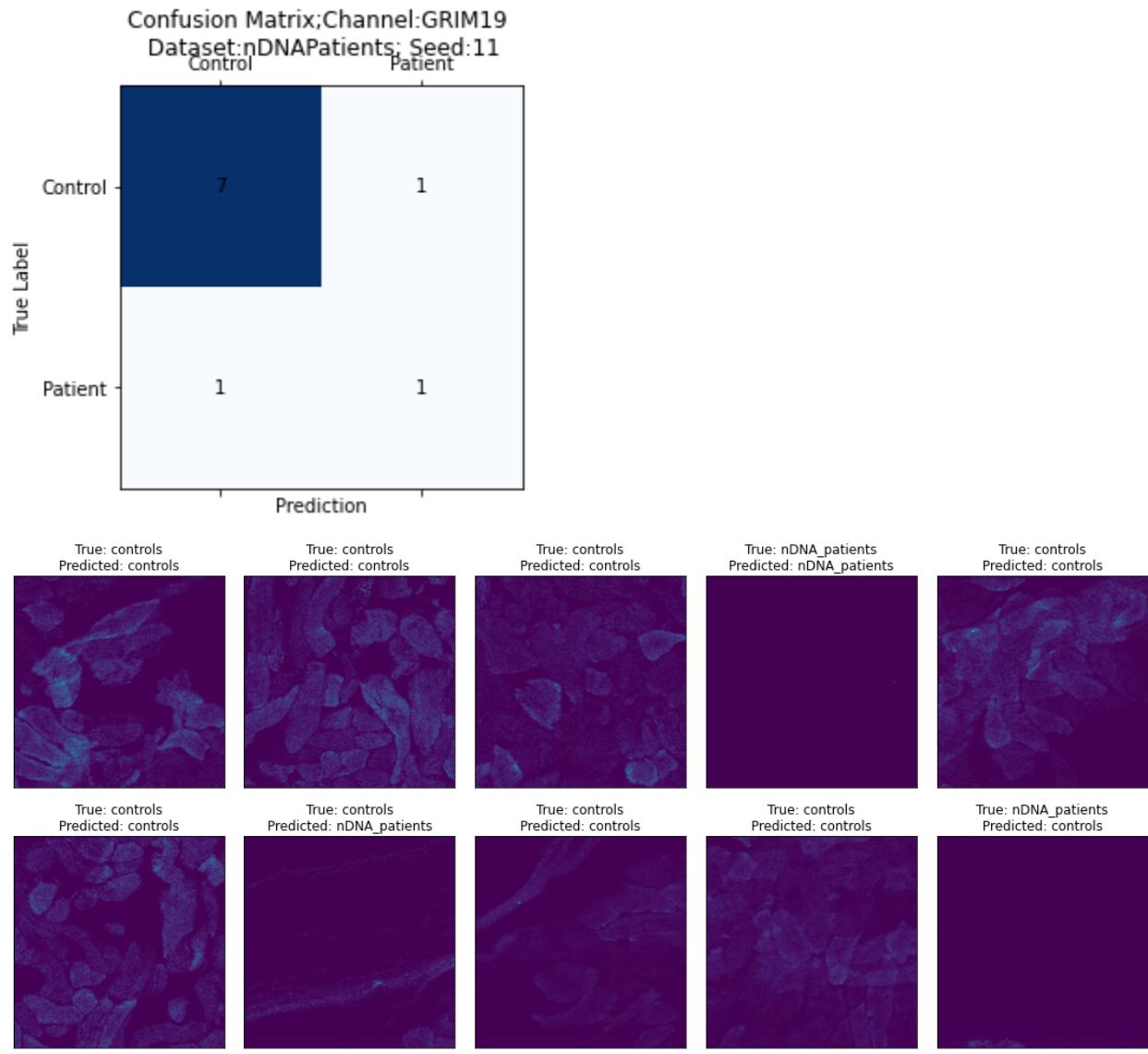
controls	0.88	0.88	0.88	8
nDNA_patients	0.50	0.50	0.50	2
accuracy		0.80	10	
macro avg	0.69	0.69	0.69	10
weighted avg	0.80	0.80	0.80	10

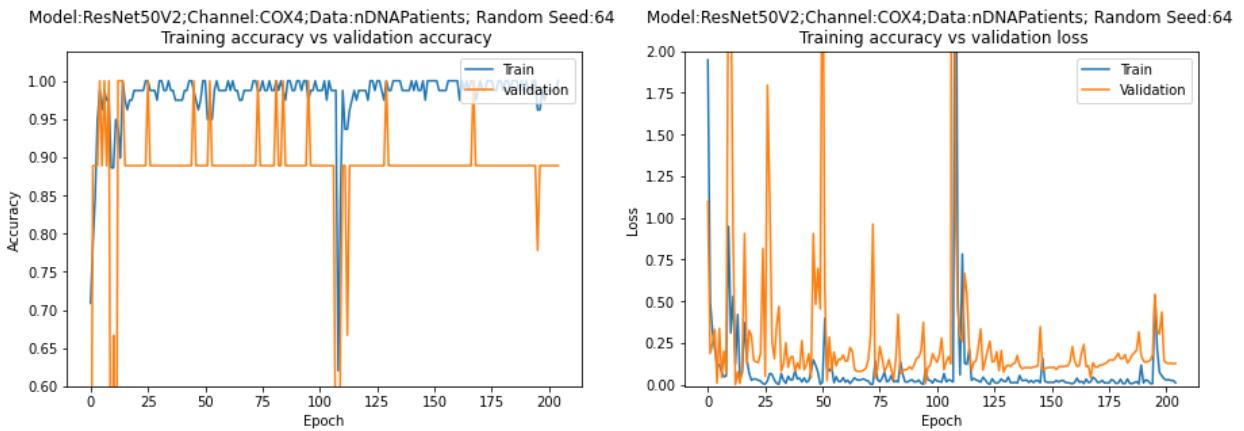


Test Loss: 0.55072

Test Accuracy: 80.00%

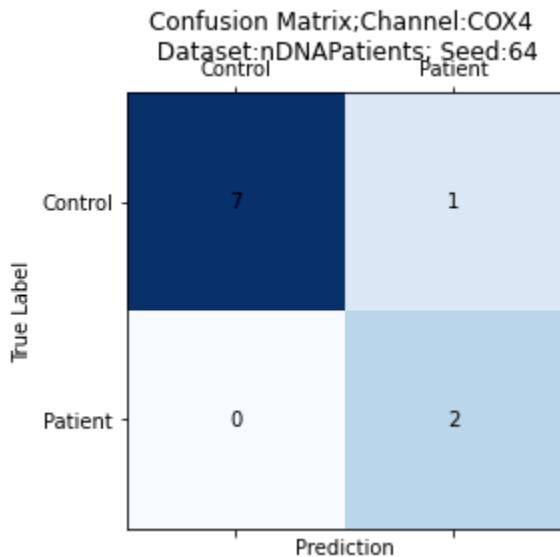
	precision	recall	f1-score	support
controls	0.88	0.88	0.88	8
nDNA_patients	0.50	0.50	0.50	2
accuracy		0.80	10	
macro avg	0.69	0.69	0.69	10
weighted avg	0.80	0.80	0.80	10

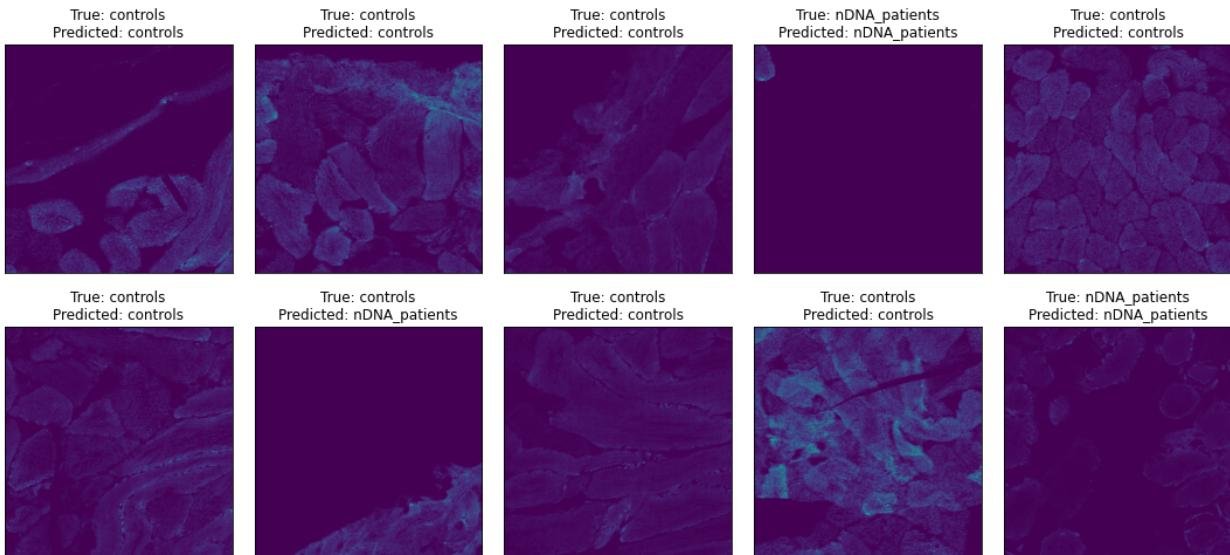




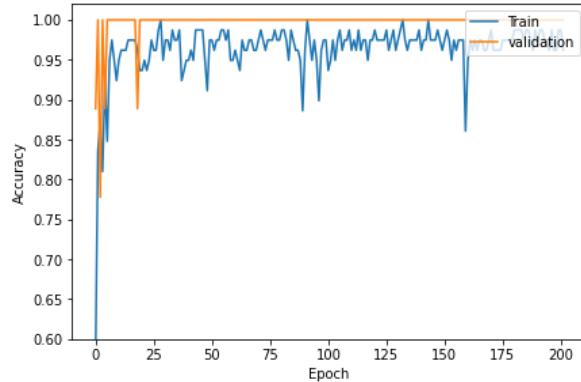
Test Loss: 0.13780
Test Accuracy: 90.00%

	precision	recall	f1-score	support
controls	1.00	0.88	0.93	8
nDNA_patients	0.67	1.00	0.80	2
accuracy		0.90	10	
macro avg	0.83	0.94	0.87	10
weighted avg	0.93	0.90	0.91	10

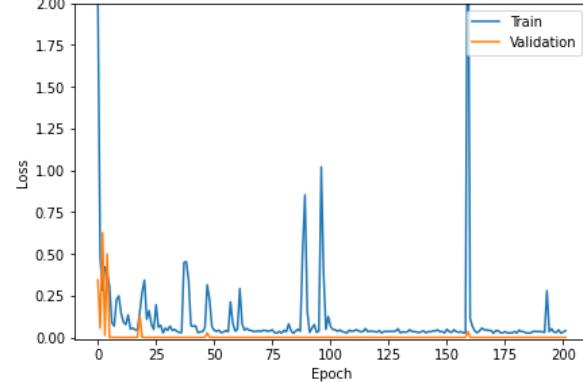




Model:ResNet50V2;Channel:COX4;Data:nDNAPatients; Random Seed:17
Training accuracy vs validation accuracy

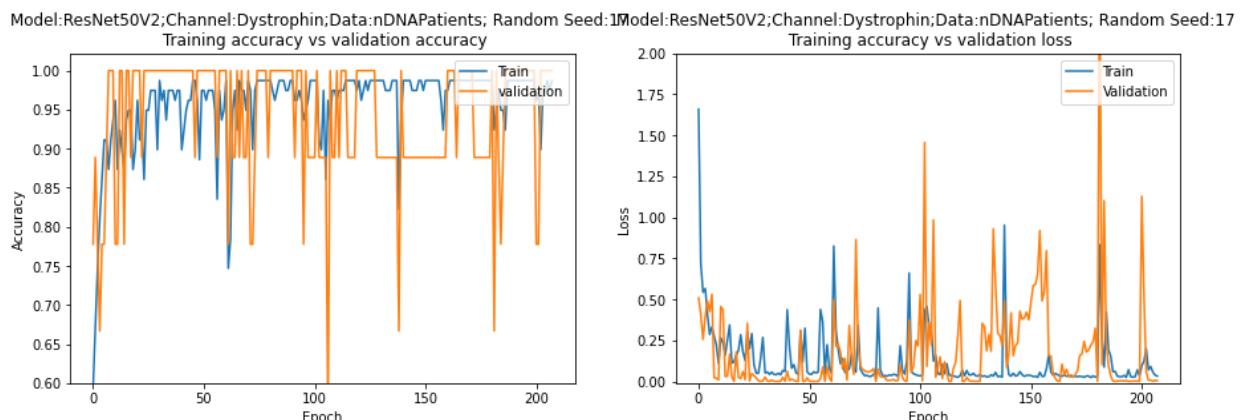
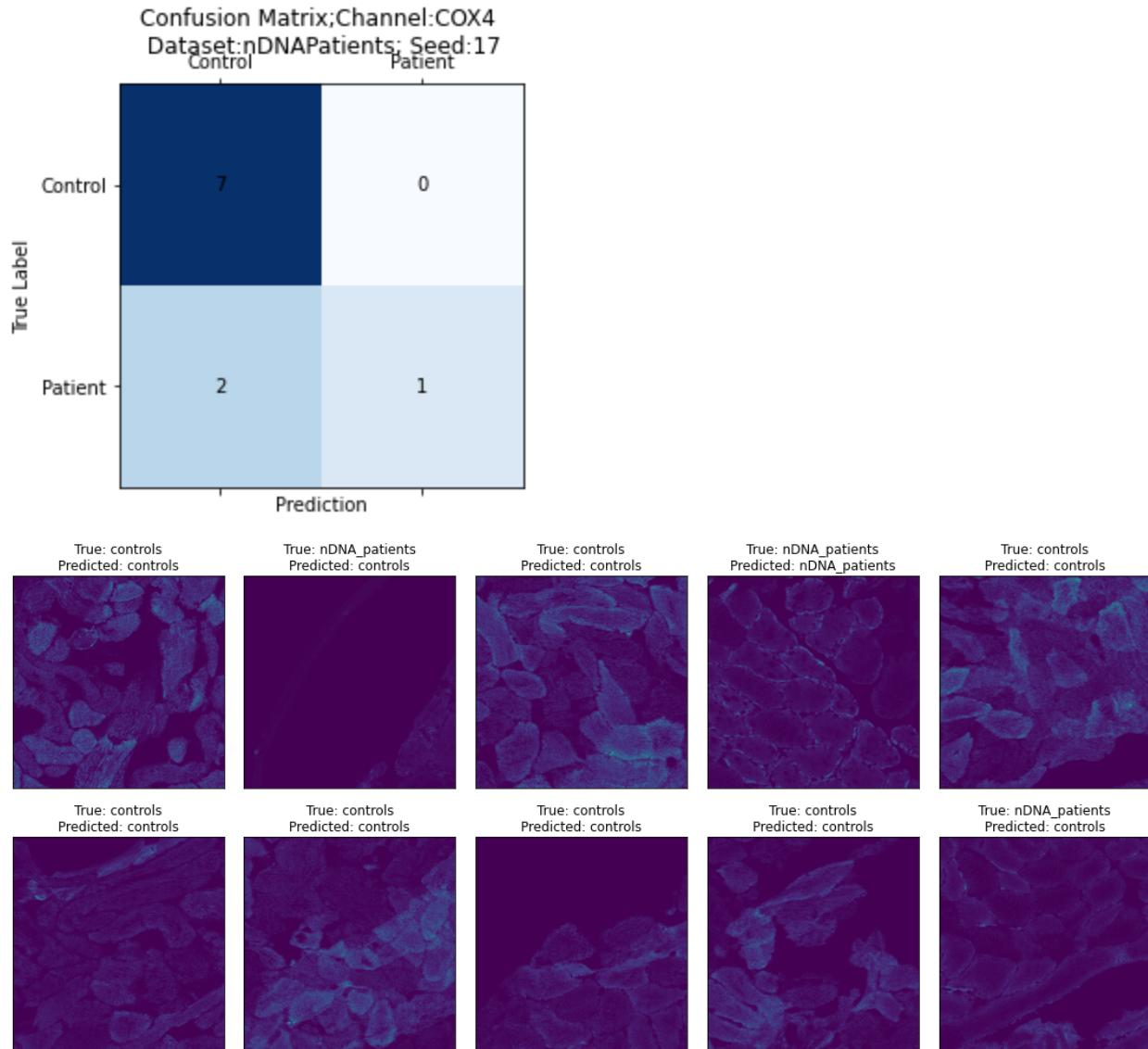


Model:ResNet50V2;Channel:COX4;Data:nDNAPatients; Random Seed:17
Training accuracy vs validation loss



Test Loss: 0.52384
Test Accuracy: 80.00%

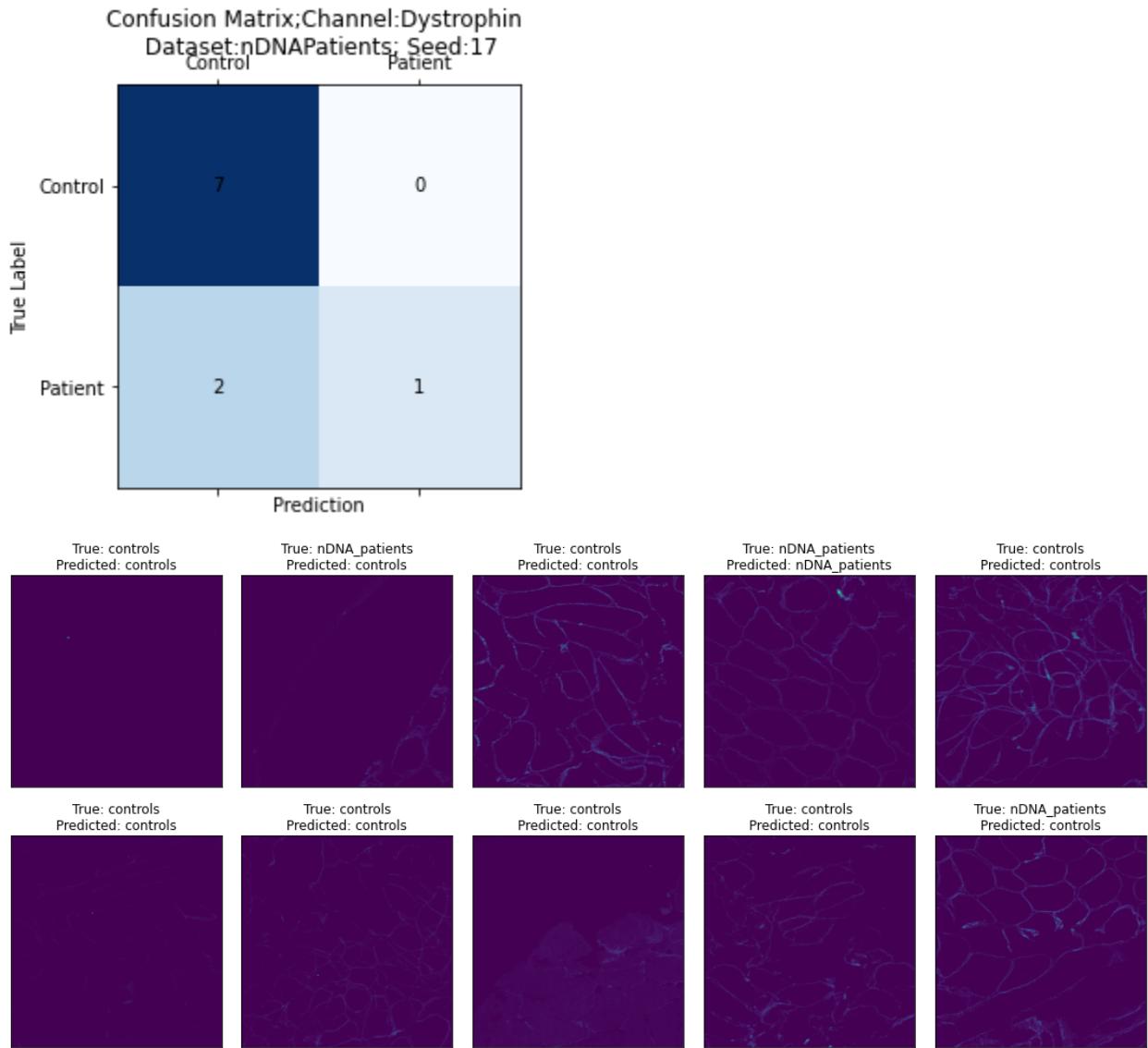
	precision	recall	f1-score	support
controls	0.78	1.00	0.88	7
nDNA_patients	1.00	0.33	0.50	3
accuracy			0.80	10
macro avg	0.89	0.67	0.69	10
weighted avg	0.84	0.80	0.76	10



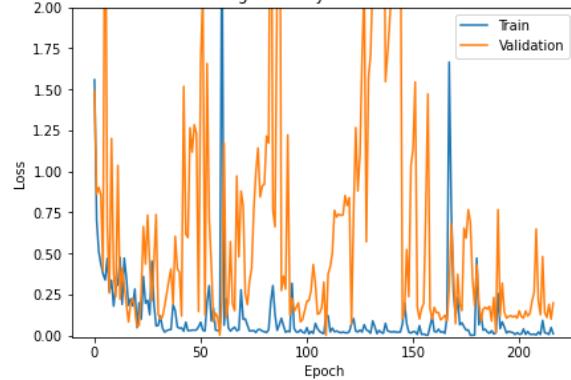
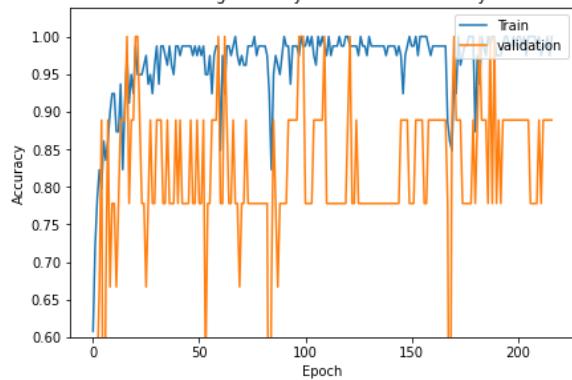
Test Loss: 1.16276
Test Accuracy: 80.00%

precision recall f1-score support

	precision	recall	f1-score	support
controls	0.78	1.00	0.88	7
nDNA_patients	1.00	0.33	0.50	3
accuracy			0.80	10
macro avg	0.89	0.67	0.69	10
weighted avg	0.84	0.80	0.76	10



Model:ResNet50V2;Channel:Dystrophin;Data:nDNAPatients; Random Seed:64 Model:ResNet50V2;Channel:Dystrophin;Data:nDNAPatients; Random Seed:64



Test Loss: 1.06985

Test Accuracy: 90.00%

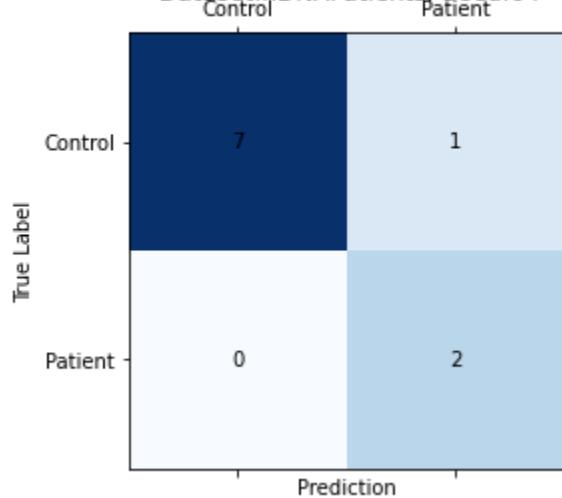
precision recall f1-score support

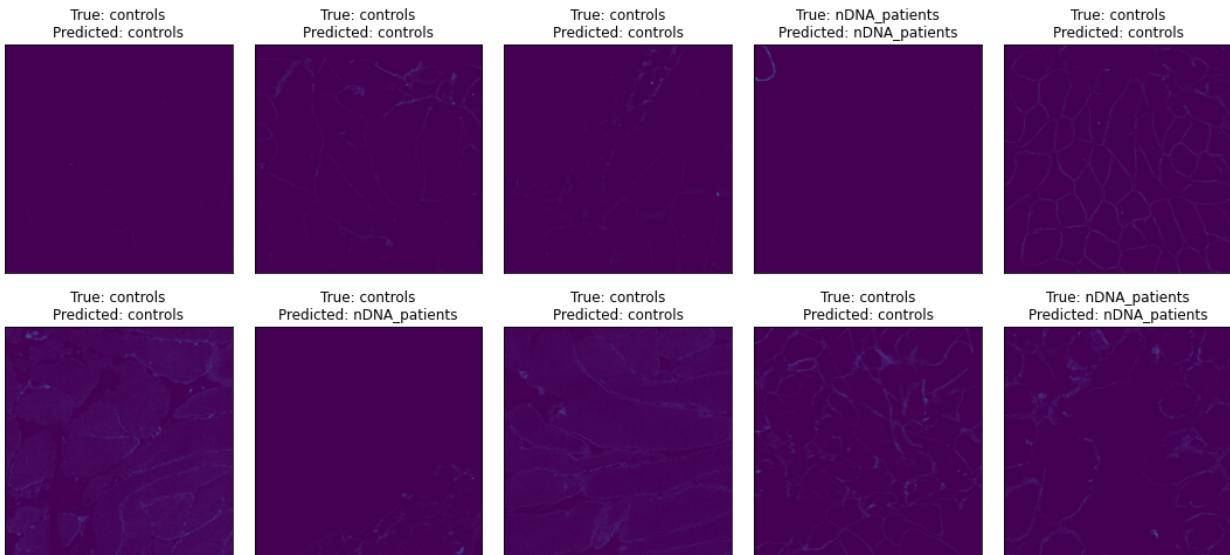
controls	1.00	0.88	0.93	8
nDNA_patients	0.67	1.00	0.80	2

accuracy		0.90	10	
macro avg	0.83	0.94	0.87	10
weighted avg	0.93	0.90	0.91	10

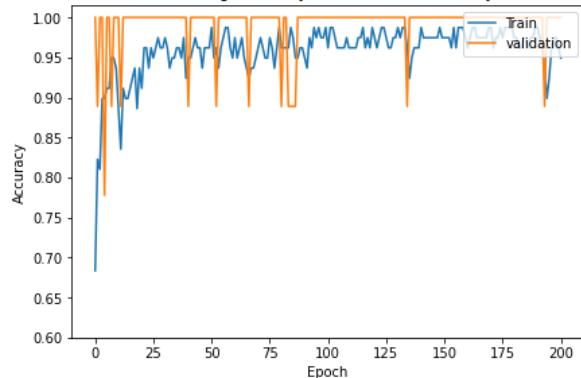
Confusion Matrix; Channel:Dystrophin

Dataset:nDNAPatients; Seed:64

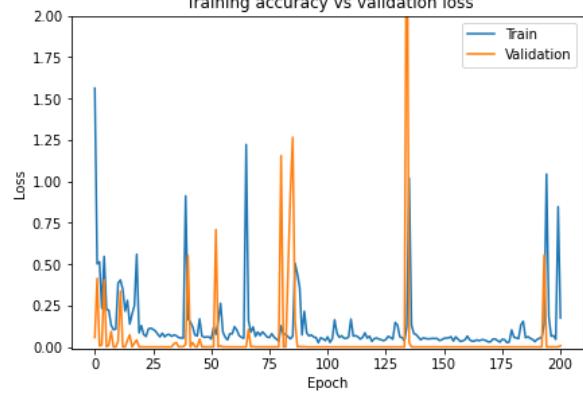




Model:ResNet50V2;Channel:MTCO1;Data:nDNAPatients; Random Seed:17
Training accuracy vs validation accuracy

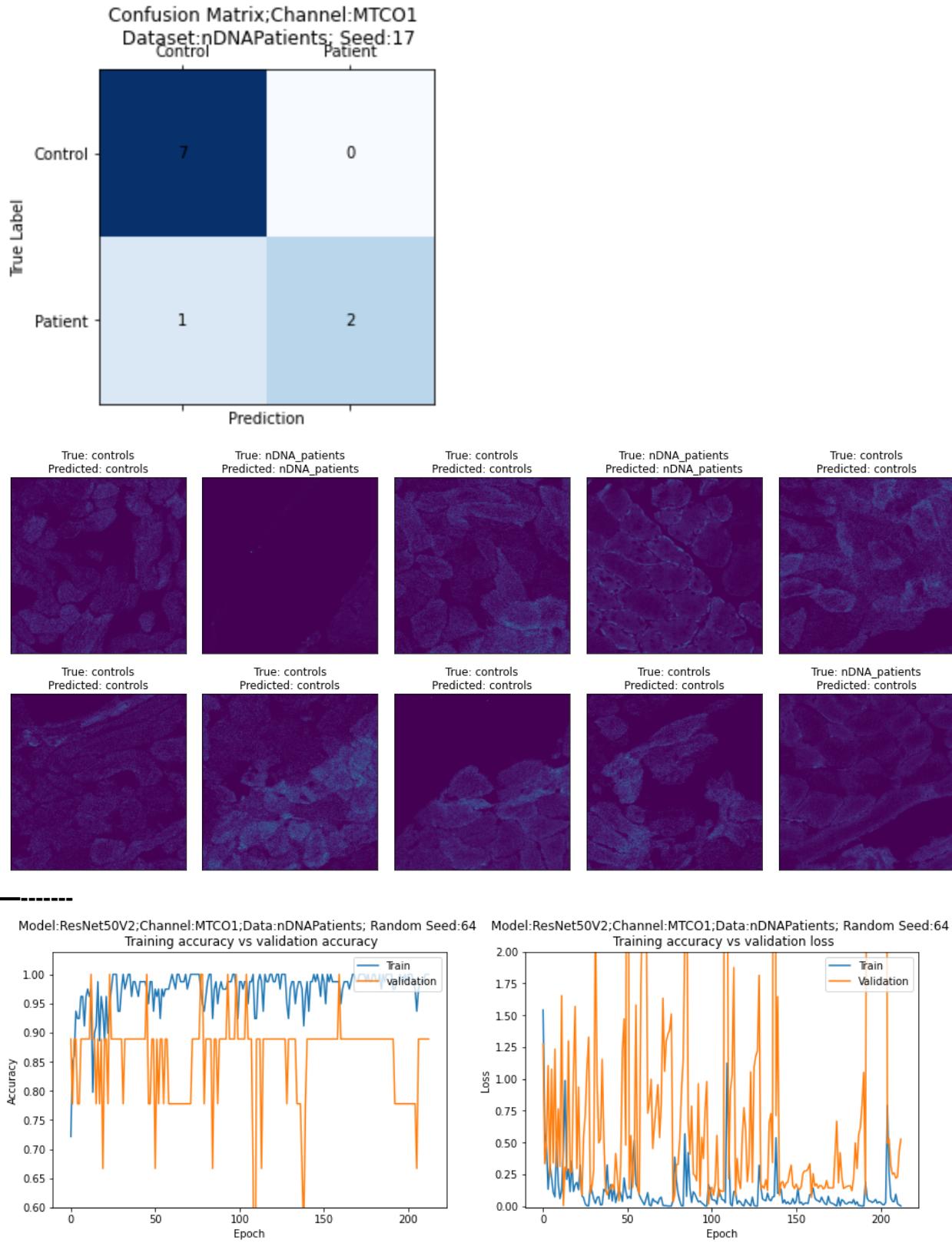


Model:ResNet50V2;Channel:MTCO1;Data:nDNAPatients; Random Seed:17
Training accuracy vs validation loss



Test Loss: 0.14346
Test Accuracy: 90.00%

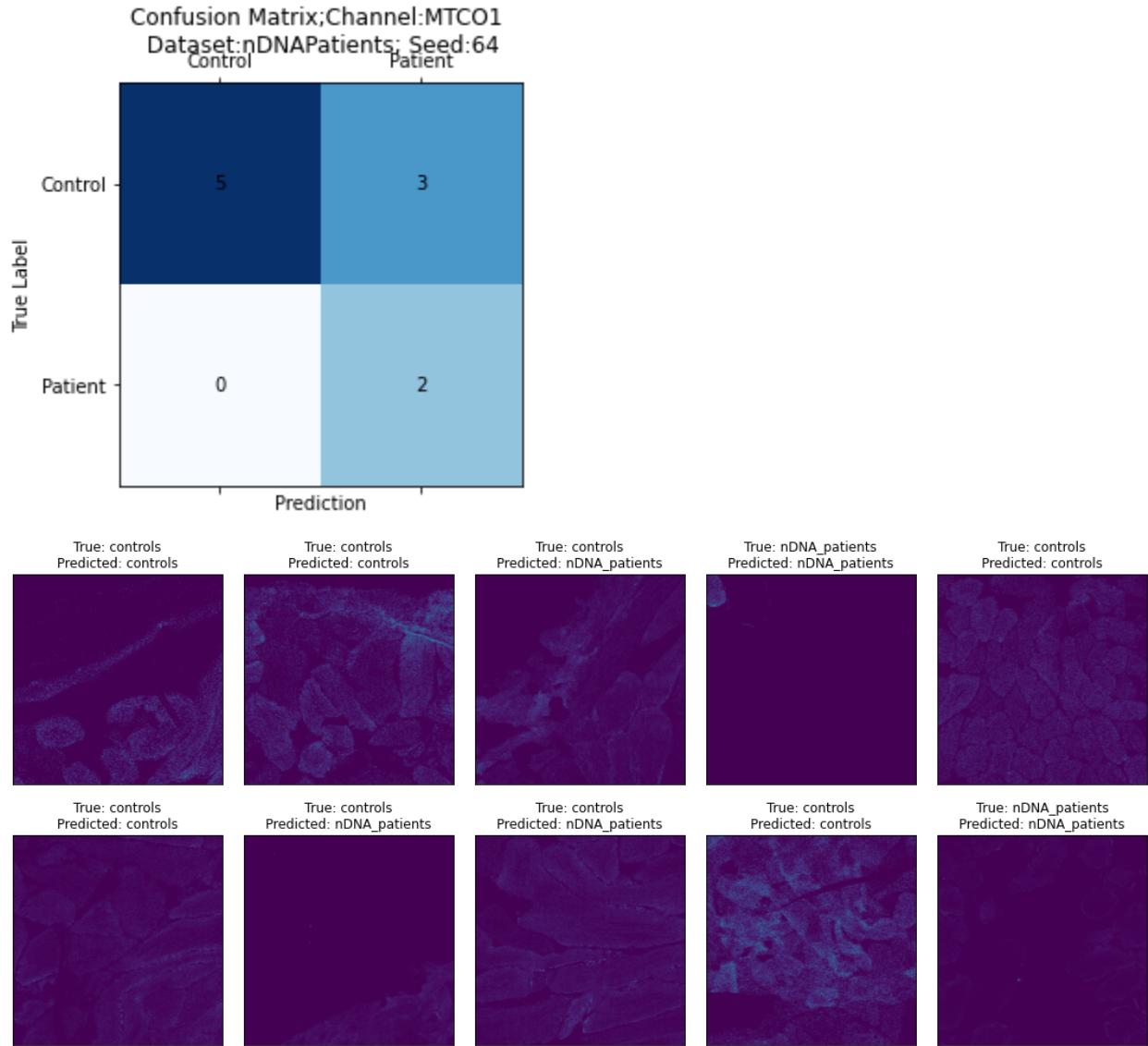
	precision	recall	f1-score	support
controls	0.88	1.00	0.93	7
nDNA_patients	1.00	0.67	0.80	3
accuracy		0.90	0.90	10
macro avg	0.94	0.83	0.87	10
weighted avg	0.91	0.90	0.89	10



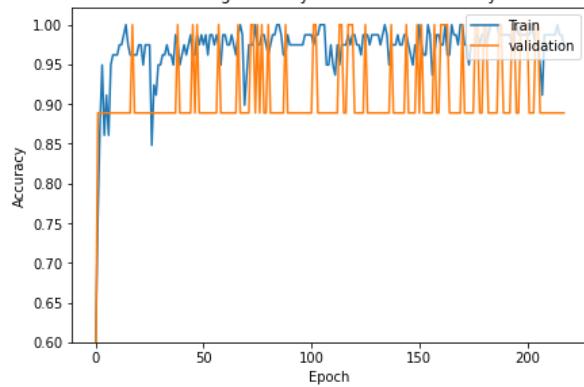
Test Loss: 3.38885
Test Accuracy: 70.00%

precision recall f1-score support

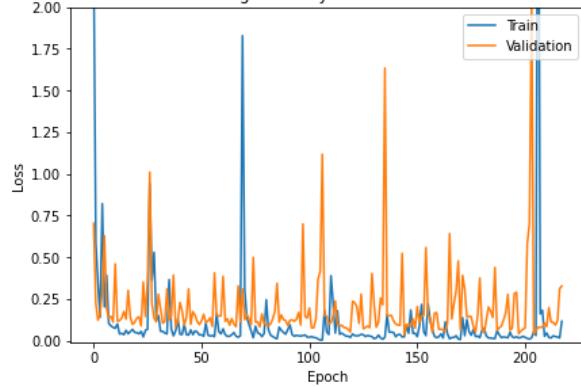
	precision	recall	f1-score	support
controls	1.00	0.62	0.77	8
nDNA_patients	0.40	1.00	0.57	2
accuracy		0.70	0.70	10
macro avg	0.70	0.81	0.67	10
weighted avg	0.88	0.70	0.73	10



Model:ResNet50V2;Channel:OSCP;Data:nDNAPatients; Random Seed:34
Training accuracy vs validation accuracy



Model:ResNet50V2;Channel:OSCP;Data:nDNAPatients; Random Seed:34
Training accuracy vs validation loss

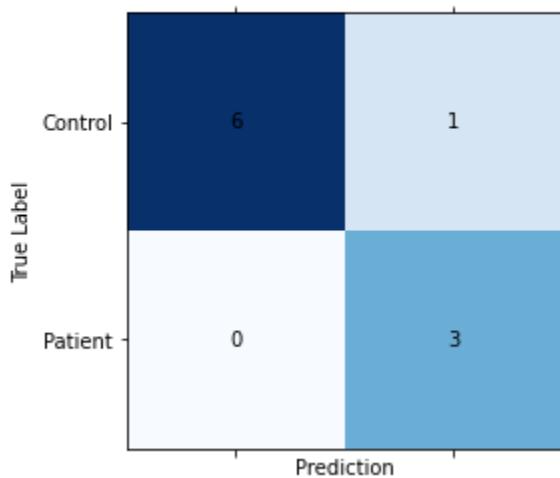


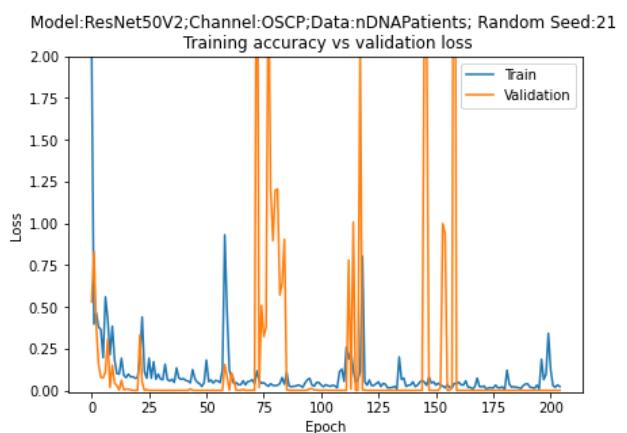
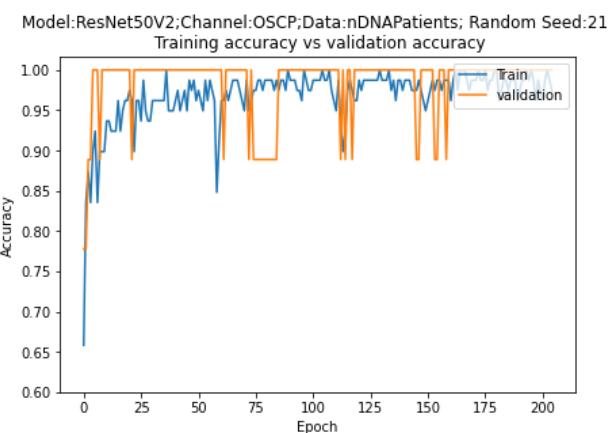
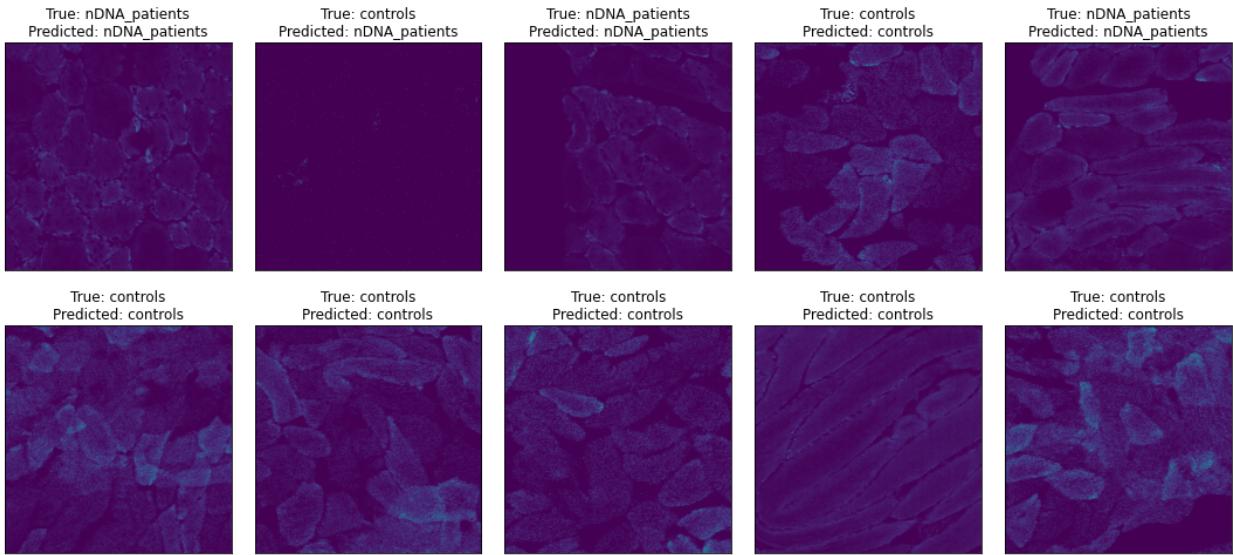
Test Loss: 0.07878

Test Accuracy: 90.00%

	precision	recall	f1-score	support
controls	1.00	0.86	0.92	7
nDNA_patients	0.75	1.00	0.86	3
accuracy		0.90	10	
macro avg	0.88	0.93	0.89	10
weighted avg	0.93	0.90	0.90	10

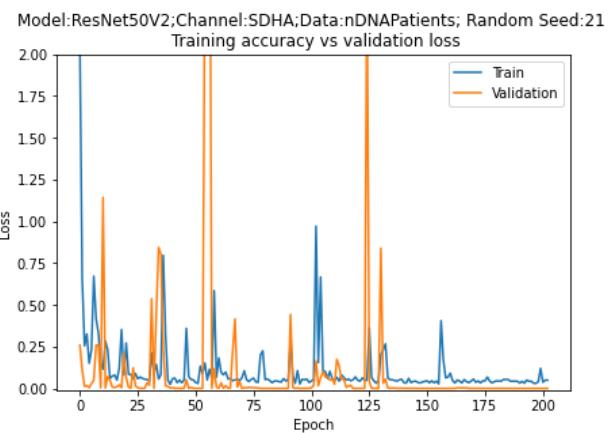
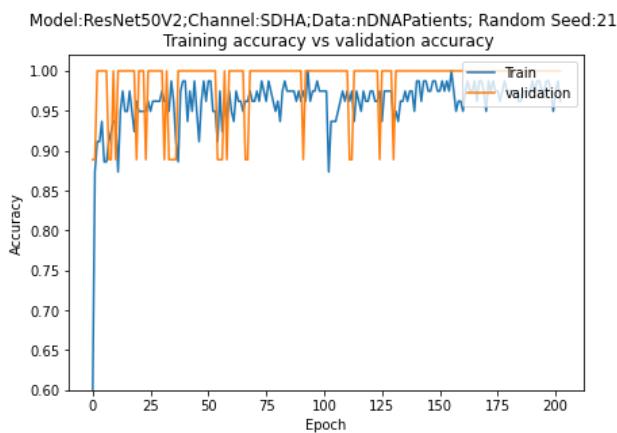
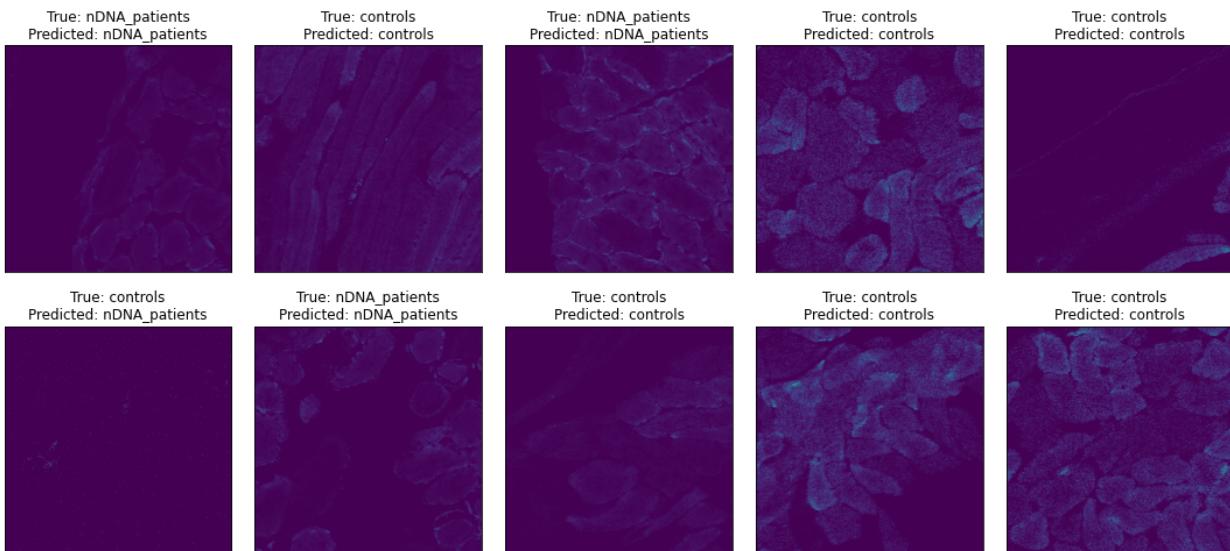
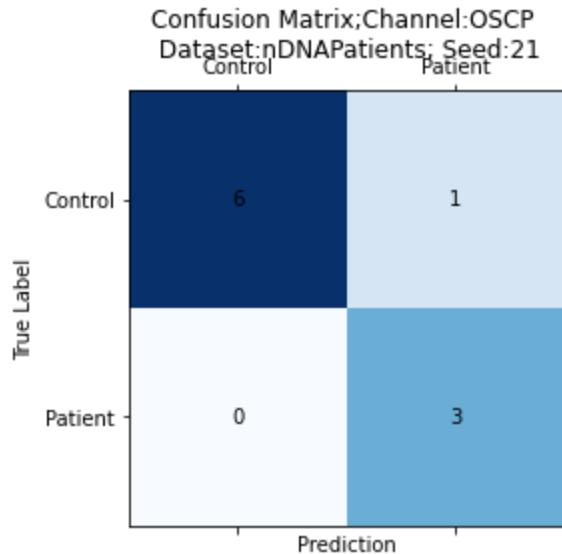
Confusion Matrix;Channel:OSCP
Dataset:nDNAPatients; Seed:34
Control Patient





Test Loss: 0.16033
Test Accuracy: 90.00%

	precision	recall	f1-score	support
controls	1.00	0.86	0.92	7
nDNA_patients	0.75	1.00	0.86	3
accuracy		0.90	0.90	
macro avg	0.88	0.93	0.89	10
weighted avg	0.93	0.90	0.90	10



Test Loss: 0.01761

Test Accuracy: 100.00%

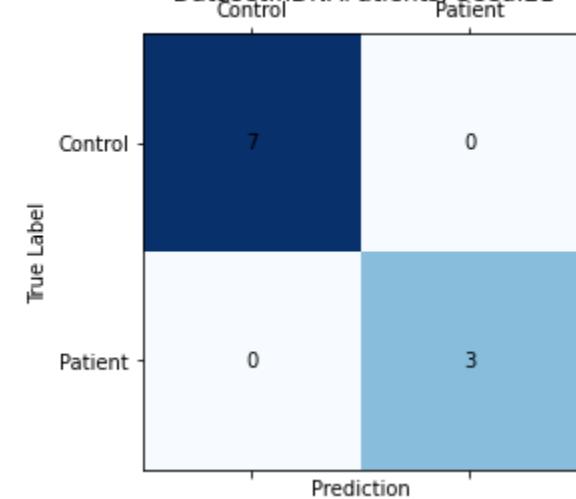
precision recall f1-score support

controls	1.00	1.00	1.00	7
nDNA_patients	1.00	1.00	1.00	3

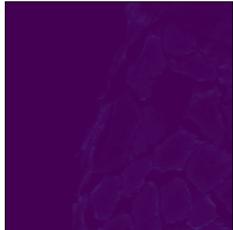
accuracy		1.00	10
macro avg	1.00	1.00	1.00
weighted avg	1.00	1.00	1.00

Confusion Matrix; Channel: SDHA

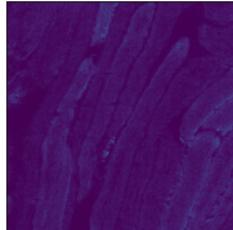
Dataset: nDNAPatients; Seed: 21



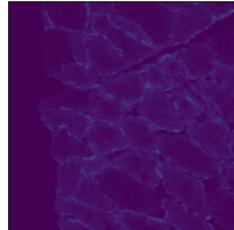
True: nDNA_patients
Predicted: nDNA_patients



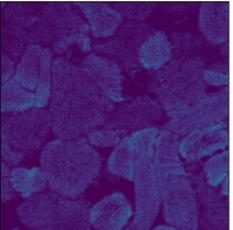
True: controls
Predicted: controls



True: nDNA_patients
Predicted: nDNA_patients



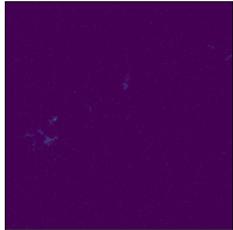
True: controls
Predicted: controls



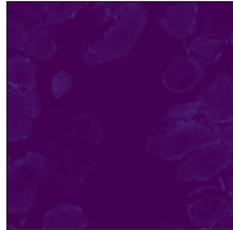
True: controls
Predicted: controls



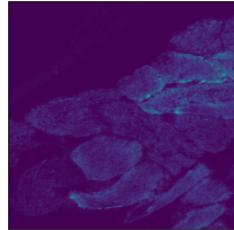
True: controls
Predicted: controls



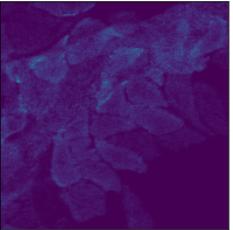
True: nDNA_patients
Predicted: nDNA_patients



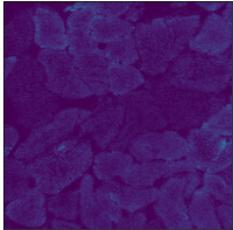
True: controls
Predicted: controls

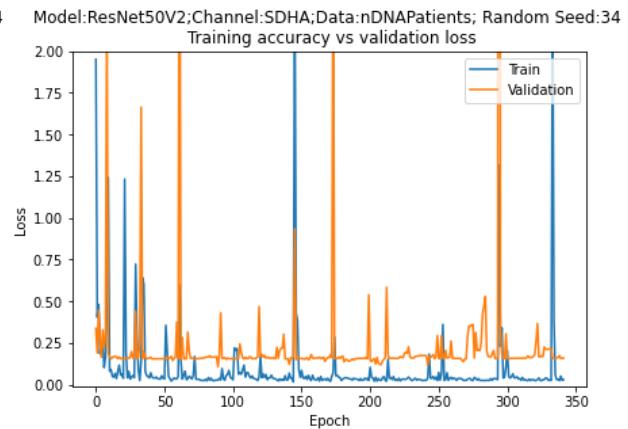
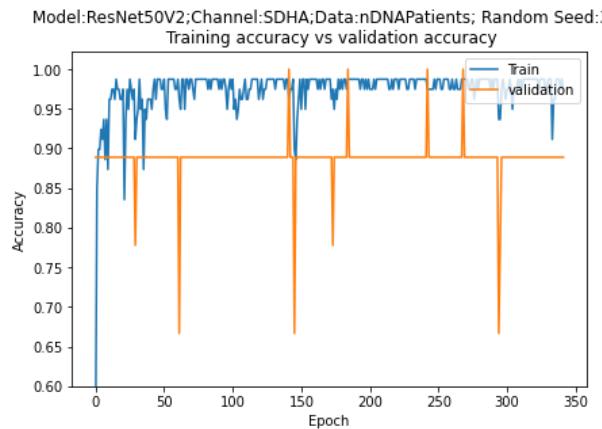


True: controls
Predicted: controls



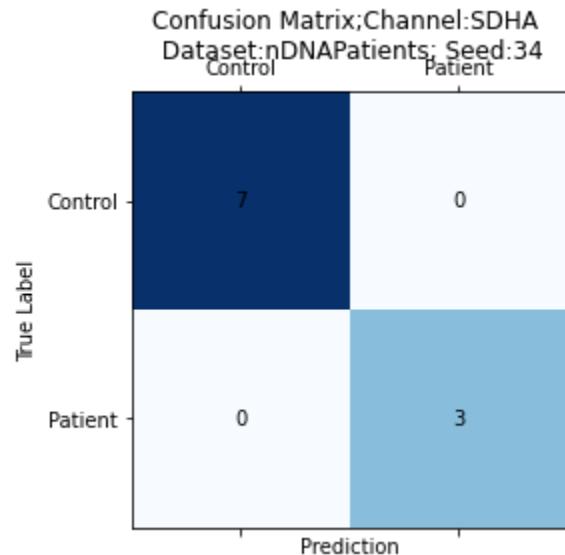
True: controls
Predicted: controls

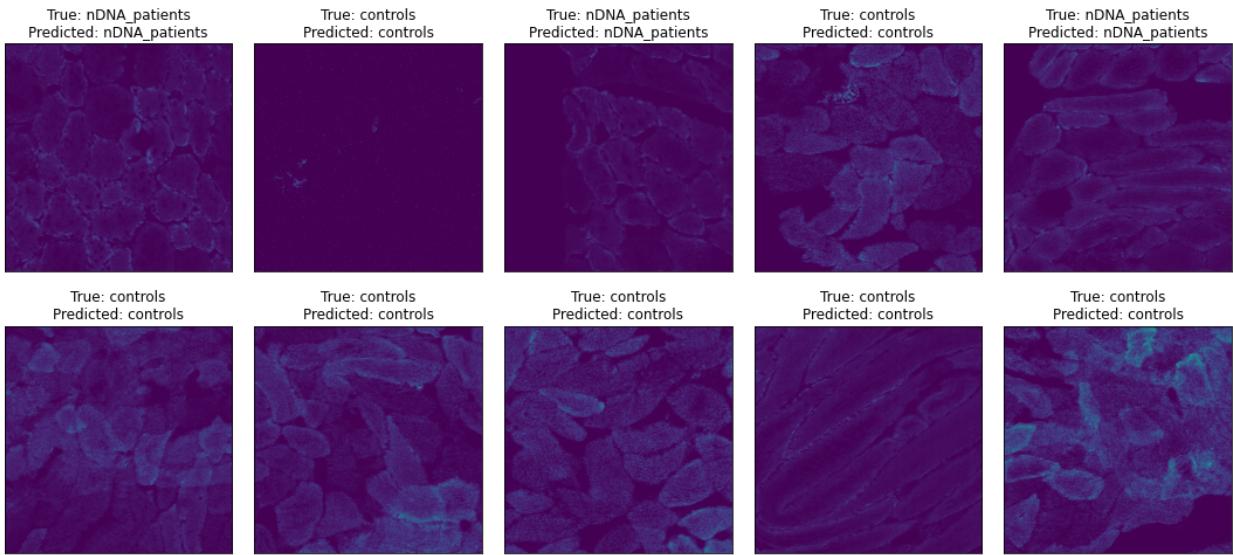




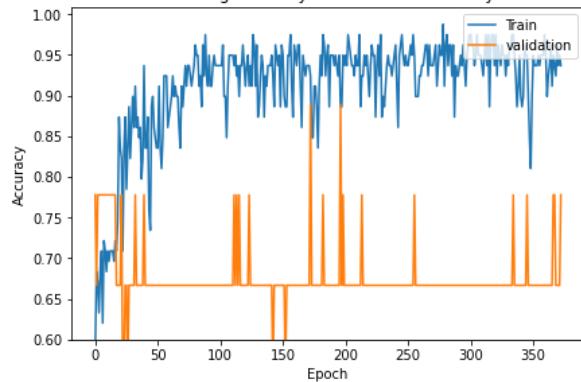
Test Loss: 0.05039
Test Accuracy: 100.00%
precision recall f1-score support

	controls	nDNA_patients		
accuracy	1.00	1.00	1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

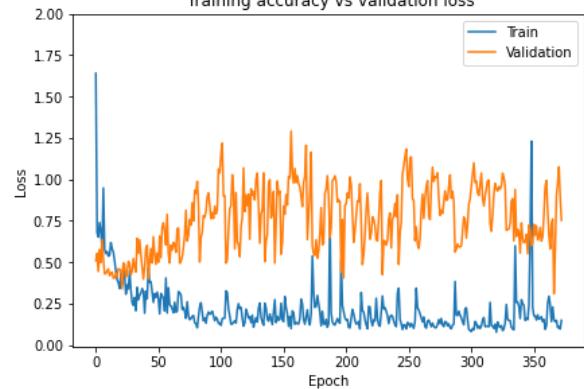




Model:ResNet50V2;Channel:TOM22;Data:nDNAPatients; Random Seed:21
Training accuracy vs validation accuracy



Model:ResNet50V2;Channel:TOM22;Data:nDNAPatients; Random Seed:21
Training accuracy vs validation loss



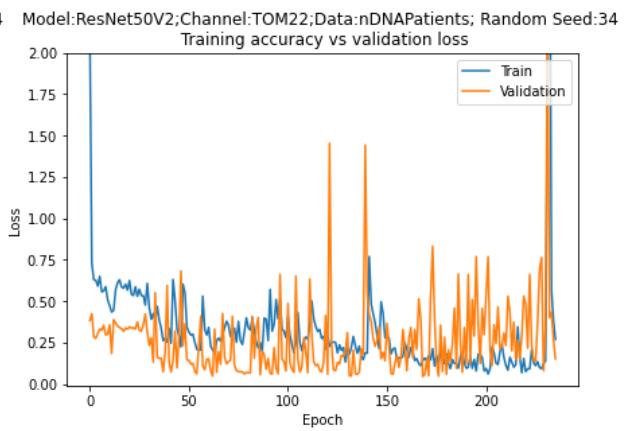
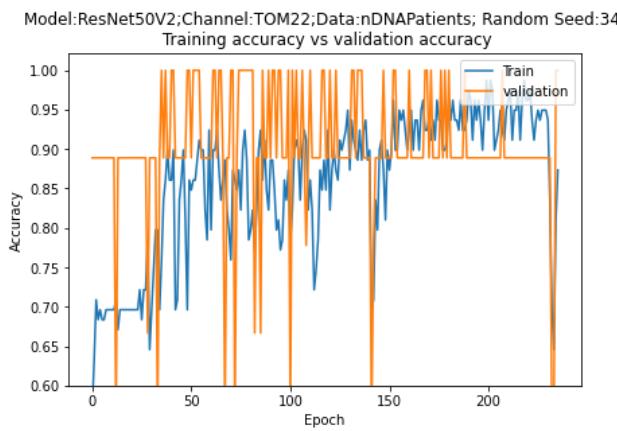
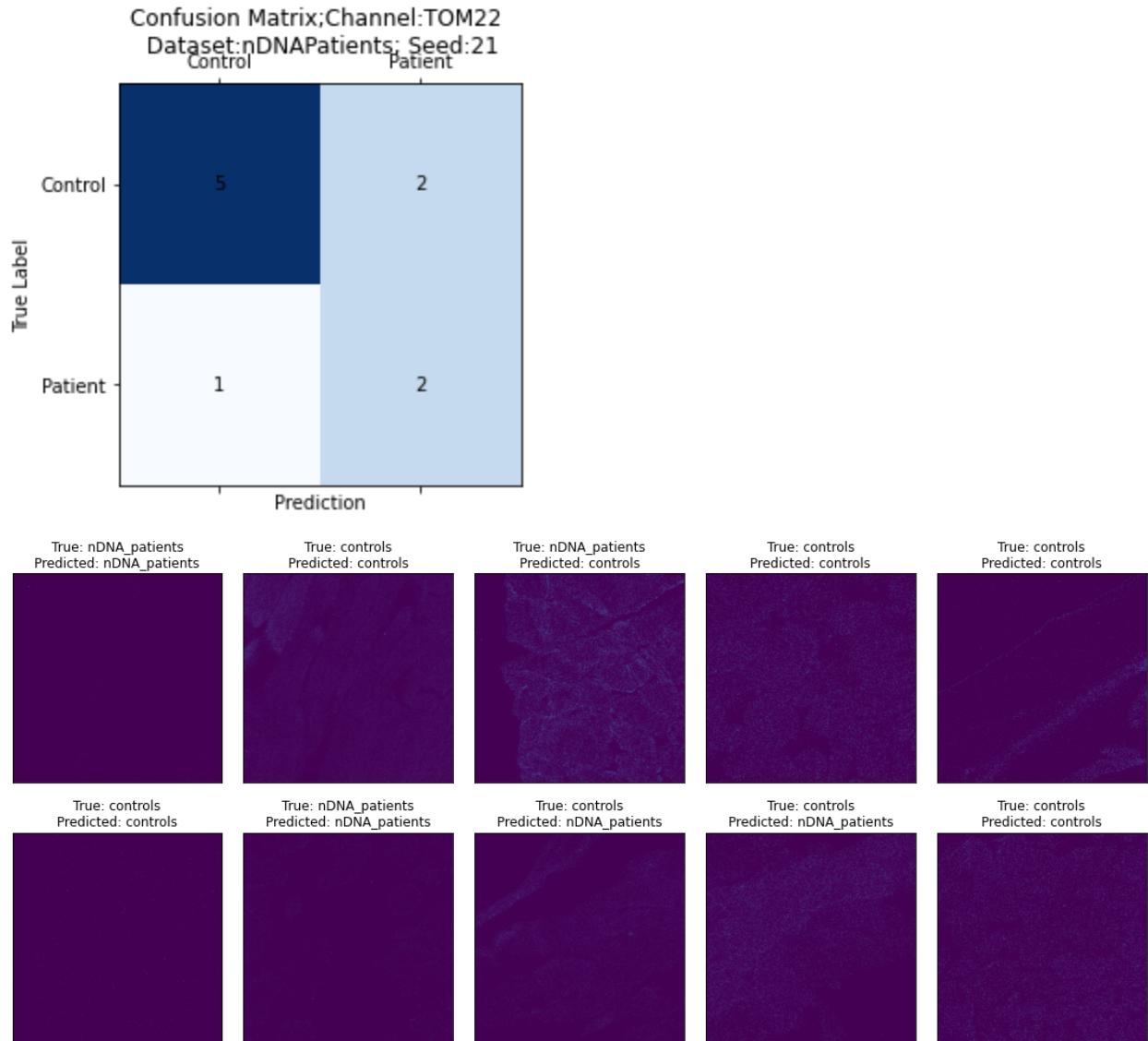
Test Loss: 4.56465

Test Accuracy: 70.00%

precision recall f1-score support

controls	0.83	0.71	0.77	7
nDNA_patients	0.50	0.67	0.57	3

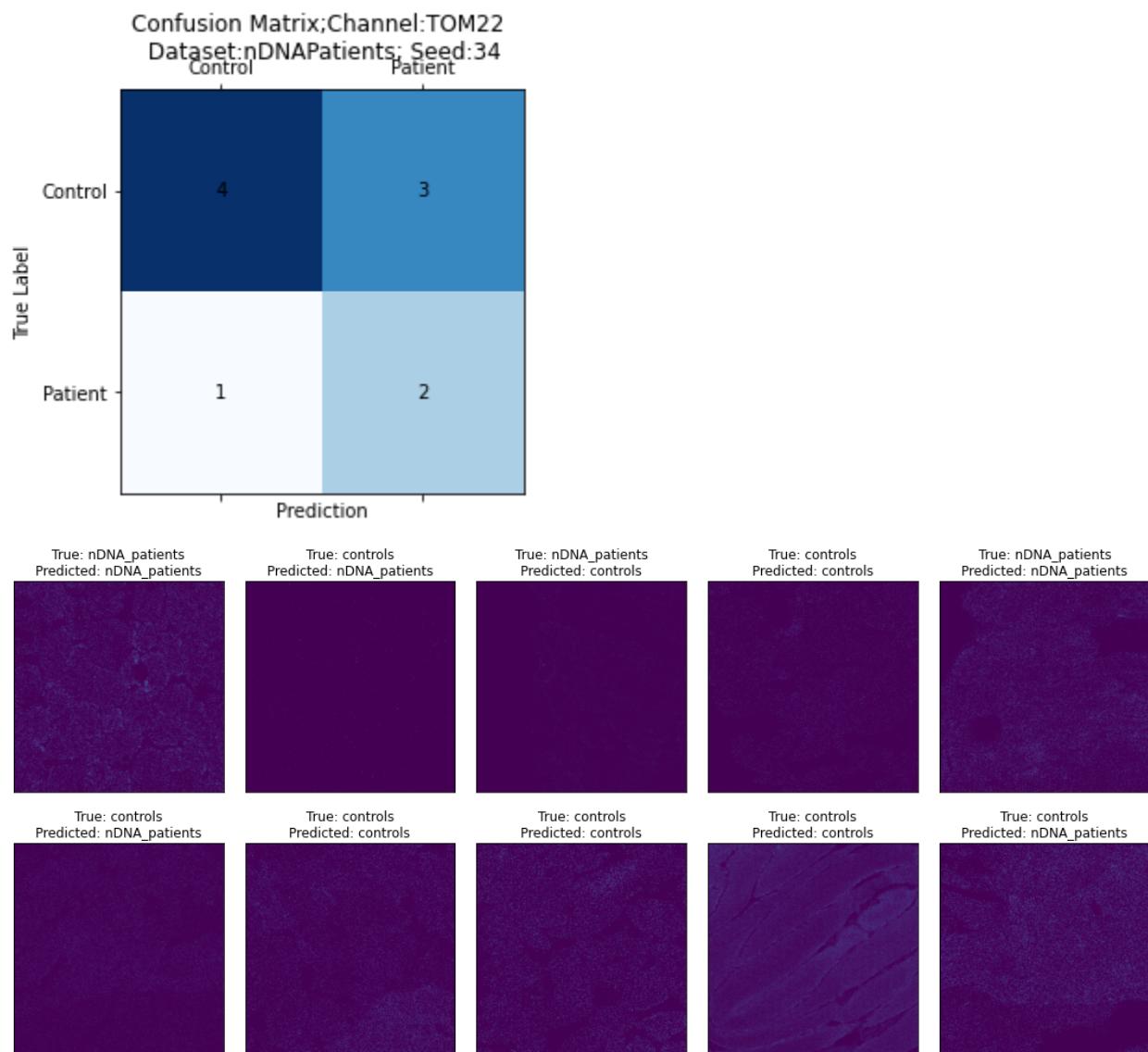
accuracy		0.70	10	
macro avg	0.67	0.69	0.67	10
weighted avg	0.73	0.70	0.71	10

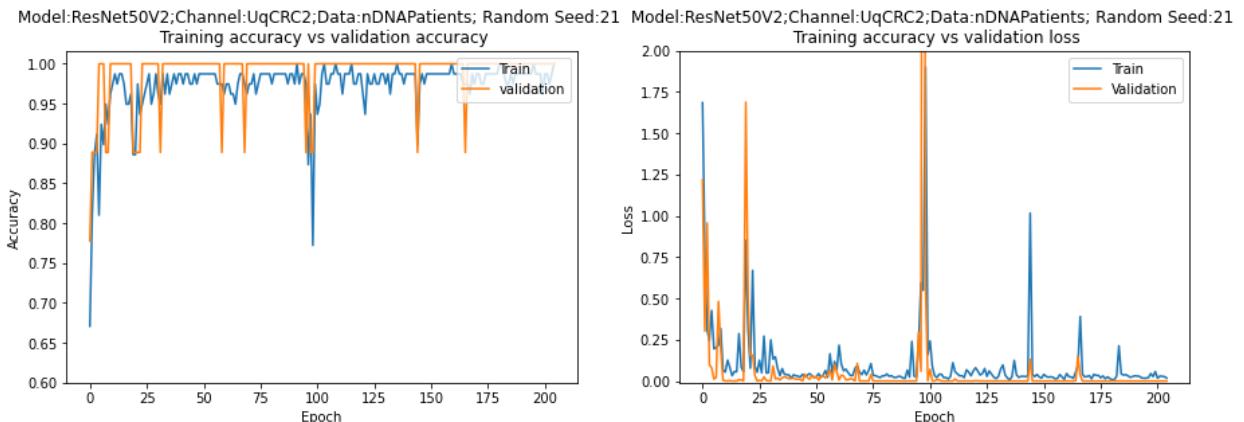


Test Loss: 0.49011

Test Accuracy: 60.00%

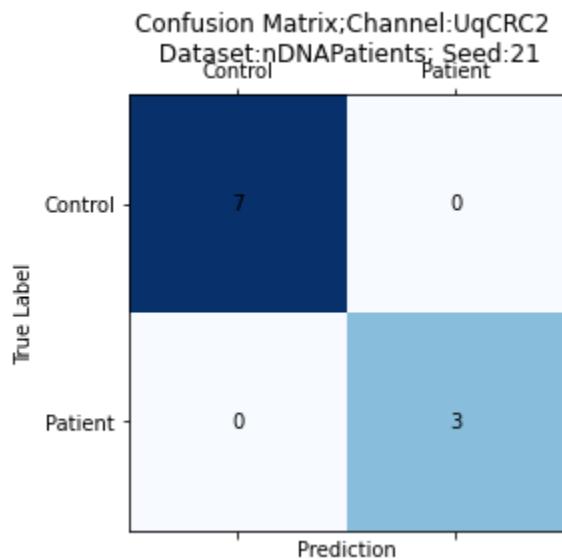
	precision	recall	f1-score	support
controls	0.80	0.57	0.67	7
nDNA_patients	0.40	0.67	0.50	3
accuracy		0.60	10	
macro avg	0.60	0.62	0.58	10
weighted avg	0.68	0.60	0.62	10

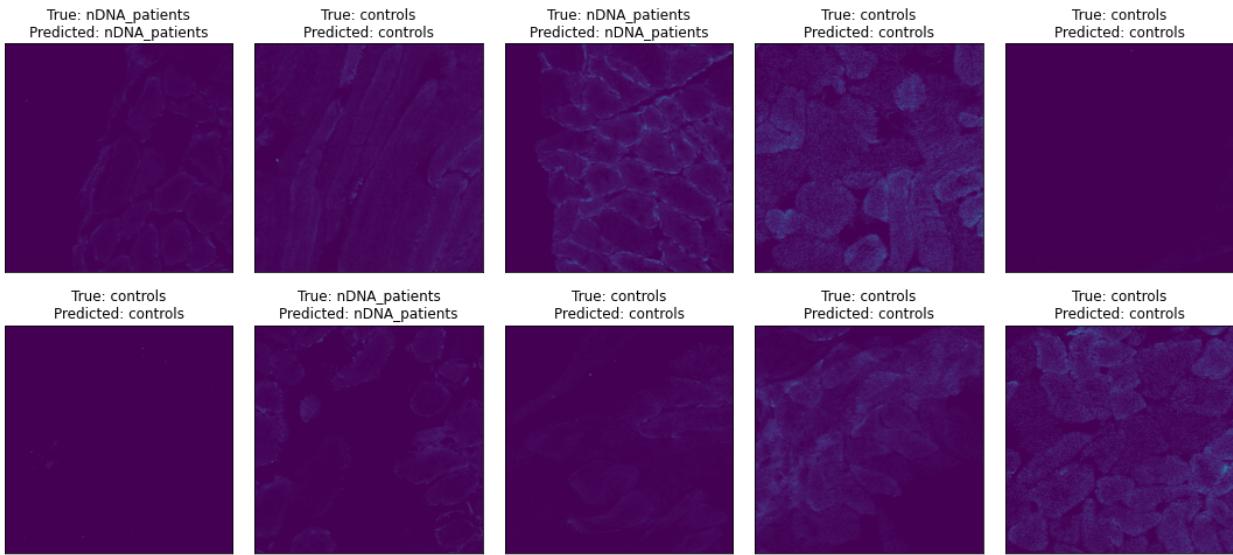




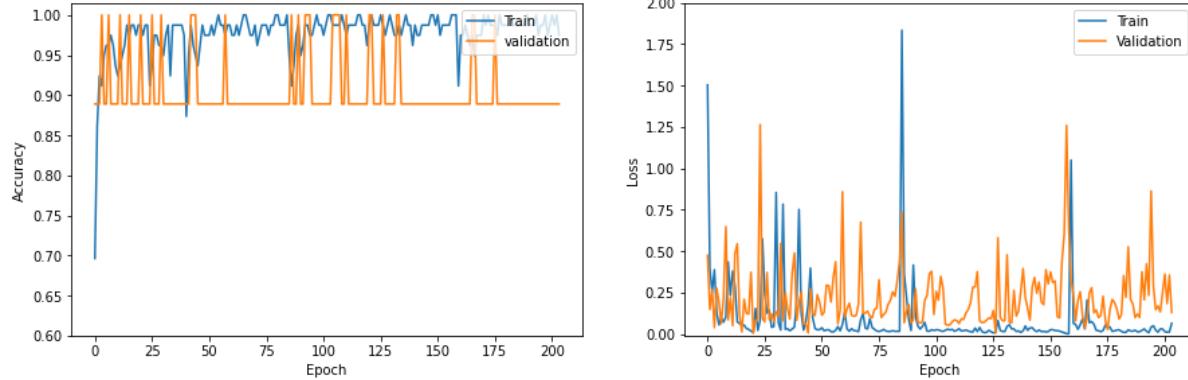
Test Loss: 0.11082
Test Accuracy: 100.00%

	precision	recall	f1-score	support
controls	1.00	1.00	1.00	7
nDNA_patients	1.00	1.00	1.00	3
accuracy		1.00	1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10





Model:ResNet50V2;Channel:UqCRC2;Data:nDNAPatients; Random Seed:34 Model:ResNet50V2;Channel:UqCRC2;Data:nDNAPatients; Random Seed:34
Training accuracy vs validation accuracy Training accuracy vs validation loss



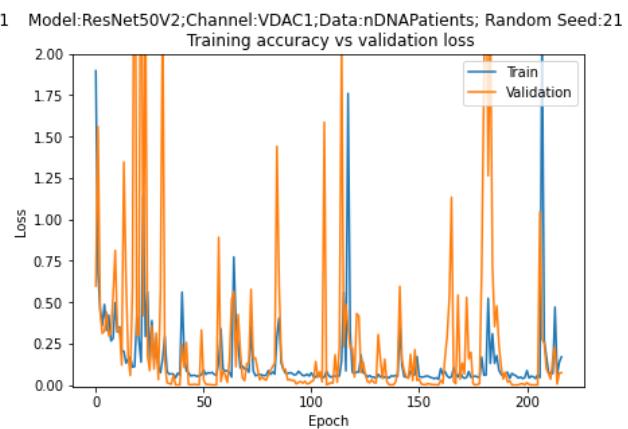
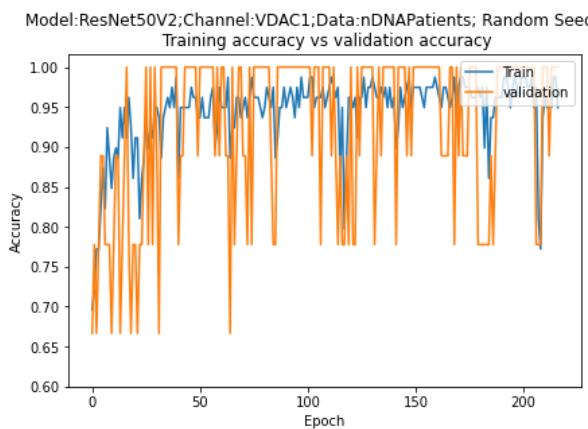
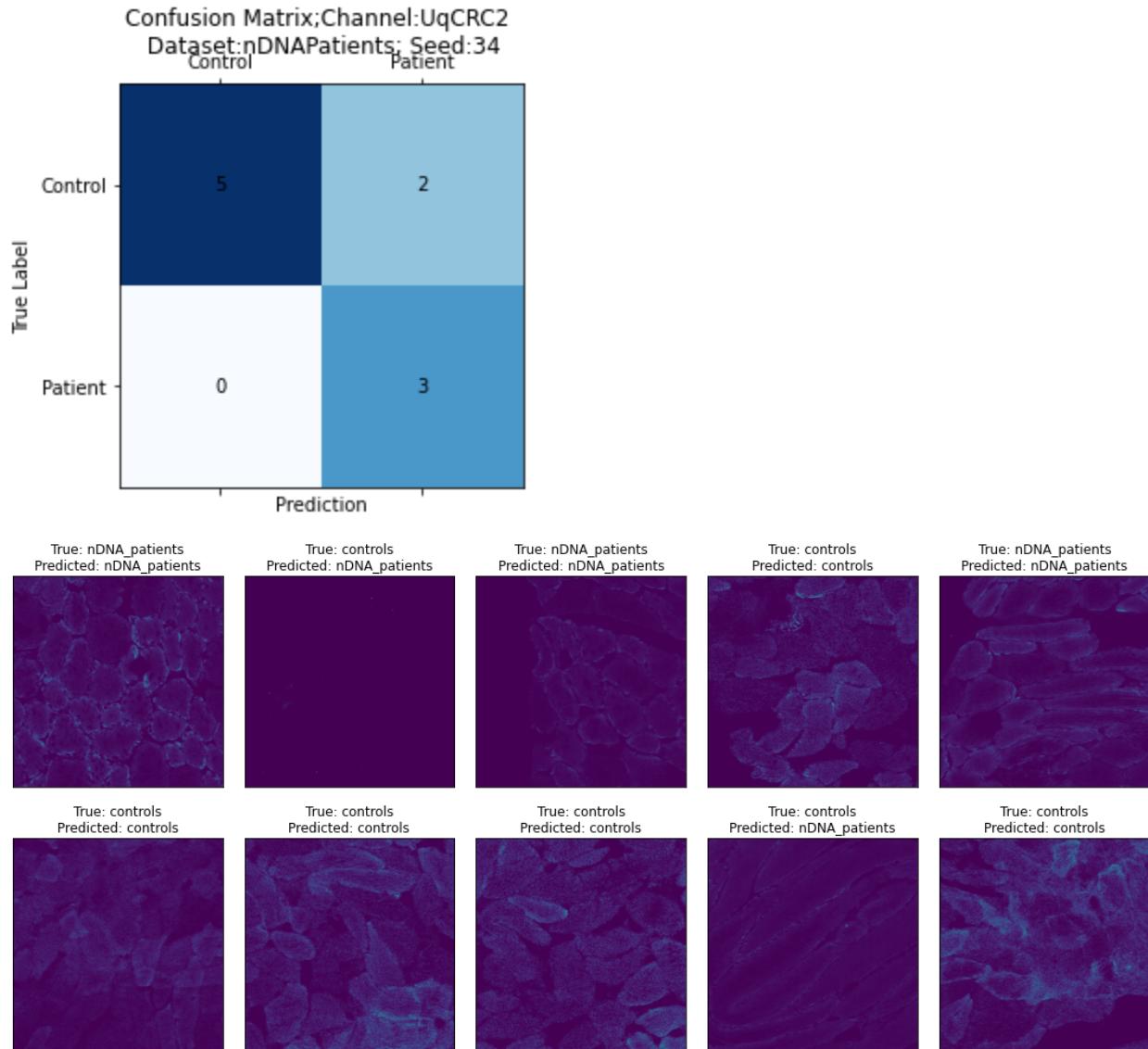
Test Loss: 0.37833

Test Accuracy: 80.00%

precision recall f1-score support

controls	1.00	0.71	0.83	7
nDNA_patients	0.60	1.00	0.75	3

accuracy		0.80	10	
macro avg	0.80	0.86	0.79	10
weighted avg	0.88	0.80	0.81	10



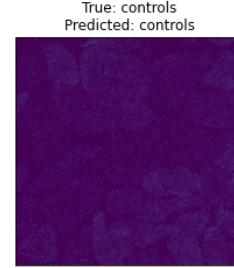
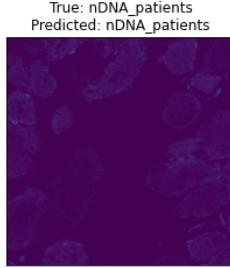
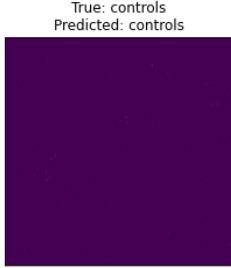
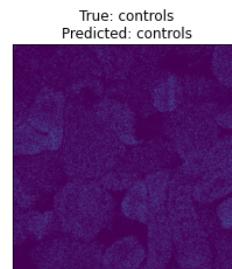
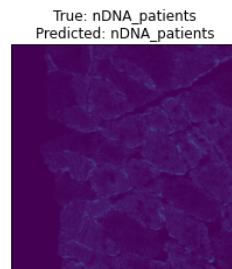
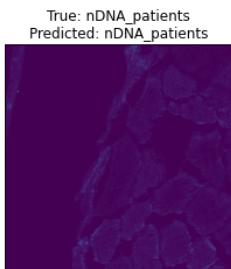
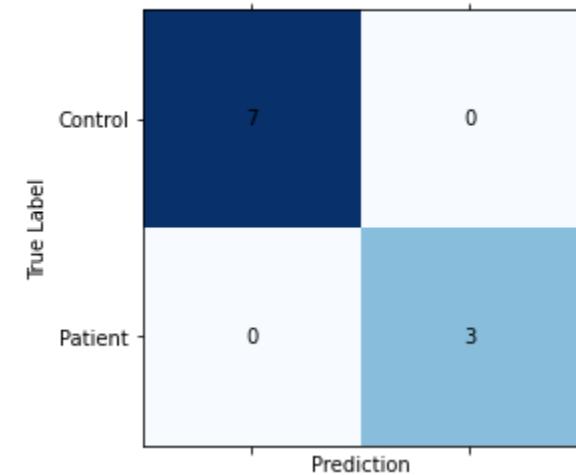
Test Loss: 0.10995
Test Accuracy: 100.00%

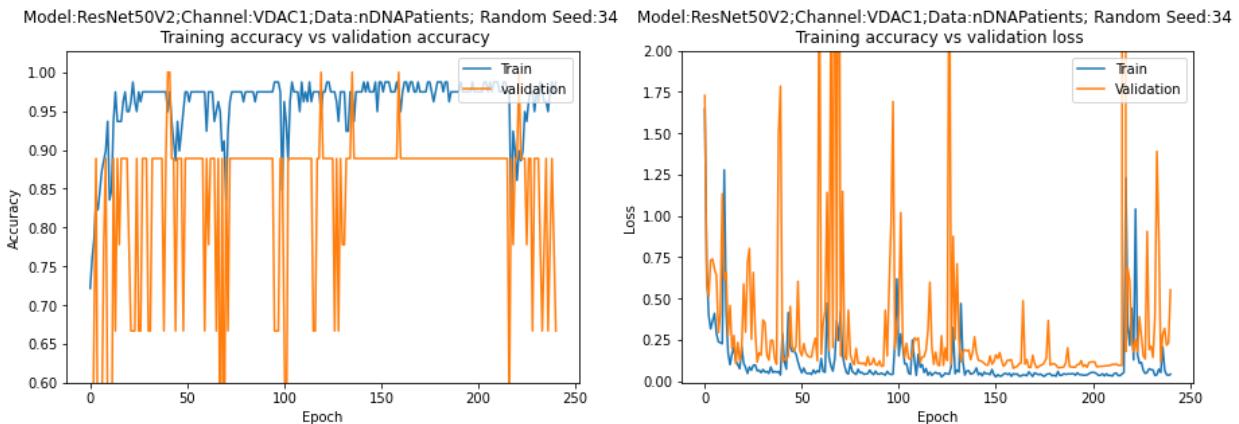
precision recall f1-score support

controls	1.00	1.00	1.00	7
nDNA_patients	1.00	1.00	1.00	3

accuracy		1.00	10
macro avg	1.00	1.00	1.00
weighted avg	1.00	1.00	1.00

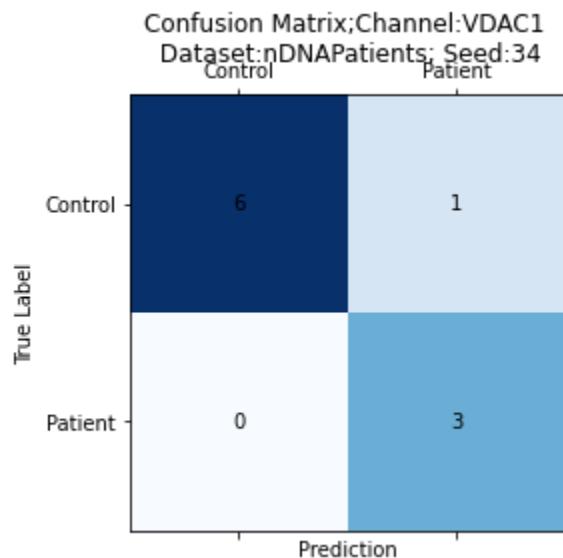
Confusion Matrix; Channel: VDAC1
Dataset: nDNAPatients; Seed: 21

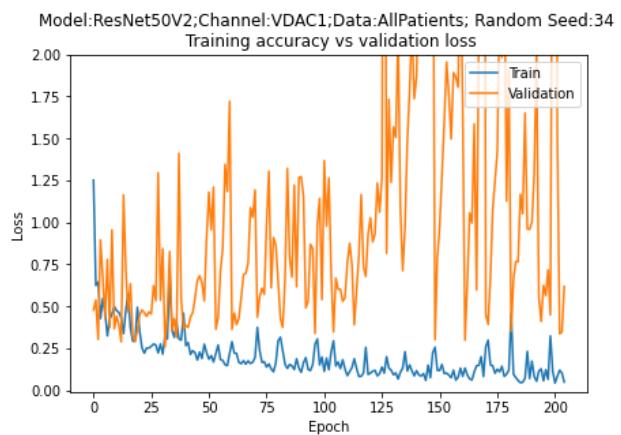
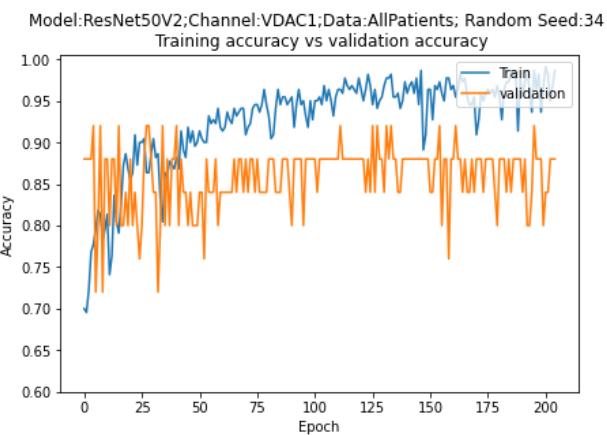
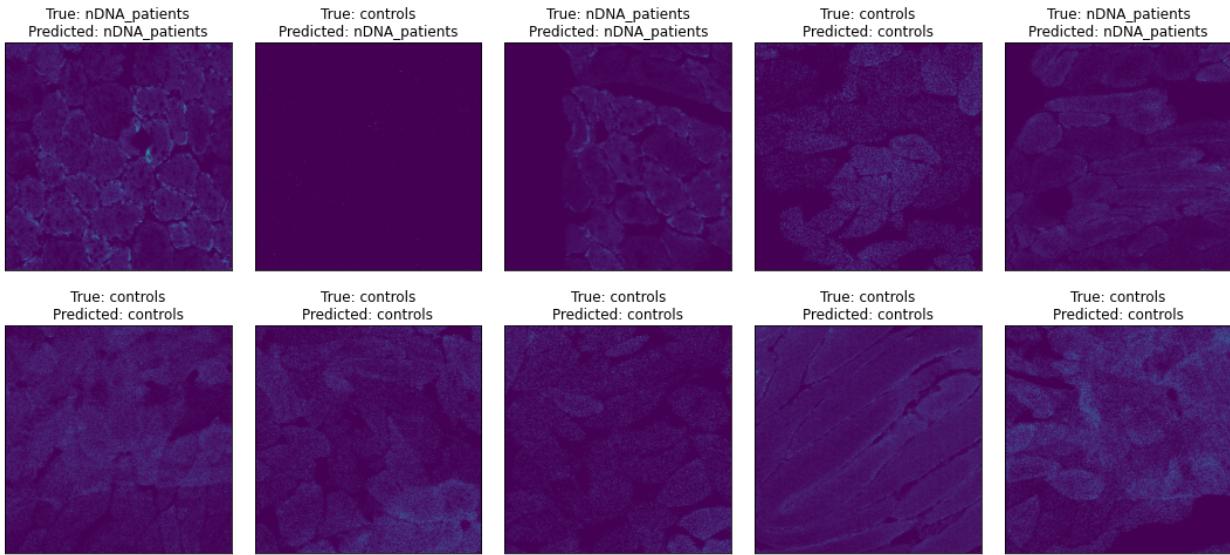




Test Loss: 0.15558
Test Accuracy: 90.00%

	precision	recall	f1-score	support
controls	1.00	0.86	0.92	7
nDNA_patients	0.75	1.00	0.86	3
accuracy		0.90	10	
macro avg	0.88	0.93	0.89	10
weighted avg	0.93	0.90	0.90	10





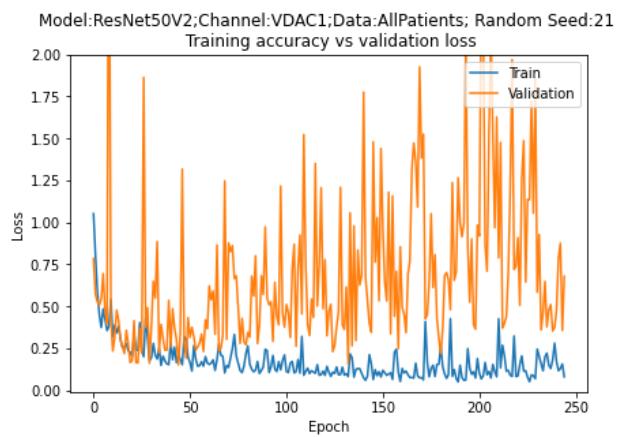
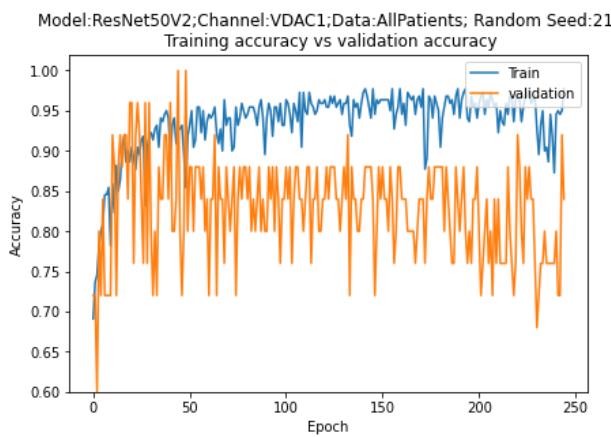
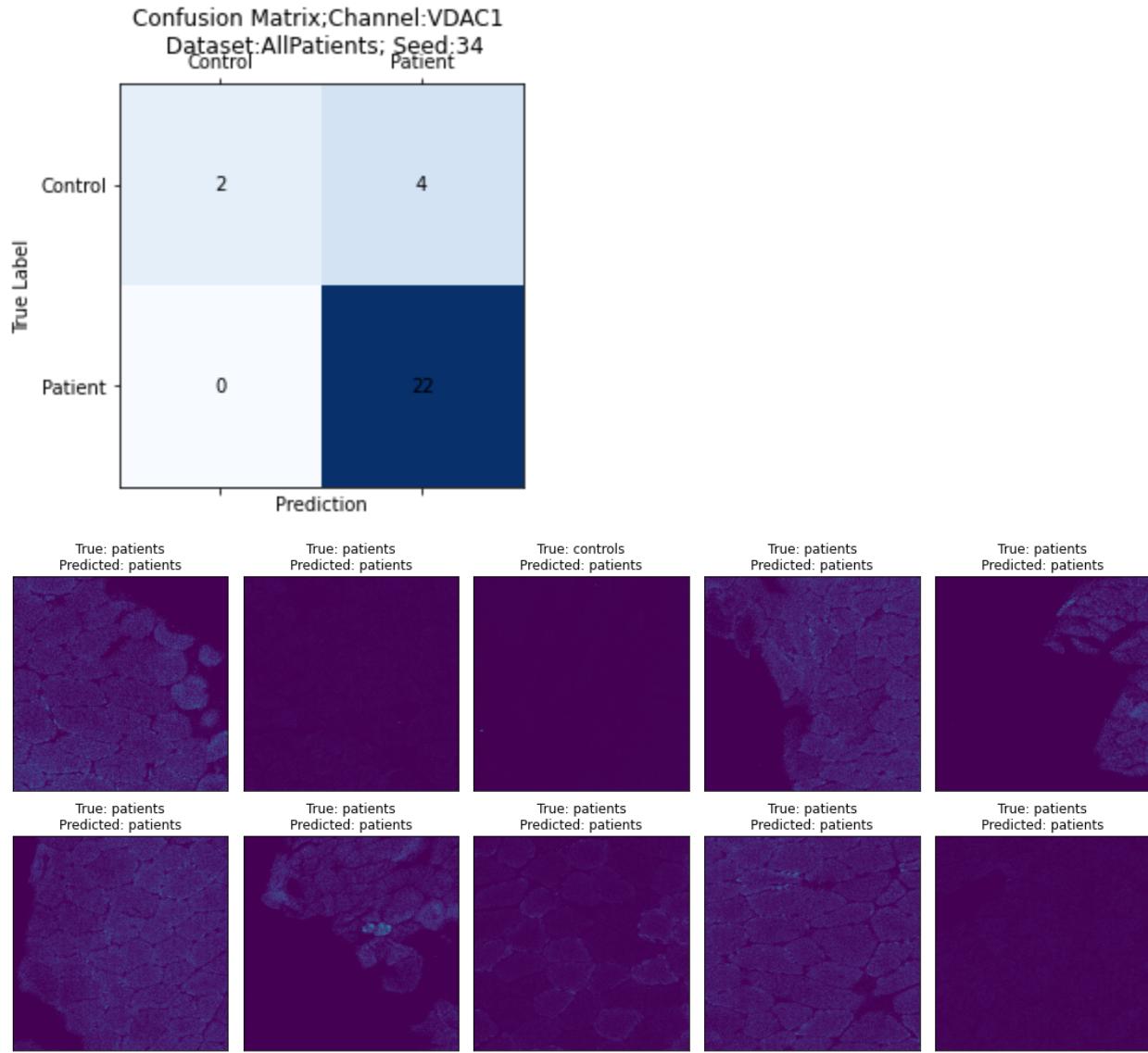
Test Loss: 0.78349

Test Accuracy: 85.71%

precision recall f1-score support

	controls	patients		
precision	1.00	0.85	0.86	0.88
recall	0.33	1.00	0.67	0.86
f1-score	0.50	0.92	0.71	0.83
support	6	22	28	28

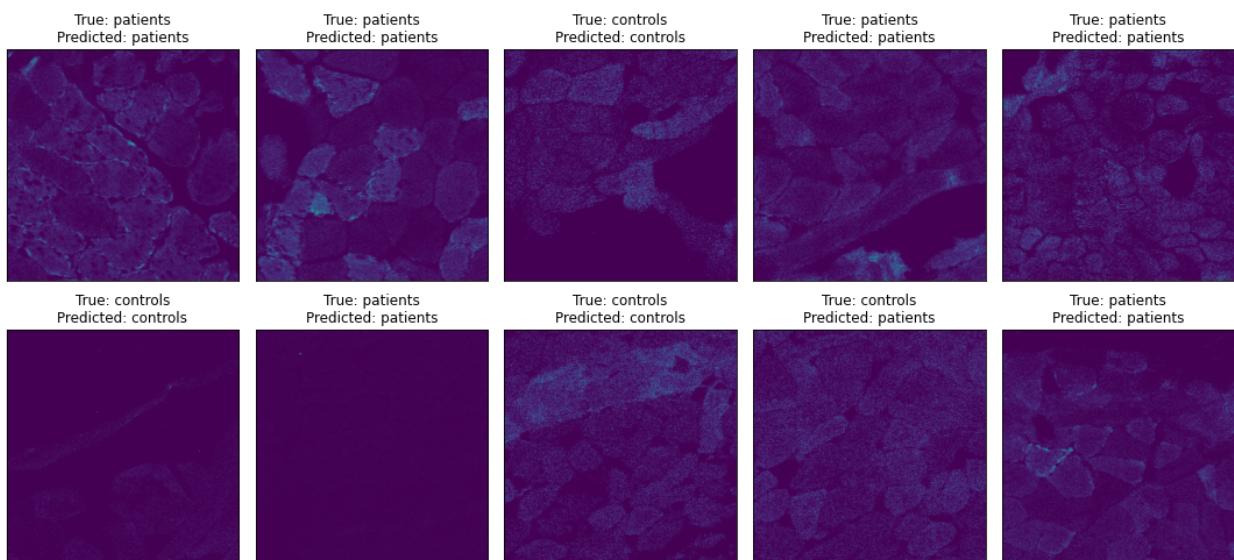
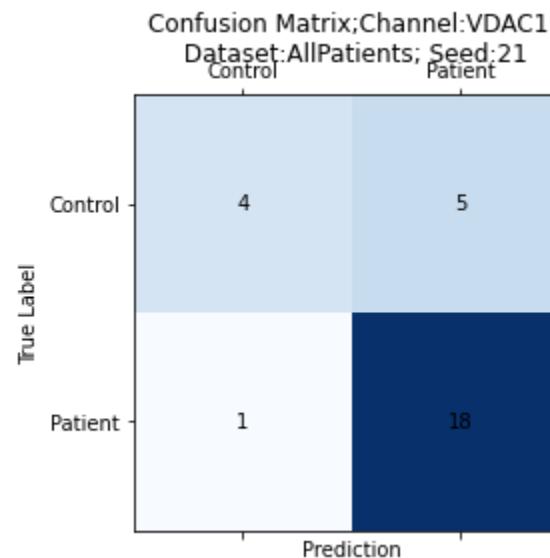
	accuracy	macro avg	weighted avg	
precision	1.00	0.92	0.88	0.86
recall	0.33	0.67	0.86	0.83
f1-score	0.50	0.71	0.83	0.83
support	6	28	28	28

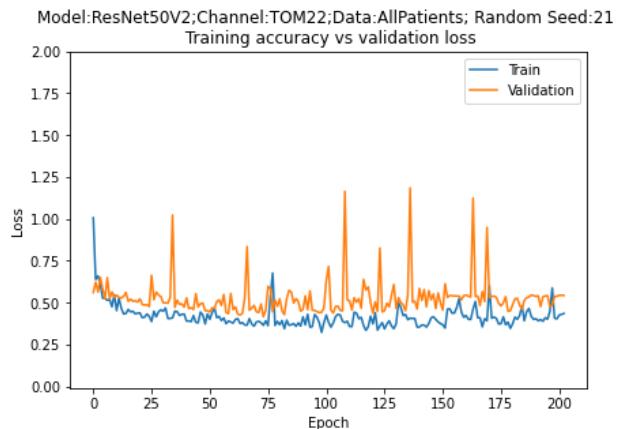
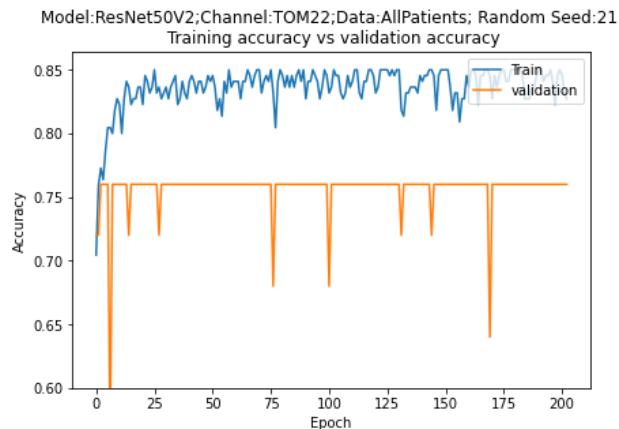


Test Loss: 0.46513
Test Accuracy: 78.57%

precision recall f1-score support

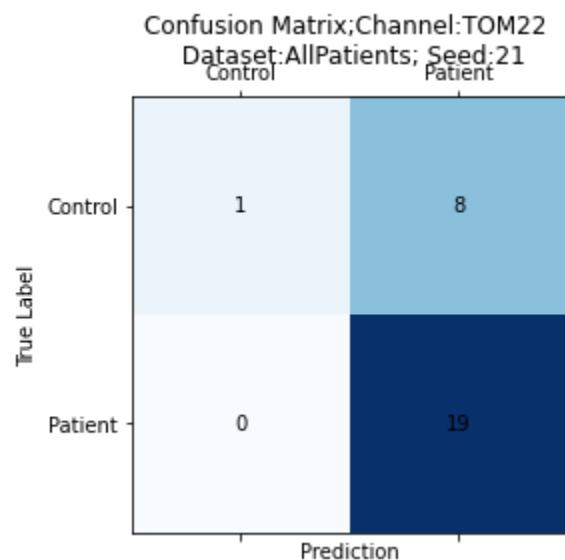
	precision	recall	f1-score	support
controls	0.80	0.44	0.57	9
patients	0.78	0.95	0.86	19
accuracy			0.79	28
macro avg	0.79	0.70	0.71	28
weighted avg	0.79	0.79	0.77	28

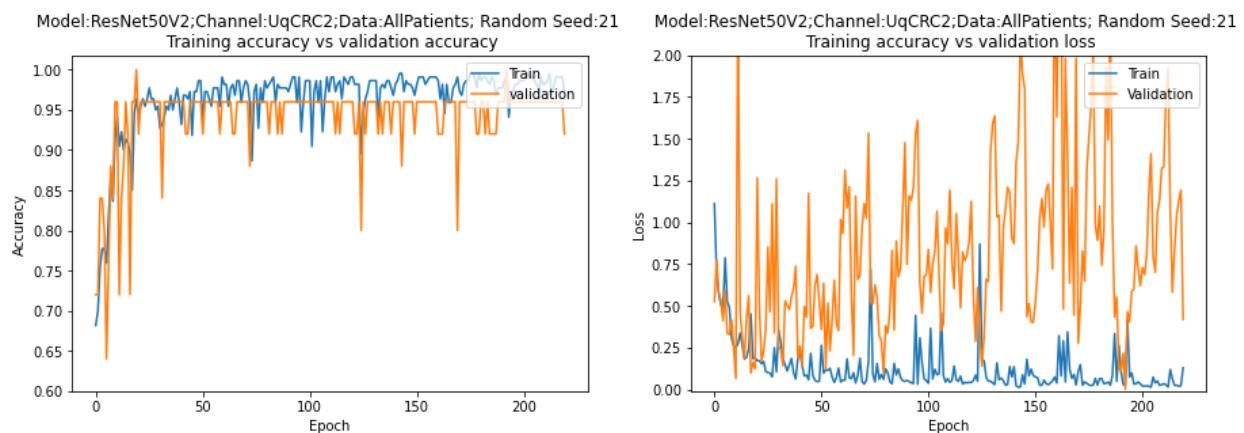
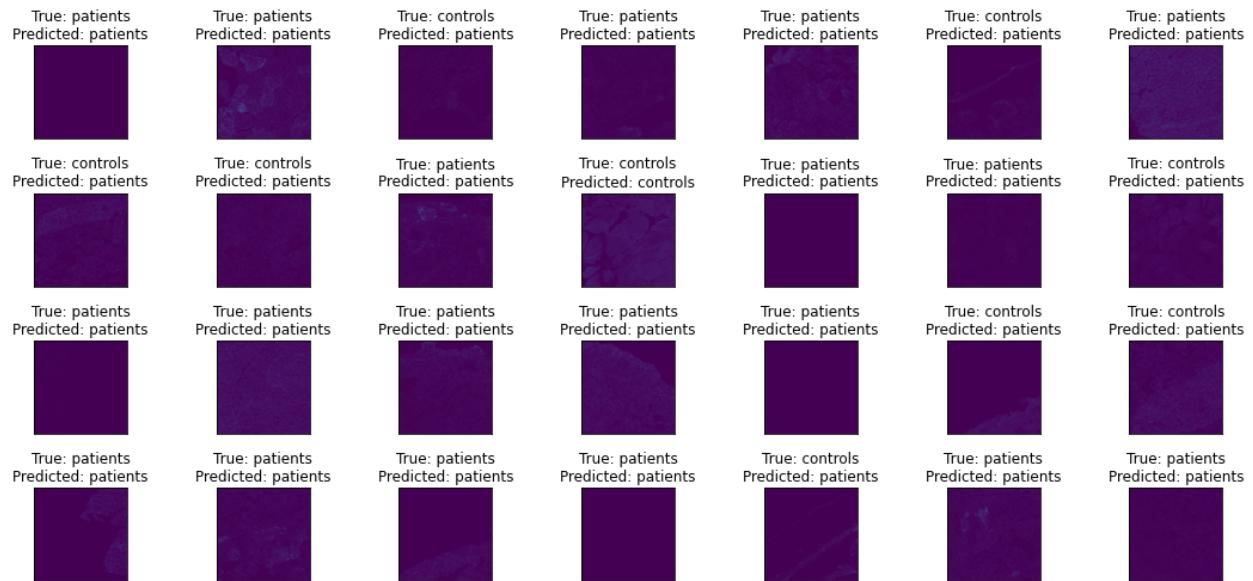




Test Loss: 0.52340
Test Accuracy: 71.43%
precision recall f1-score support

	controls	patients	accuracy	macro avg	weighted avg
precision	1.00	0.70	0.71	0.85	0.80
recall	0.11	1.00	0.83	0.56	0.71
f1-score	0.20	0.83	0.51	0.51	0.62
support	9	19	28	28	28



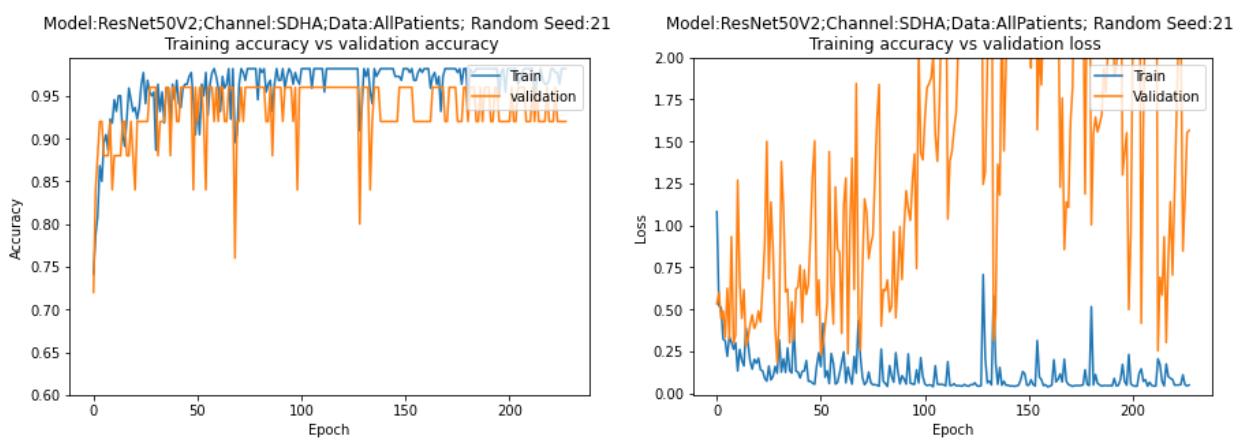
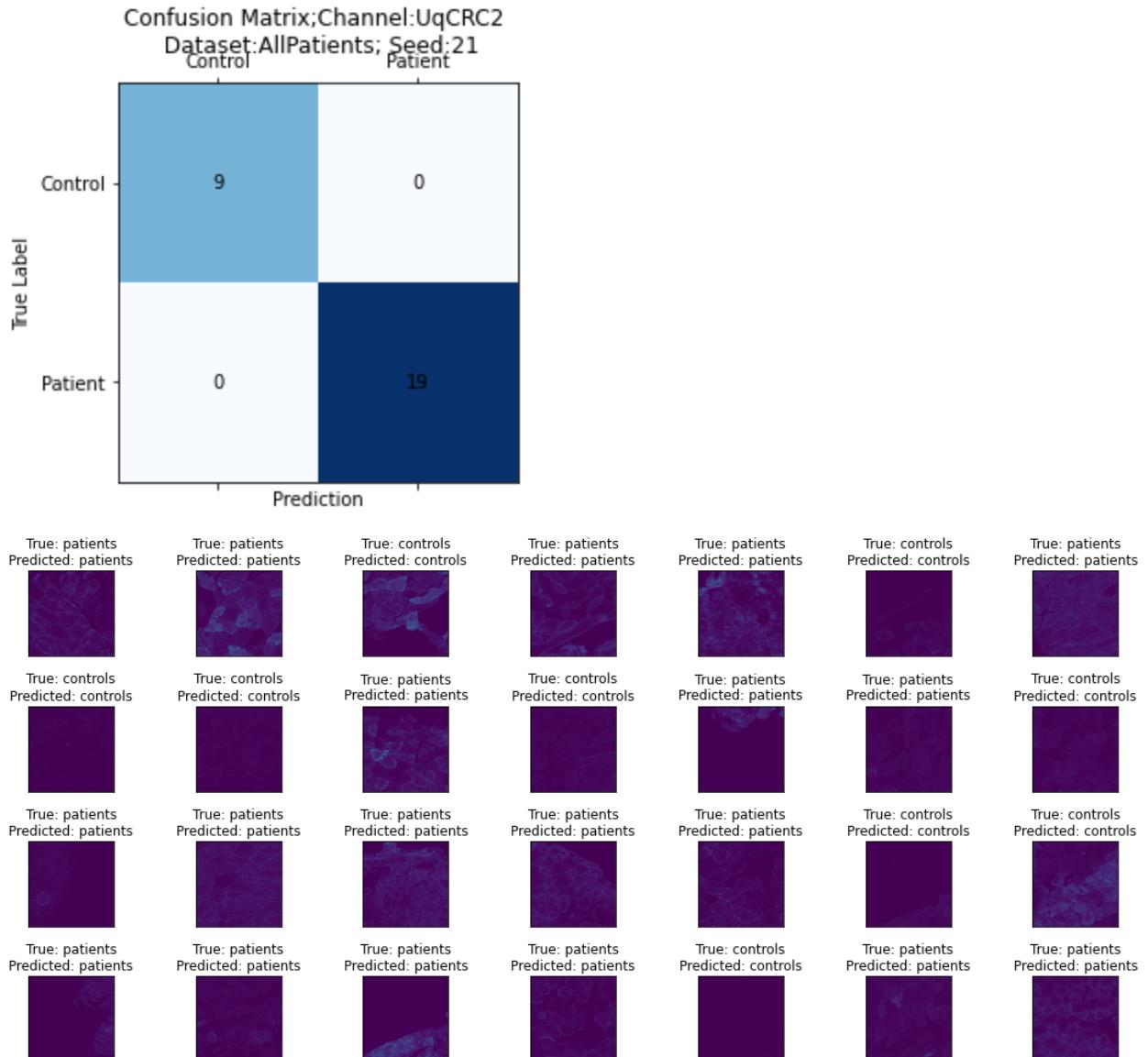


Test Loss: 0.17594

Test Accuracy: 100.00%

precision recall f1-score support

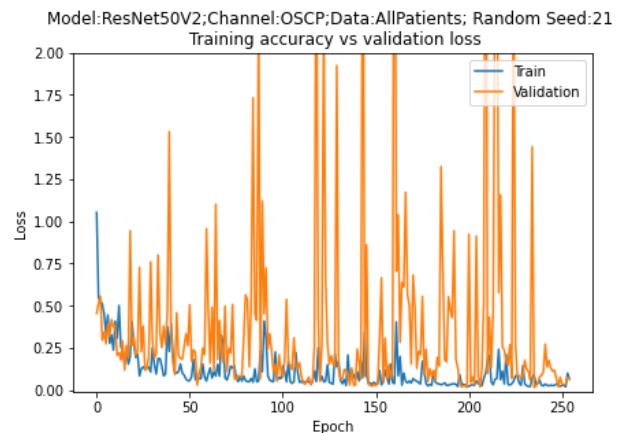
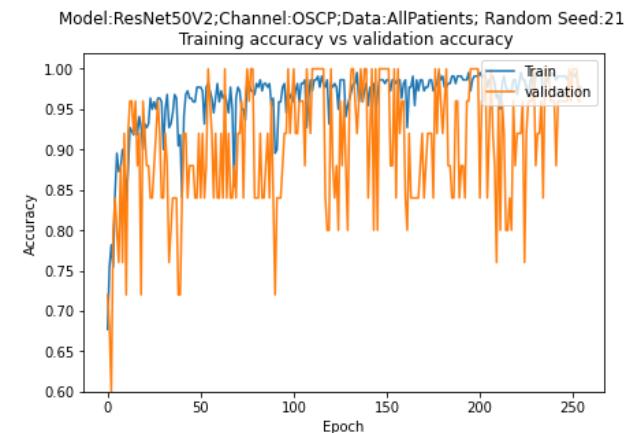
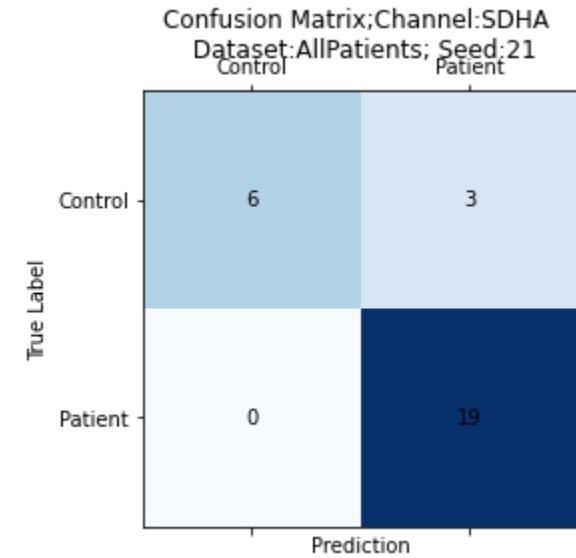
controls	1.00	1.00	1.00	9
patients	1.00	1.00	1.00	19
accuracy		1.00	1.00	28
macro avg	1.00	1.00	1.00	28
weighted avg	1.00	1.00	1.00	28



Test Loss: 0.39684

Test Accuracy: 89.29%

	precision	recall	f1-score	support
controls	1.00	0.67	0.80	9
patients	0.86	1.00	0.93	19
accuracy		0.89	0.89	28
macro avg	0.93	0.83	0.86	28
weighted avg	0.91	0.89	0.89	28

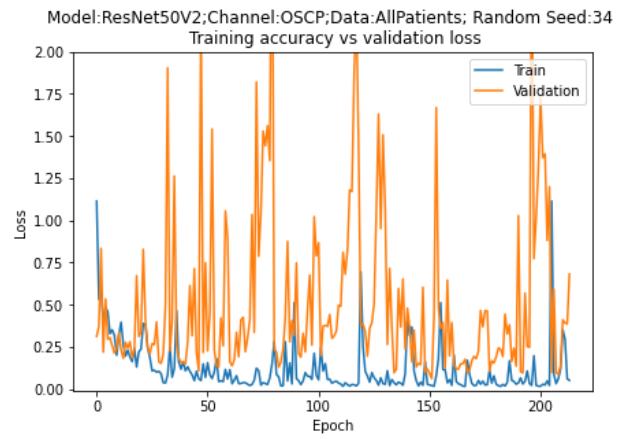
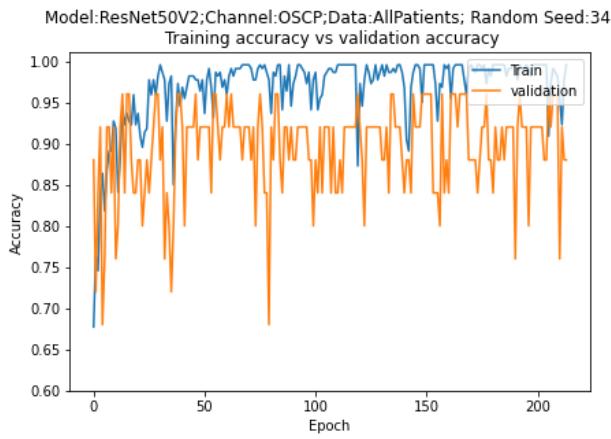
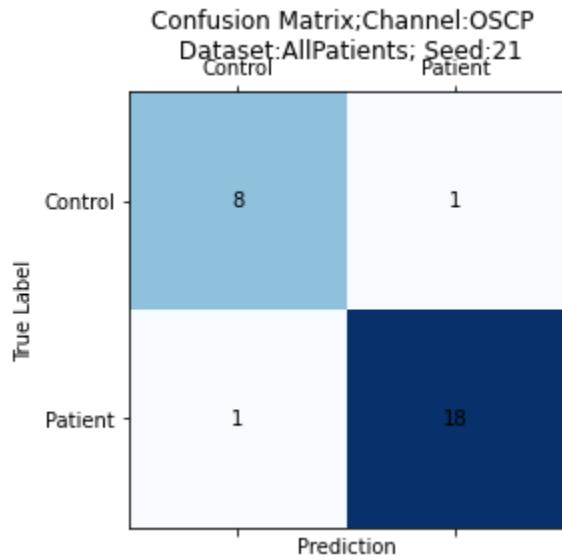


Test Loss: 0.62348

Test Accuracy: 92.86%

	precision	recall	f1-score	support
controls	0.89	0.89	0.89	9
patients	0.95	0.95	0.95	19
accuracy		0.93	0.93	28
macro avg	0.92	0.92	0.92	28

weighted avg **0.93** **0.93** **0.93** **28**



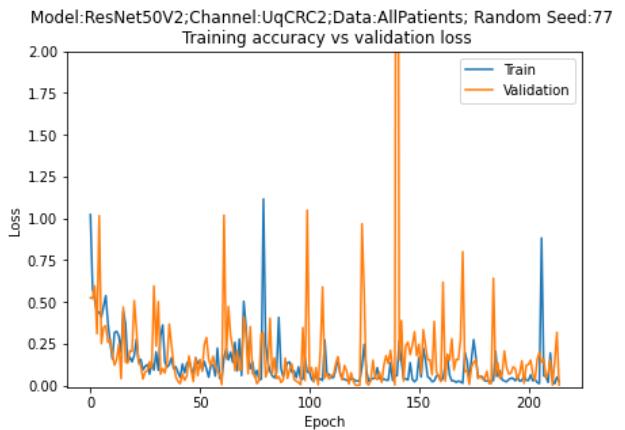
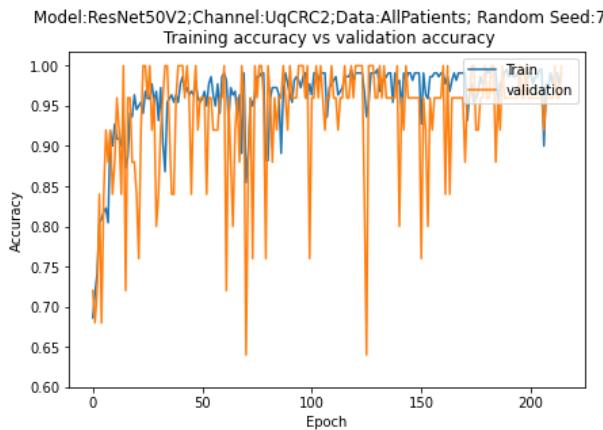
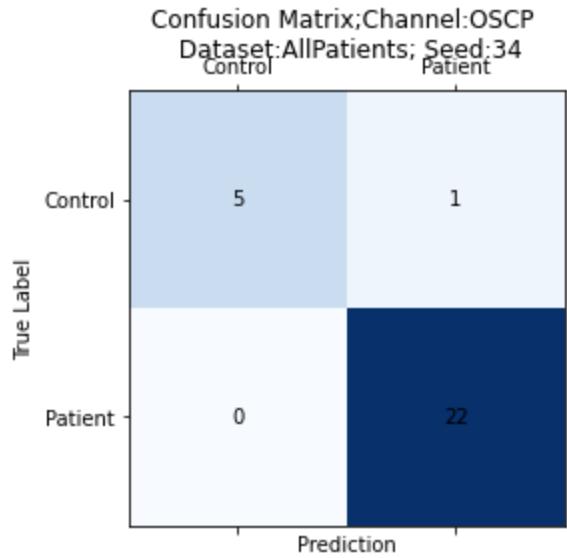
Test Loss: 0.25147

Test Accuracy: 96.43%

precision recall f1-score support

controls	1.00	0.83	0.91	6
patients	0.96	1.00	0.98	22

	accuracy	0.96	28	
macro avg	0.98	0.92	0.94	28
weighted avg	0.97	0.96	0.96	28

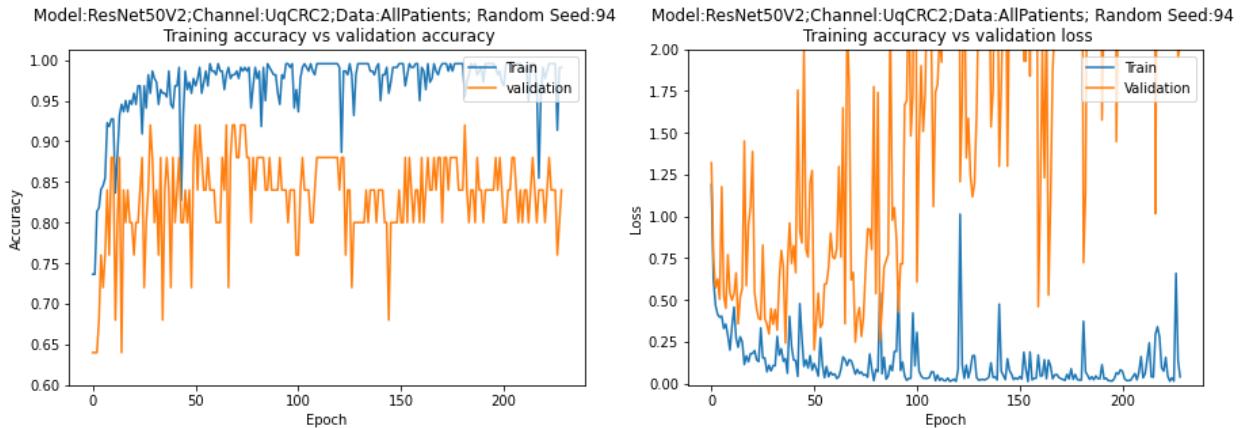
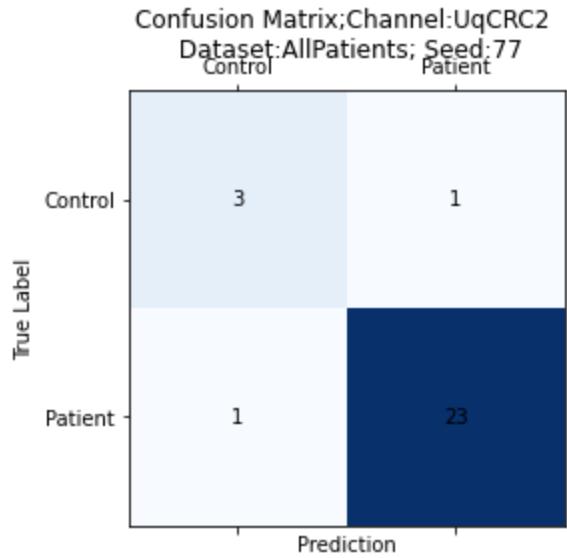


Test Loss: 0.31364

Test Accuracy: 92.86%

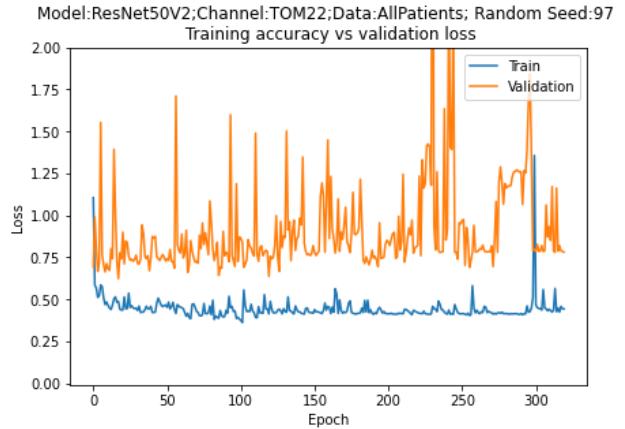
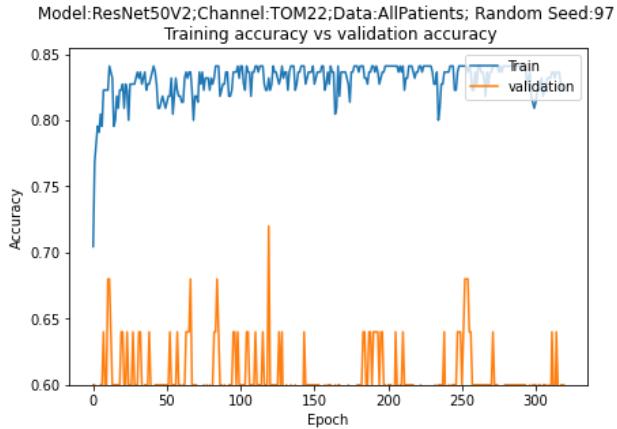
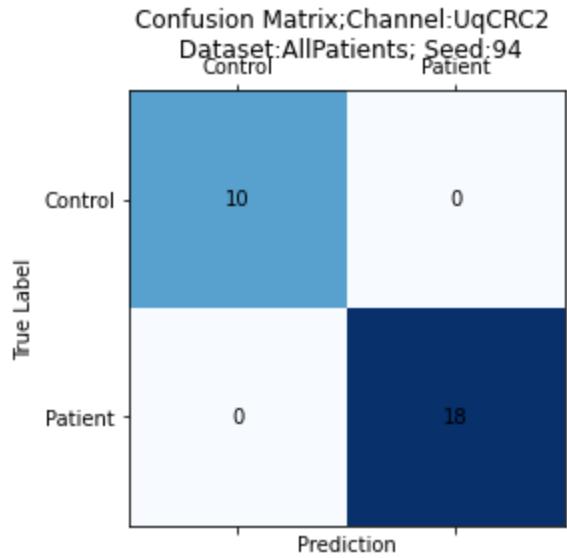
precision recall f1-score support

controls	0.75	0.75	0.75	4
patients	0.96	0.96	0.96	24
accuracy		0.93	0.93	28
macro avg	0.85	0.85	0.85	28
weighted avg	0.93	0.93	0.93	28



Test Loss: 0.15825
Test Accuracy: 100.00%

	precision	recall	f1-score	support
controls	1.00	1.00	1.00	10
patients	1.00	1.00	1.00	18
accuracy			1.00	28
macro avg	1.00	1.00	1.00	28
weighted avg	1.00	1.00	1.00	28



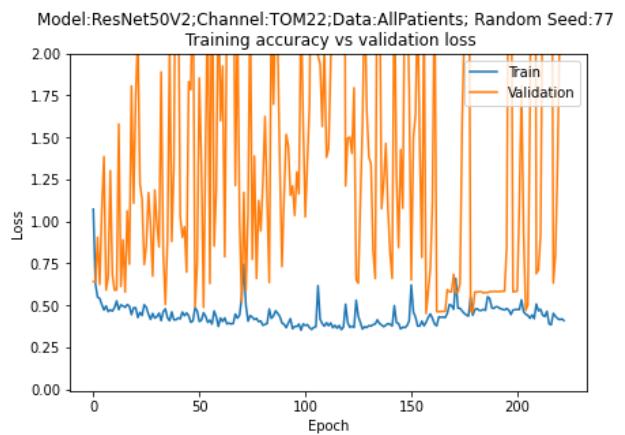
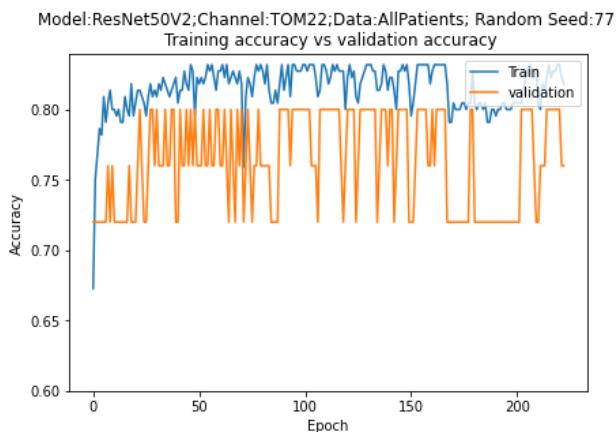
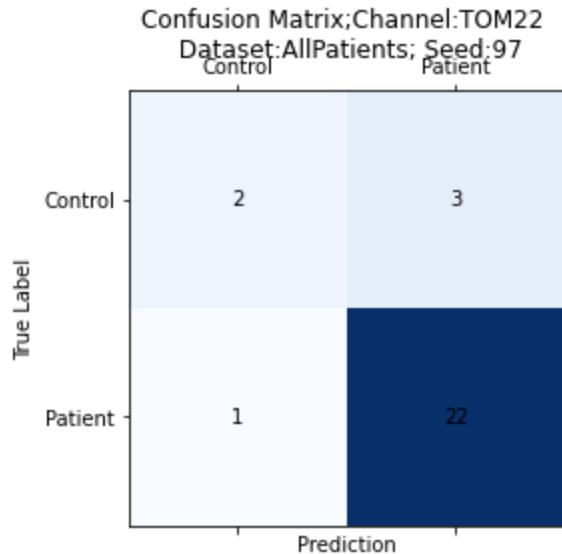
Test Loss: 0.38069

Test Accuracy: 85.71%

precision recall f1-score support

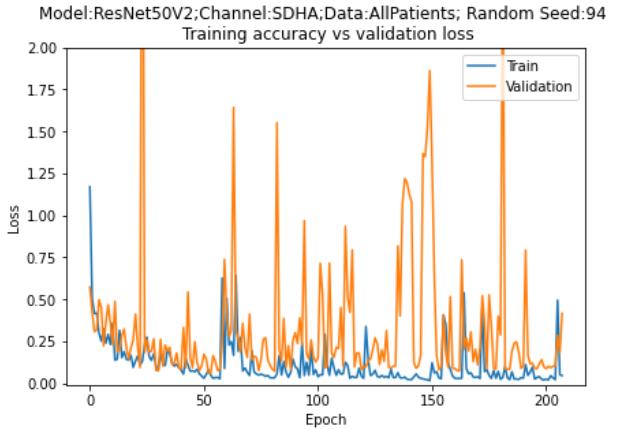
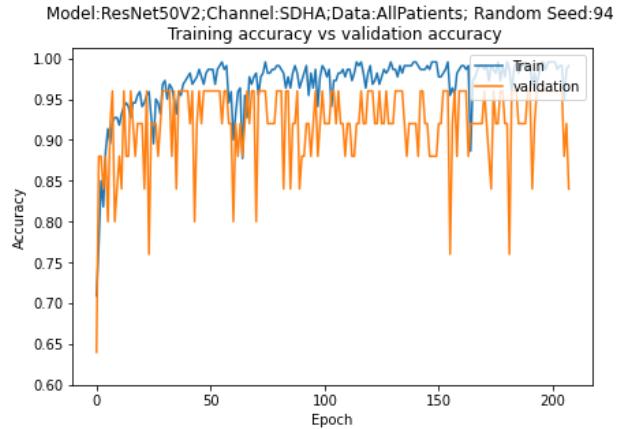
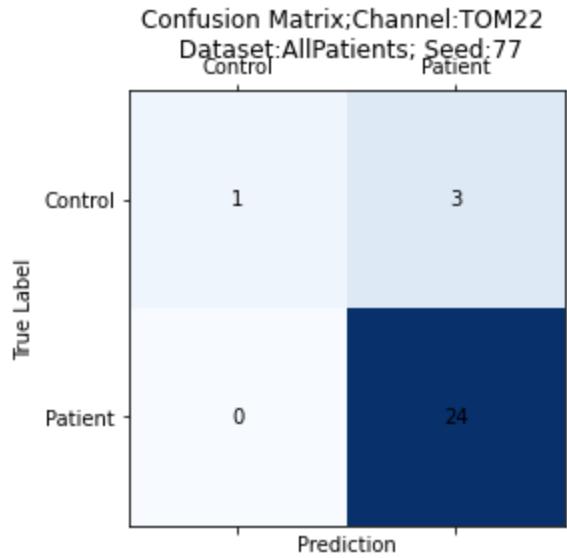
controls	0.67	0.40	0.50	5
patients	0.88	0.96	0.92	23

accuracy		0.86	28	
macro avg	0.77	0.68	0.71	28
weighted avg	0.84	0.86	0.84	28



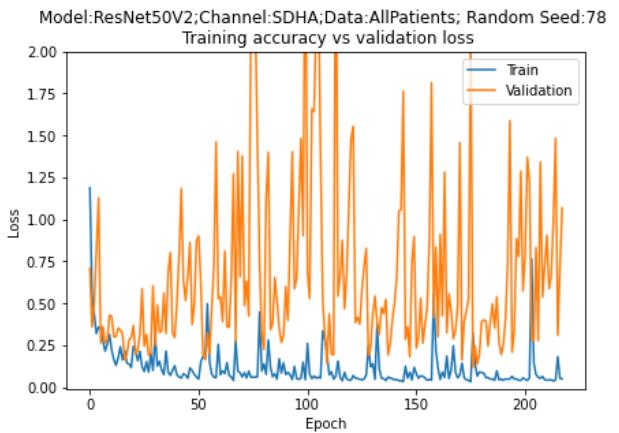
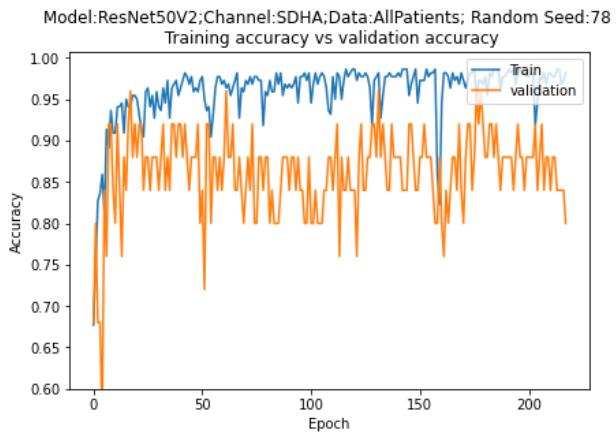
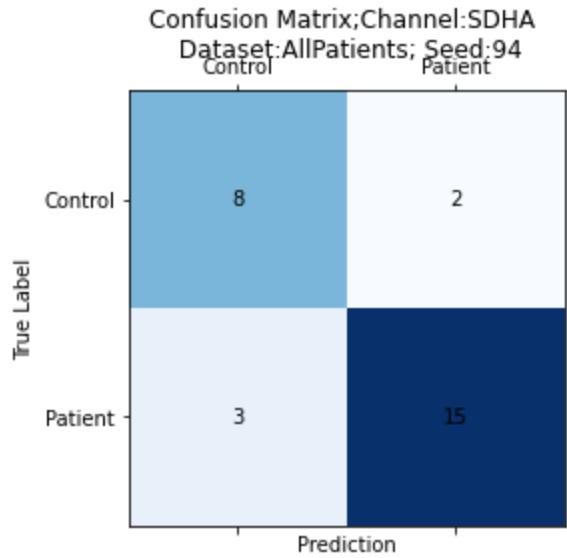
Test Loss: 0.76818
Test Accuracy: 89.29%
precision recall f1-score support

controls	1.00	0.25	0.40	4
patients	0.89	1.00	0.94	24
accuracy		0.89	0.89	28
macro avg	0.94	0.62	0.67	28
weighted avg	0.90	0.89	0.86	28



Test Loss: 0.67232
Test Accuracy: 82.14%
precision recall f1-score support

controls	0.73	0.80	0.76	10
patients	0.88	0.83	0.86	18
accuracy		0.82	0.82	28
macro avg	0.80	0.82	0.81	28
weighted avg	0.83	0.82	0.82	28

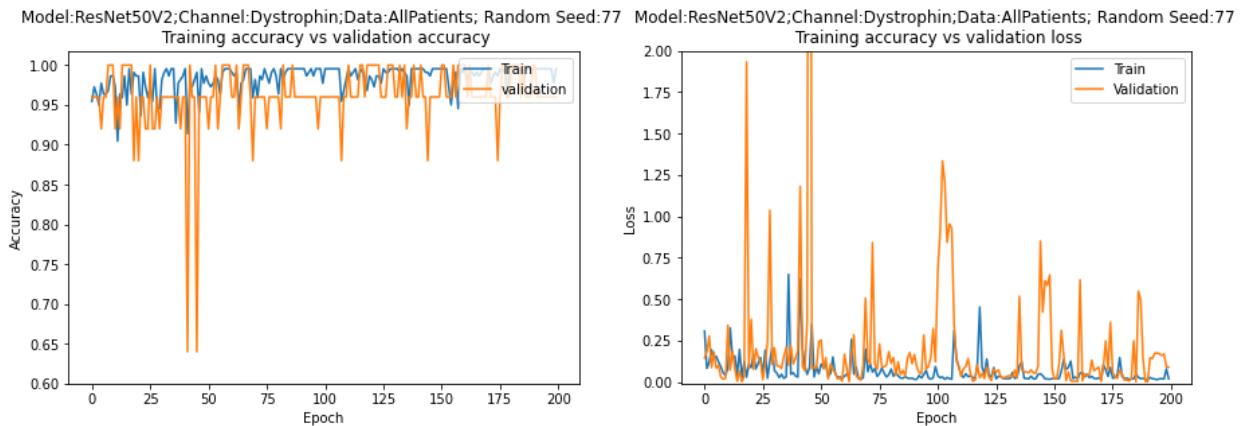
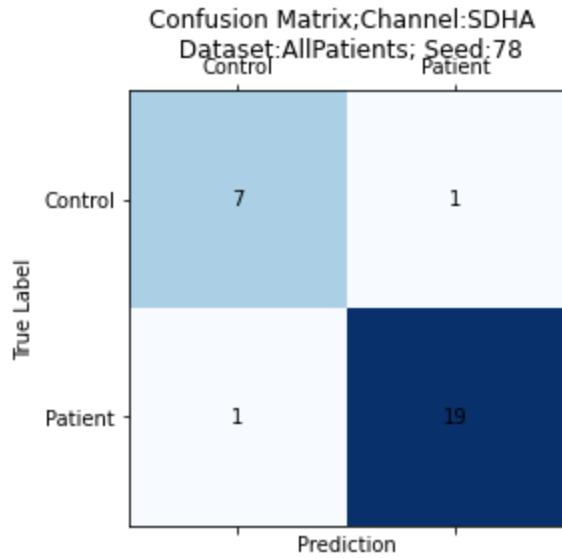


Test Loss: 0.16779

Test Accuracy: 92.86%

precision recall f1-score support

controls	0.88	0.88	0.88	8
patients	0.95	0.95	0.95	20
accuracy		0.93	0.93	28
macro avg	0.91	0.91	0.91	28
weighted avg	0.93	0.93	0.93	28



Test Loss: 0.69009

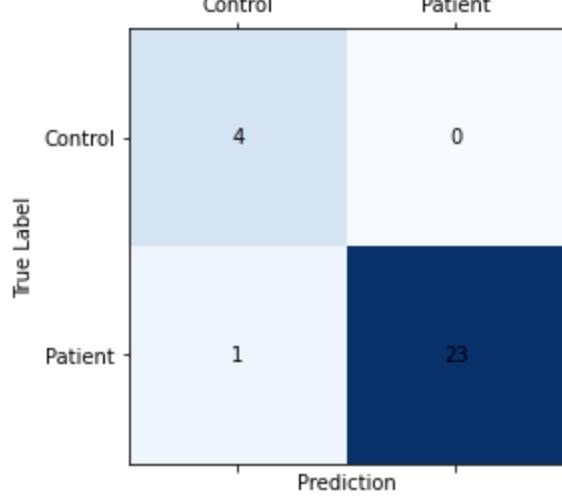
Test Accuracy: 96.43%

precision recall f1-score support

controls	0.80	1.00	0.89	4
patients	1.00	0.96	0.98	24
accuracy			0.96	28
macro avg	0.90	0.98	0.93	28
weighted avg	0.97	0.96	0.97	28

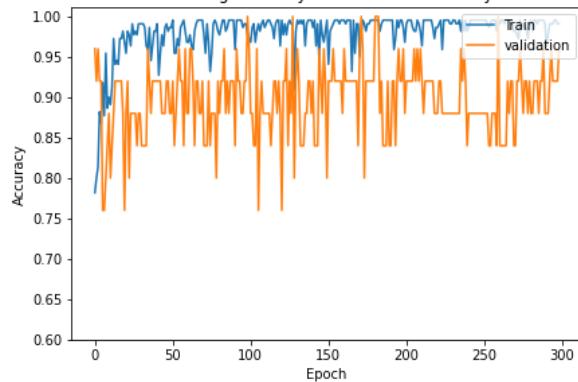
Confusion Matrix; Channel:Dystrophin

Dataset: AllPatients; Seed: 77



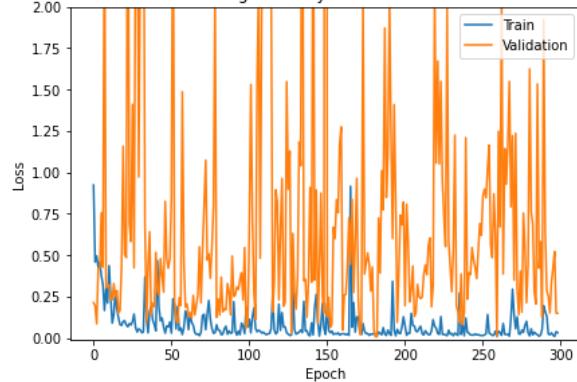
Model:ResNet50V2;Channel:Dystrophin;Data:AllPatients; Random Seed:21

Training accuracy vs validation accuracy



Model:ResNet50V2;Channel:Dystrophin;Data:AllPatients; Random Seed:21

Training accuracy vs validation loss



Test Loss: 0.60984

Test Accuracy: 96.43%

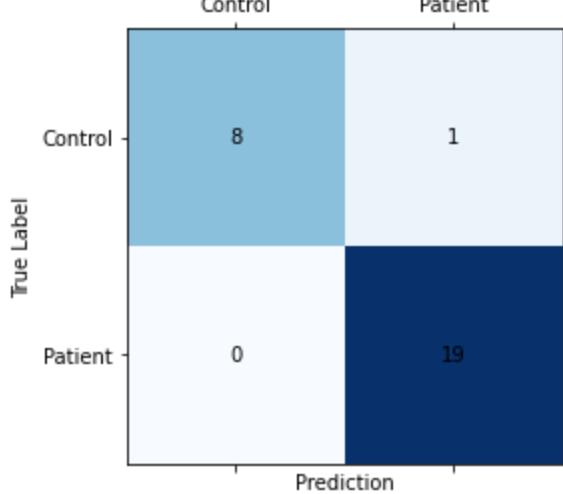
precision recall f1-score support

controls	1.00	0.89	0.94	9
patients	0.95	1.00	0.97	19

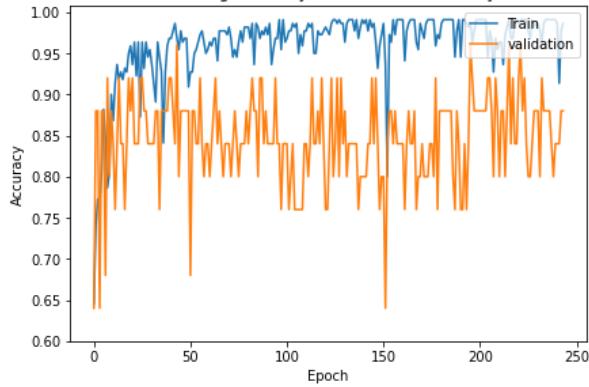
accuracy		0.96	28	
macro avg	0.97	0.94	0.96	28
weighted avg	0.97	0.96	0.96	28

Confusion Matrix; Channel:Dystrophin

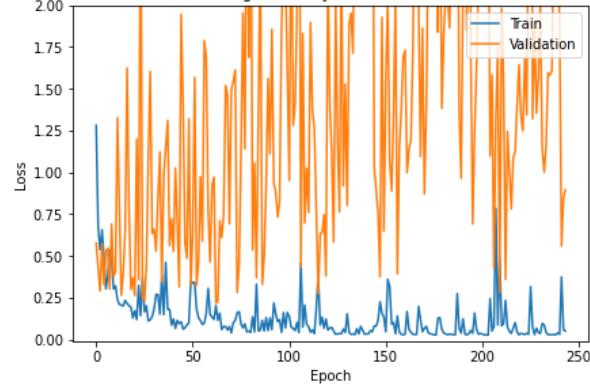
Dataset: AllPatients; Seed:21



Model:ResNet50V2;Channel:GRIM19;Data:AllPatients; Random Seed:77
Training accuracy vs validation accuracy



Model:ResNet50V2;Channel:GRIM19;Data:AllPatients; Random Seed:77
Training accuracy vs validation loss



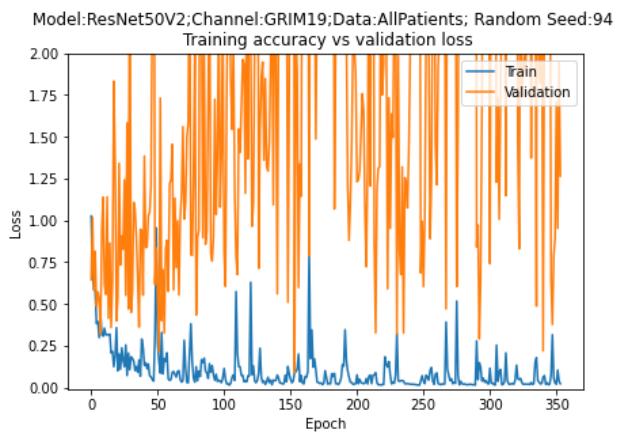
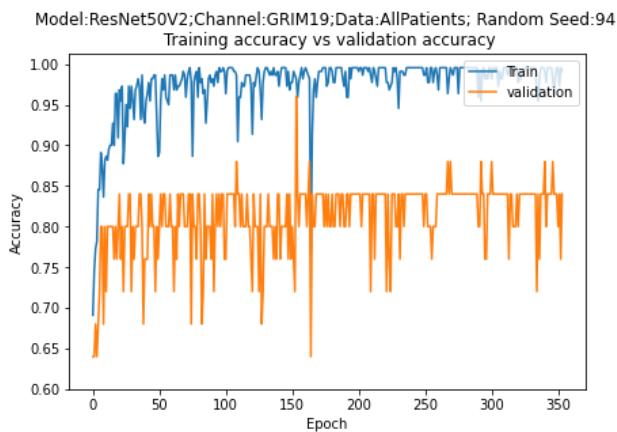
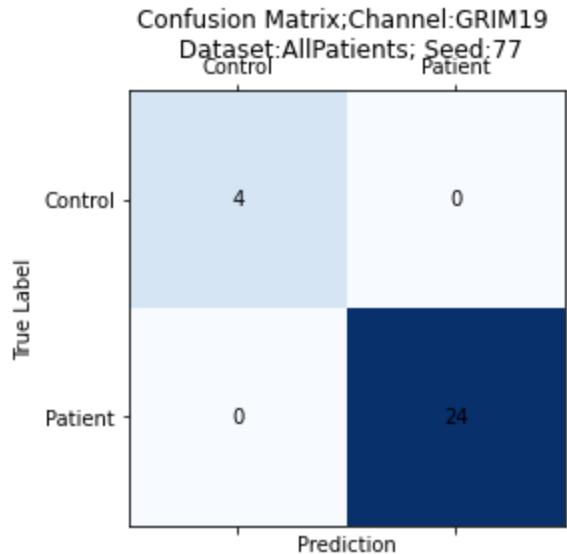
Test Loss: 0.03474

Test Accuracy: 100.00%

precision recall f1-score support

controls	1.00	1.00	1.00	4
patients	1.00	1.00	1.00	24

accuracy		1.00	28
macro avg	1.00	1.00	1.00
weighted avg	1.00	1.00	1.00



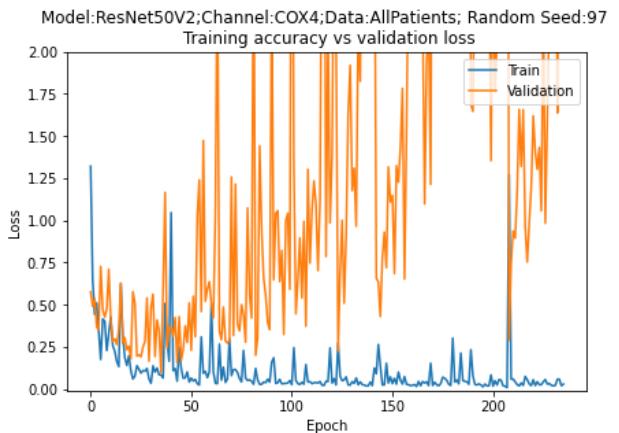
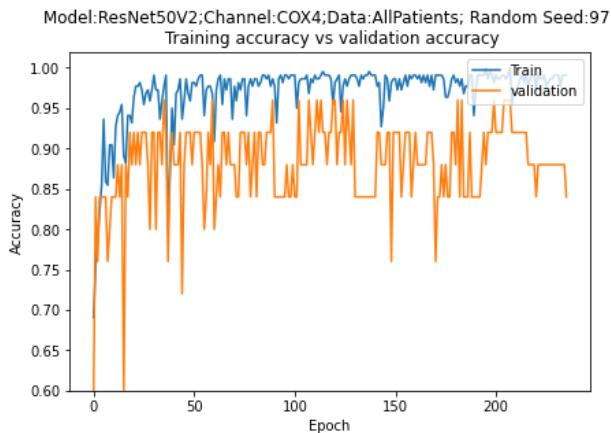
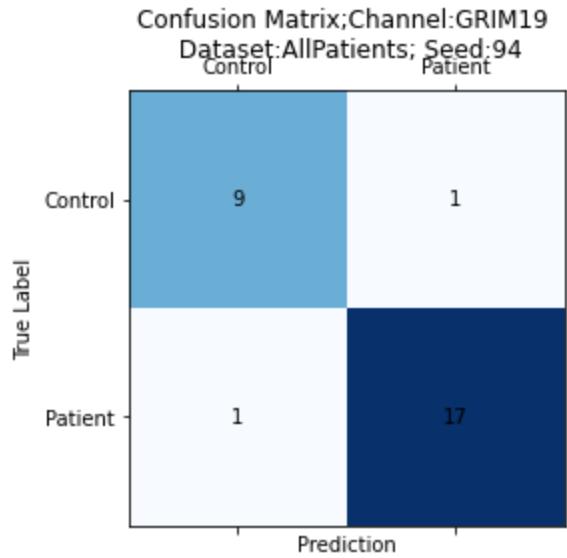
Test Loss: 0.38590

Test Accuracy: 92.86%

precision recall f1-score support

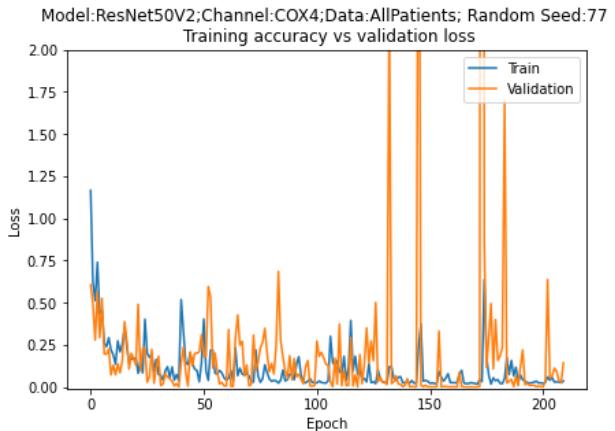
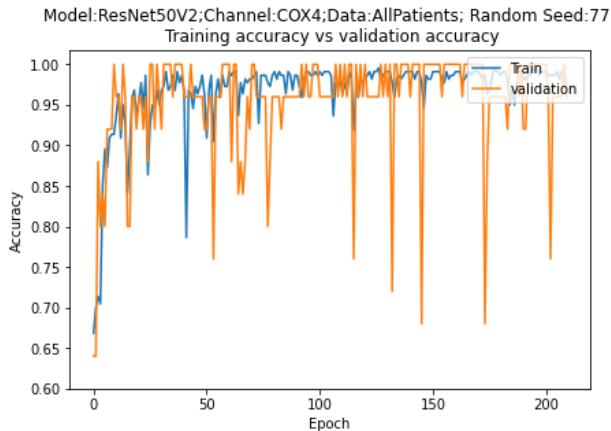
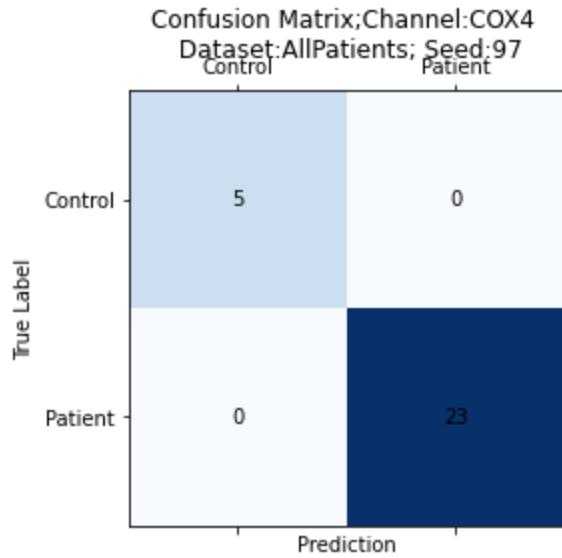
controls	0.90	0.90	0.90	10
patients	0.94	0.94	0.94	18

accuracy		0.93	28	
macro avg	0.92	0.92	0.92	28
weighted avg	0.93	0.93	0.93	28



Test Loss: 0.04251
Test Accuracy: 100.00%
precision recall f1-score support

controls	1.00	1.00	1.00	5
patients	1.00	1.00	1.00	23
accuracy			1.00	28
macro avg	1.00	1.00	1.00	28
weighted avg	1.00	1.00	1.00	28

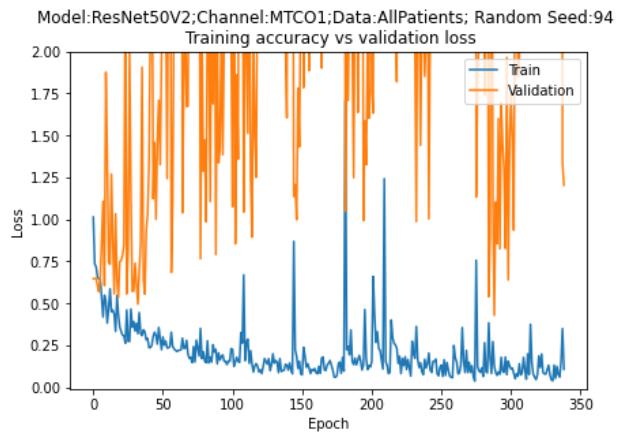
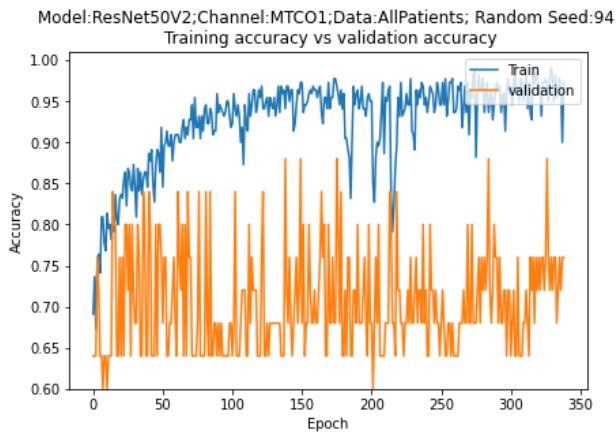
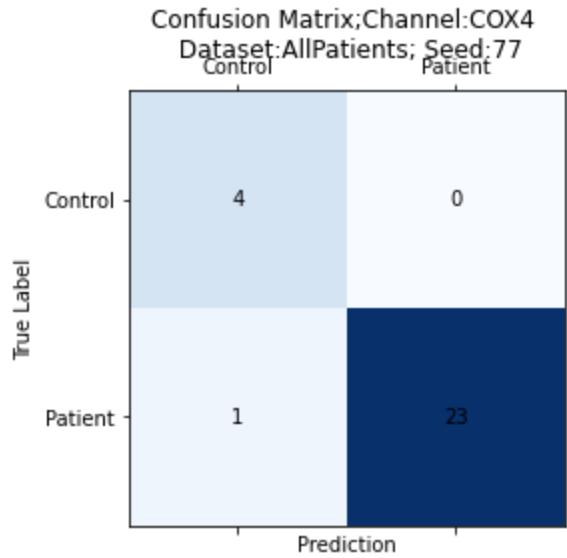


Test Loss: 0.12459

Test Accuracy: 96.43%

precision recall f1-score support

controls	0.80	1.00	0.89	4
patients	1.00	0.96	0.98	24
accuracy			0.96	28
macro avg	0.90	0.98	0.93	28
weighted avg	0.97	0.96	0.97	28

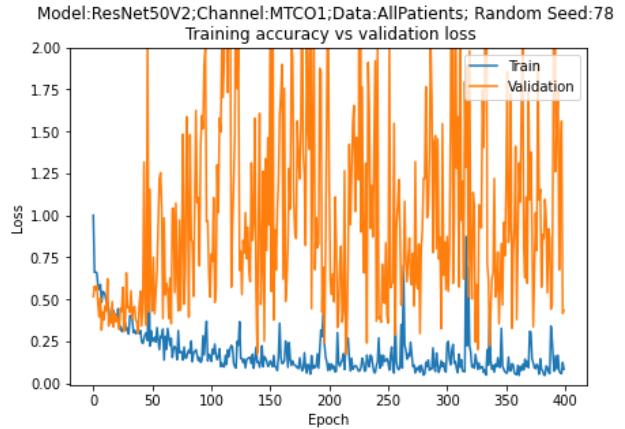
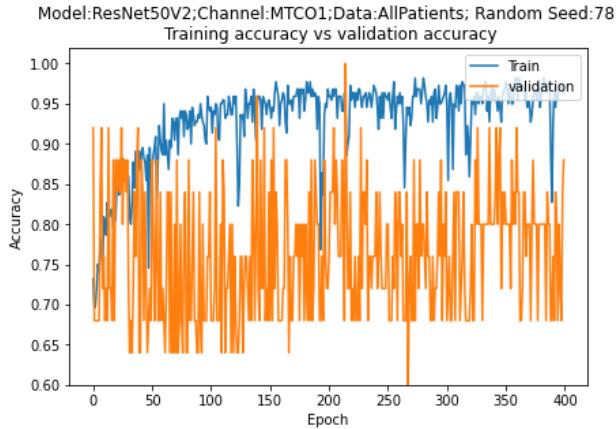
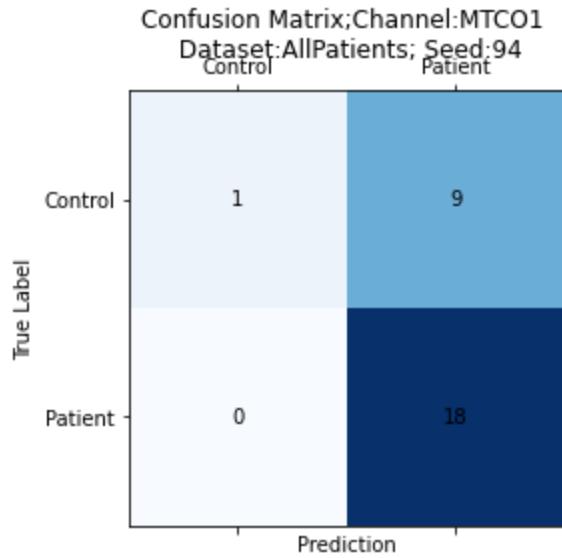


Test Loss: 3.05228

Test Accuracy: 67.86%

precision recall f1-score support

controls	1.00	0.10	0.18	10
patients	0.67	1.00	0.80	18
accuracy			0.68	28
macro avg	0.83	0.55	0.49	28
weighted avg	0.79	0.68	0.58	28

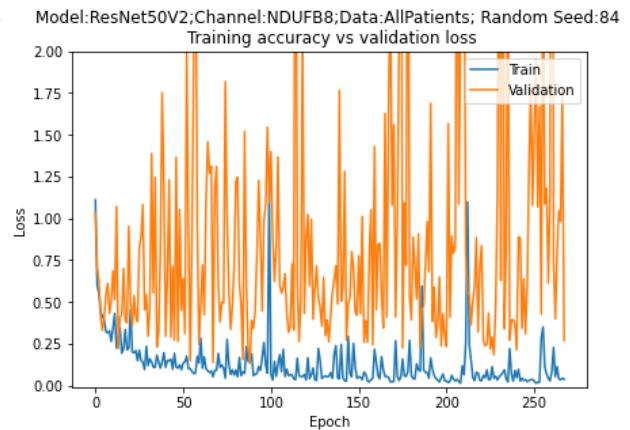
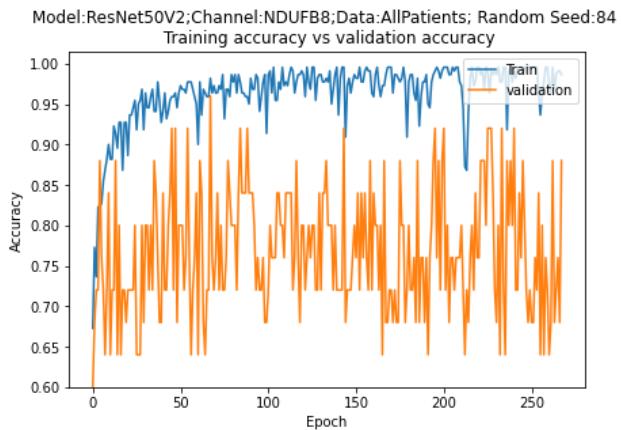
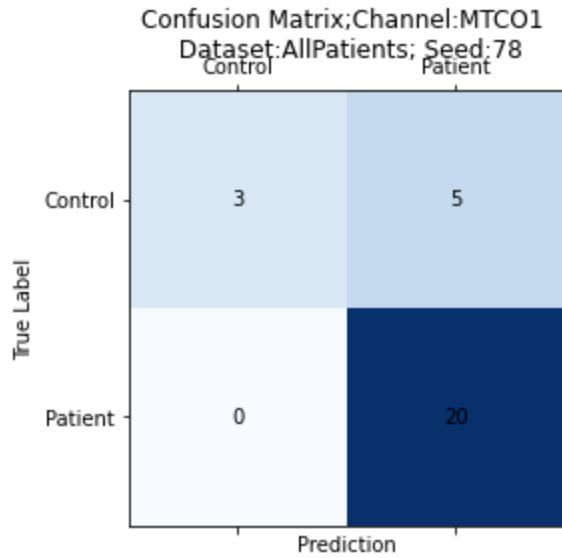


Test Loss: 0.50199

Test Accuracy: 82.14%

precision recall f1-score support

controls	1.00	0.38	0.55	8
patients	0.80	1.00	0.89	20
accuracy			0.82	28
macro avg	0.90	0.69	0.72	28
weighted avg	0.86	0.82	0.79	28

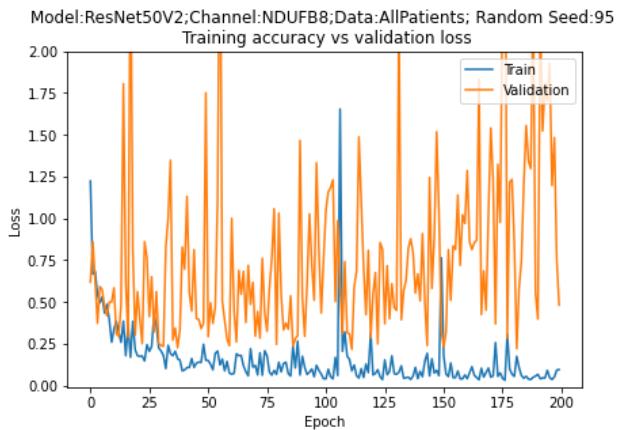
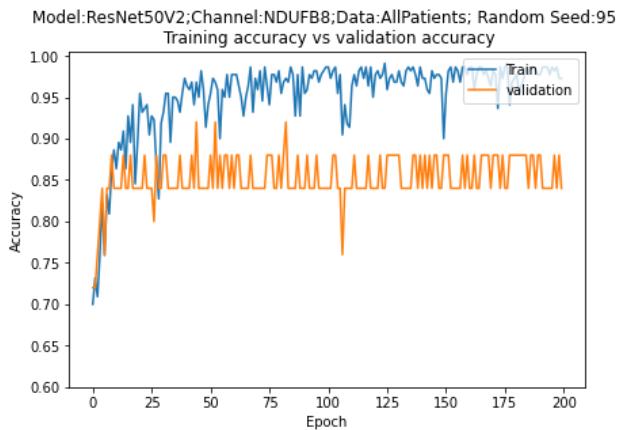
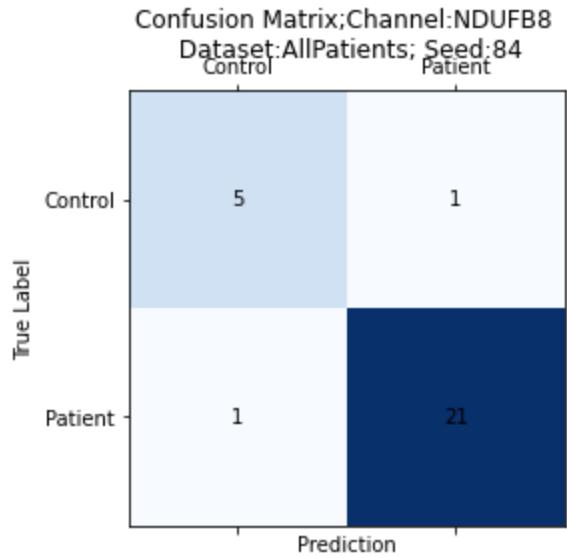


Test Loss: 0.19022

Test Accuracy: 92.86%

precision recall f1-score support

controls	0.83	0.83	0.83	6
patients	0.95	0.95	0.95	22
accuracy		0.93	0.93	28
macro avg	0.89	0.89	0.89	28
weighted avg	0.93	0.93	0.93	28

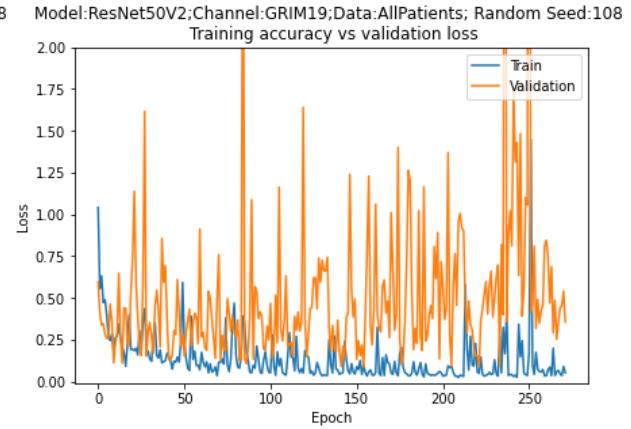
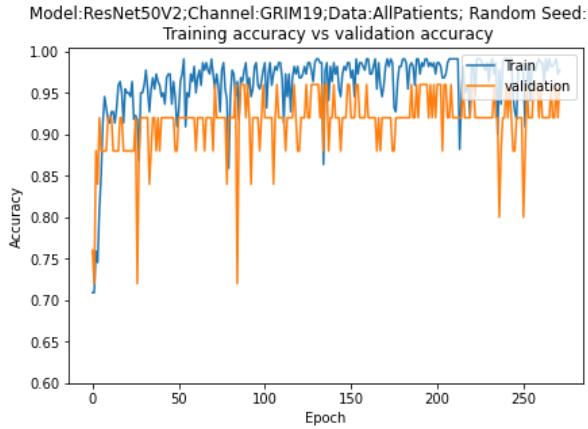
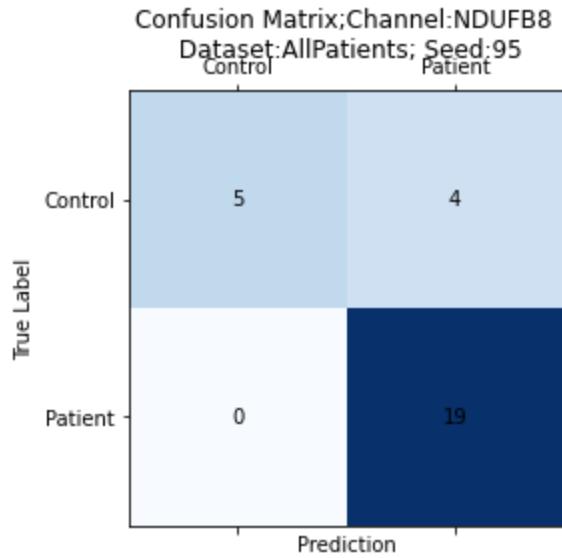


Test Loss: 0.65743

Test Accuracy: 85.71%

precision recall f1-score support

controls	1.00	0.56	0.71	9
patients	0.83	1.00	0.90	19
accuracy		0.86	0.86	28
macro avg	0.91	0.78	0.81	28
weighted avg	0.88	0.86	0.84	28

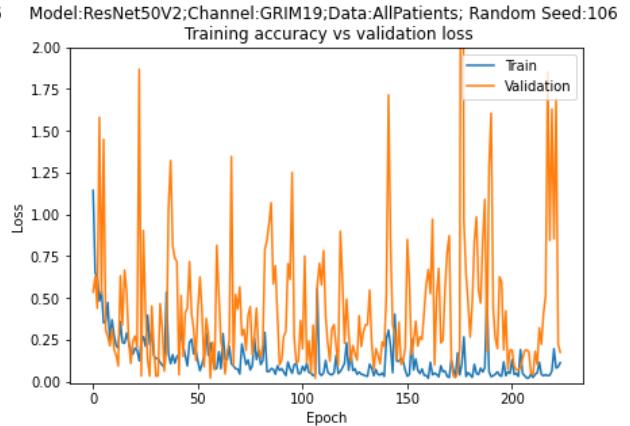
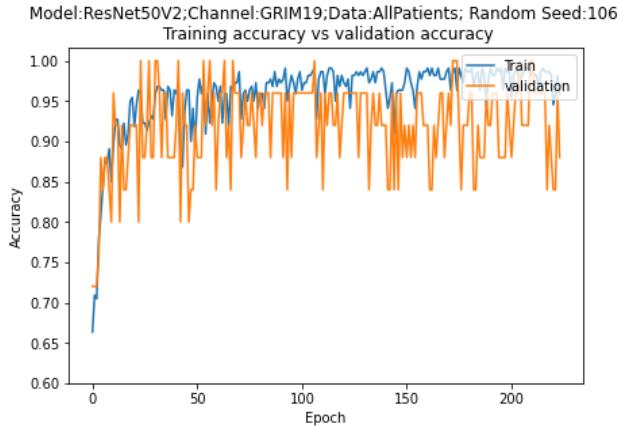
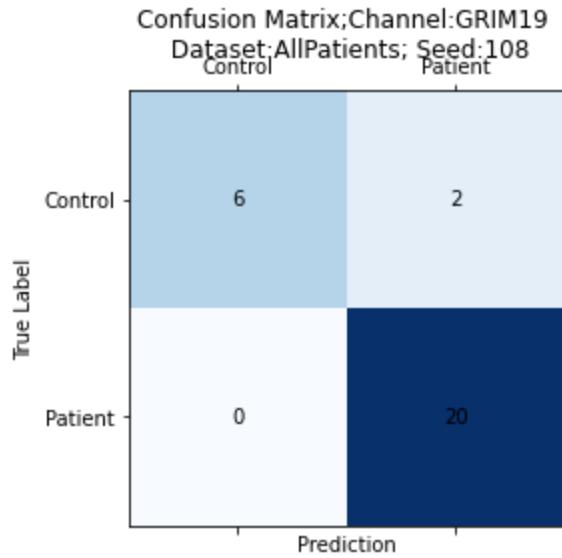


Test Loss: 0.26726

Test Accuracy: 92.86%

precision recall f1-score support

controls	1.00	0.75	0.86	8
patients	0.91	1.00	0.95	20
accuracy			0.93	28
macro avg	0.95	0.88	0.90	28
weighted avg	0.94	0.93	0.93	28



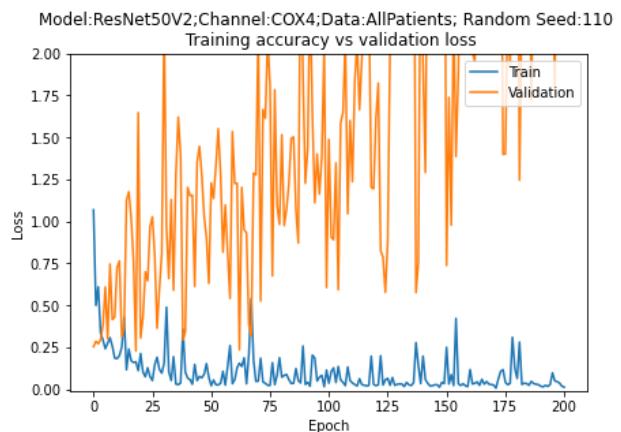
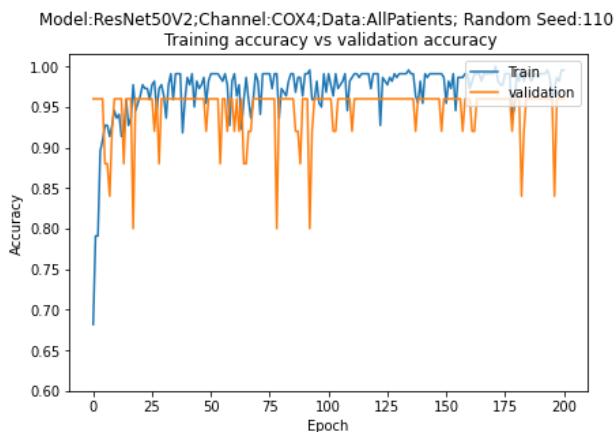
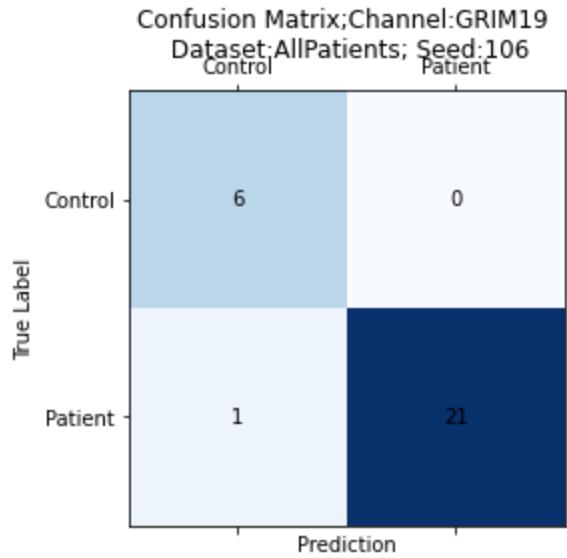
Test Loss: 0.09403

Test Accuracy: 96.43%

precision recall f1-score support

controls	0.86	1.00	0.92	6
patients	1.00	0.95	0.98	22

accuracy		0.96	28	
macro avg	0.93	0.98	0.95	28
weighted avg	0.97	0.96	0.97	28

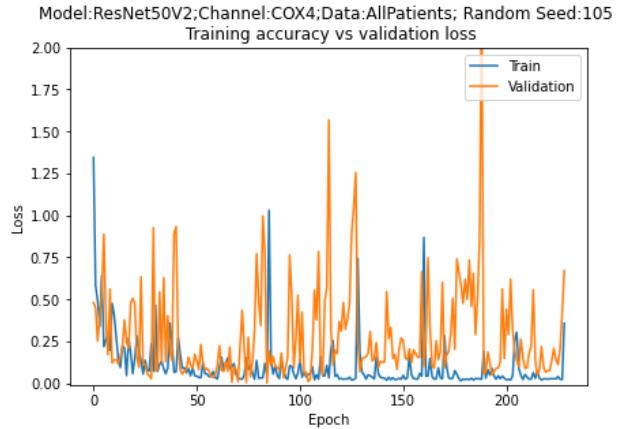
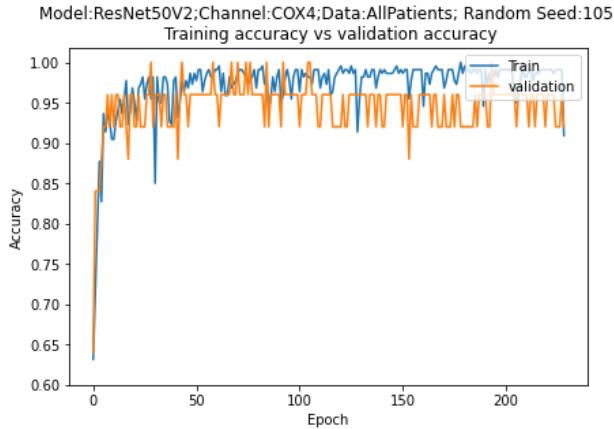
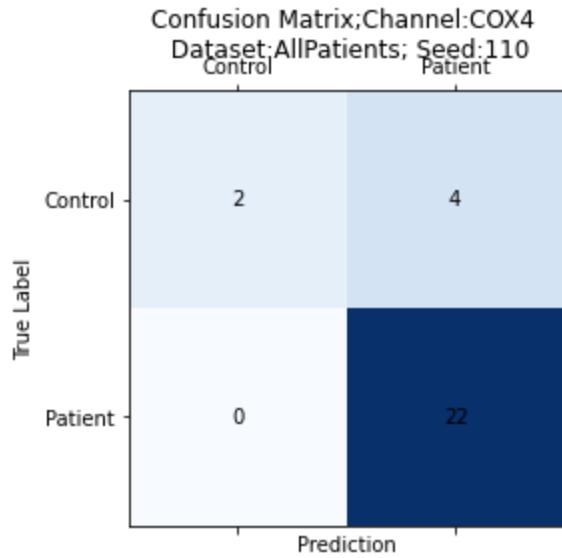


Test Loss: 0.41279

Test Accuracy: 85.71%

precision recall f1-score support

controls	1.00	0.33	0.50	6
patients	0.85	1.00	0.92	22
accuracy			0.86	28
macro avg	0.92	0.67	0.71	28
weighted avg	0.88	0.86	0.83	28



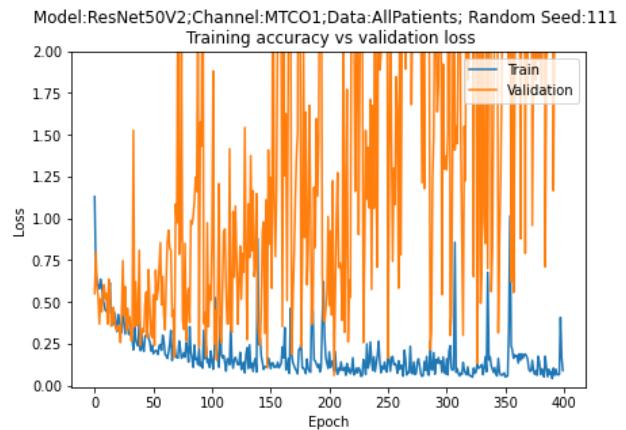
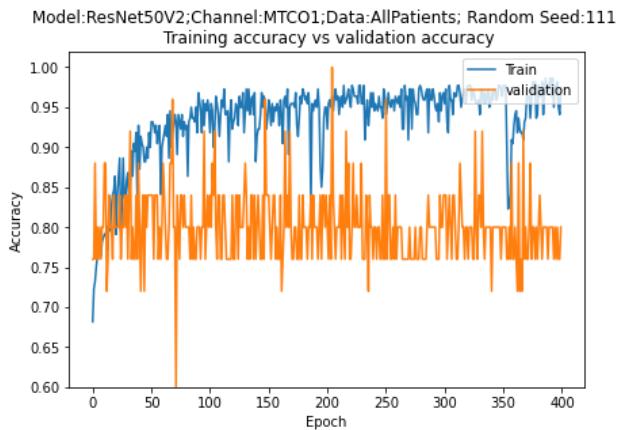
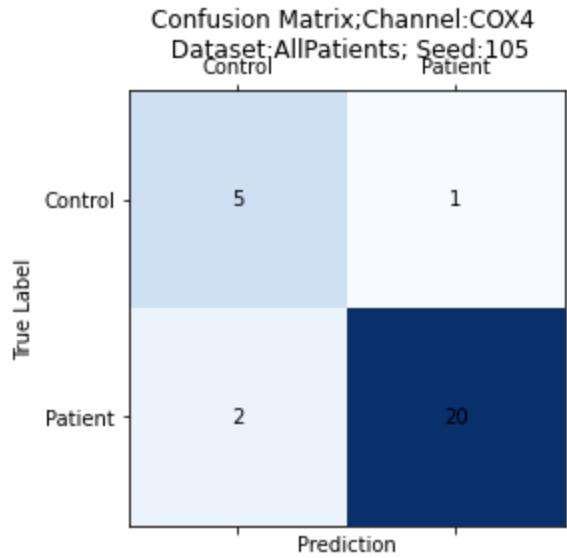
Test Loss: 0.44128

Test Accuracy: 89.29%

precision recall f1-score support

controls	0.71	0.83	0.77	6
patients	0.95	0.91	0.93	22

accuracy		0.89	28	
macro avg	0.83	0.87	0.85	28
weighted avg	0.90	0.89	0.90	28

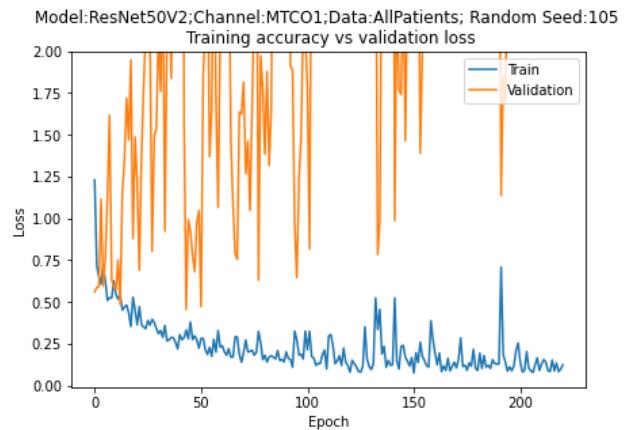
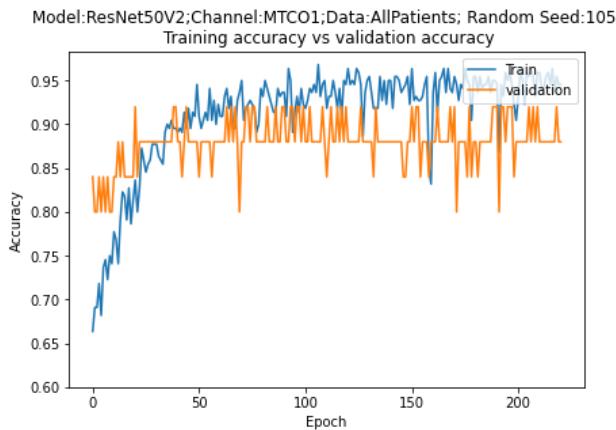
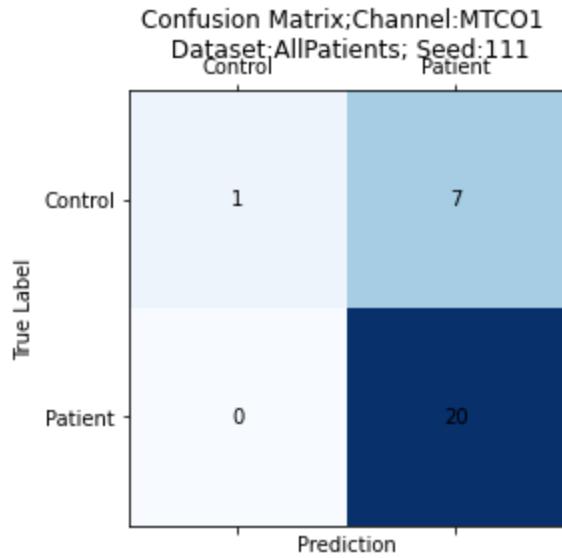


Test Loss: 2.42705

Test Accuracy: 75.00%

precision recall f1-score support

controls	1.00	0.12	0.22	8
patients	0.74	1.00	0.85	20
accuracy		0.75	0.75	28
macro avg	0.87	0.56	0.54	28
weighted avg	0.81	0.75	0.67	28



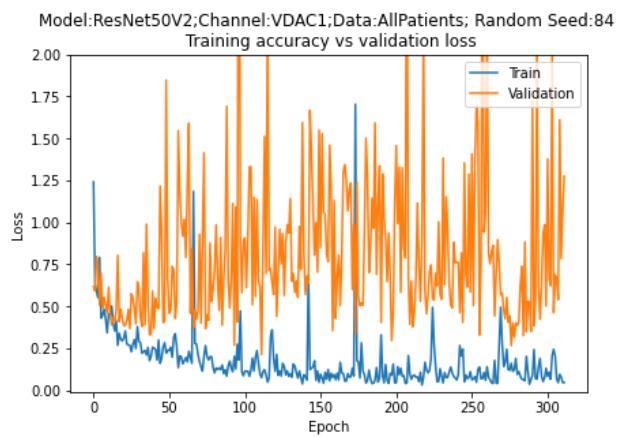
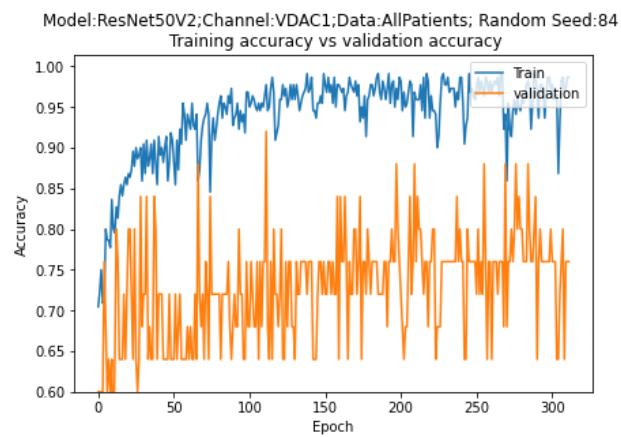
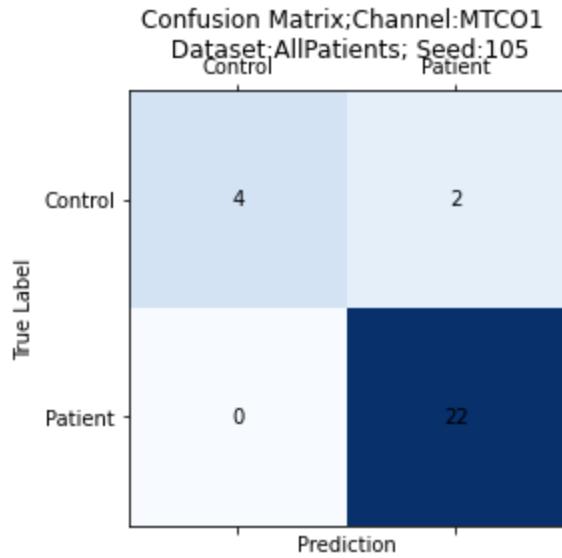
Test Loss: 0.41389

Test Accuracy: 92.86%

precision recall f1-score support

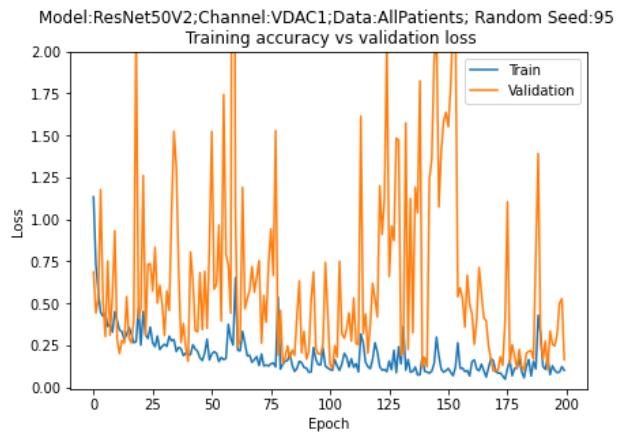
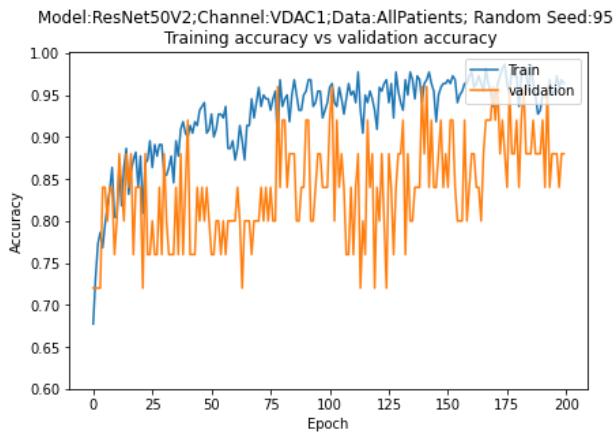
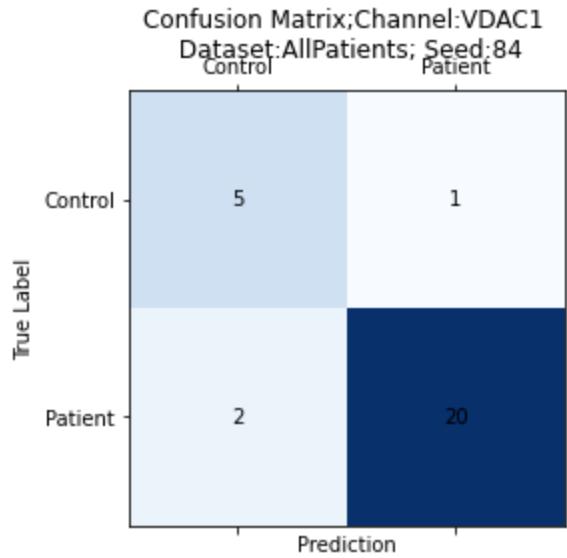
controls	1.00	0.67	0.80	6
patients	0.92	1.00	0.96	22

accuracy		0.93	28	
macro avg	0.96	0.83	0.88	28
weighted avg	0.93	0.93	0.92	28



Test Loss: 0.67580
Test Accuracy: 89.29%

	precision	recall	f1-score	support
controls	0.71	0.83	0.77	6
patients	0.95	0.91	0.93	22
accuracy			0.89	28
macro avg	0.83	0.87	0.85	28
weighted avg	0.90	0.89	0.90	28

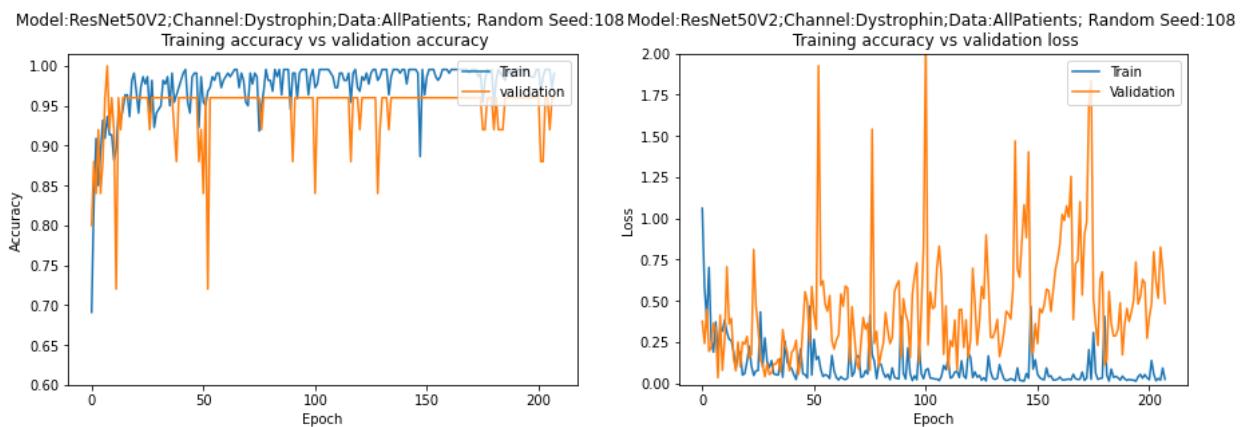
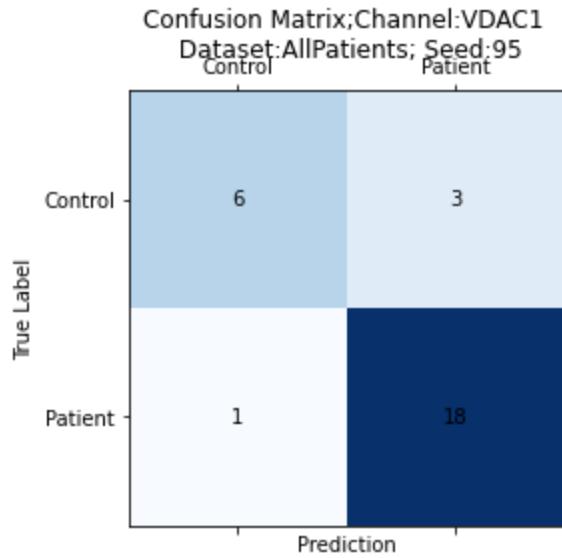


Test Loss: 1.99084

Test Accuracy: 85.71%

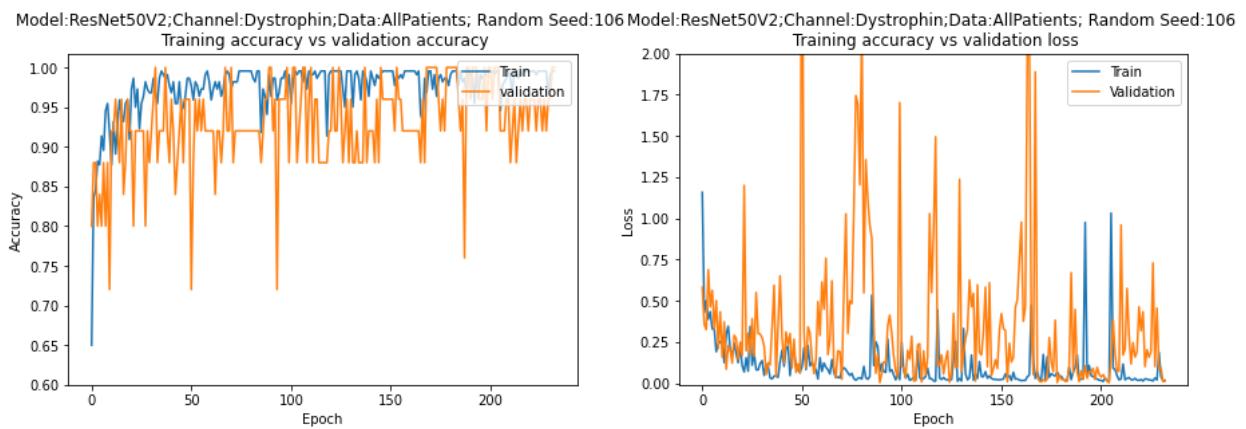
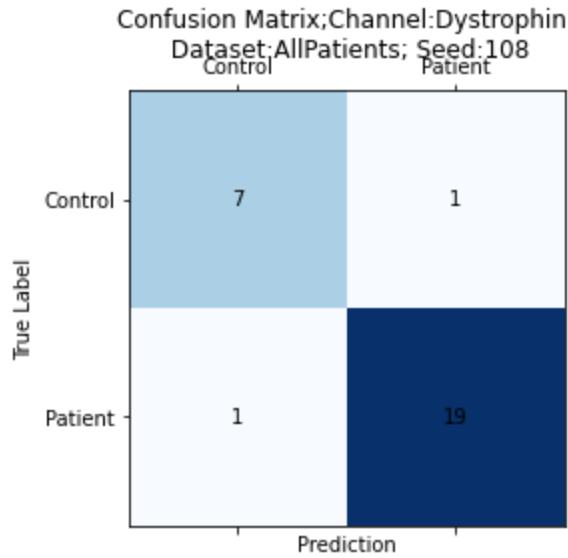
precision recall f1-score support

controls	0.86	0.67	0.75	9
patients	0.86	0.95	0.90	19
accuracy		0.86	0.86	28
macro avg	0.86	0.81	0.82	28
weighted avg	0.86	0.86	0.85	28



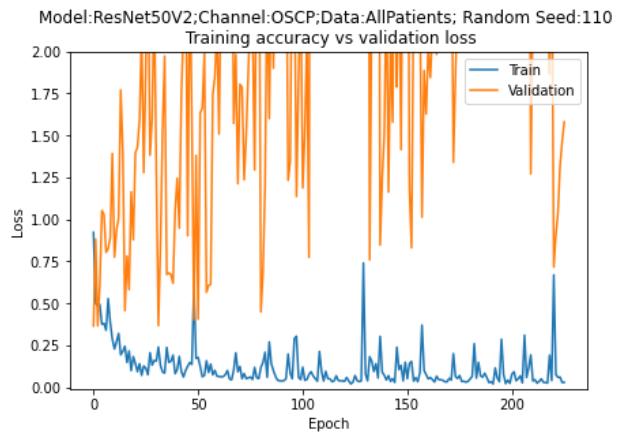
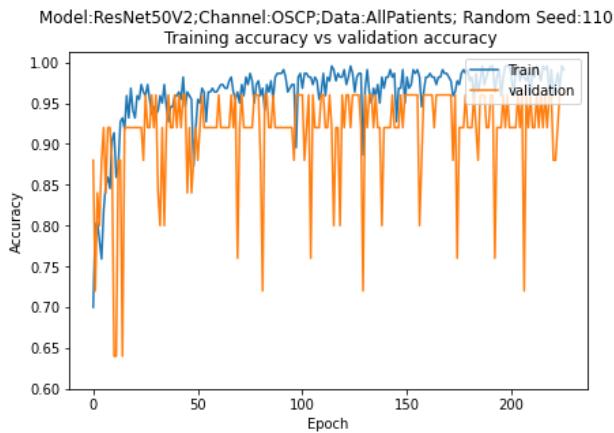
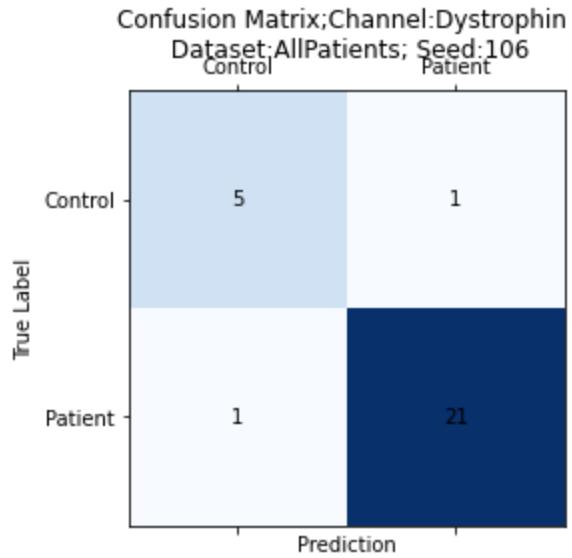
Test Loss: 0.50512
Test Accuracy: 92.86%

	precision	recall	f1-score	support
controls	0.88	0.88	0.88	8
patients	0.95	0.95	0.95	20
accuracy		0.93	0.93	28
macro avg	0.91	0.91	0.91	28
weighted avg	0.93	0.93	0.93	28



Test Loss: 0.15076
Test Accuracy: 92.86%

	precision	recall	f1-score	support
controls	0.83	0.83	0.83	6
patients	0.95	0.95	0.95	22
accuracy		0.93	0.93	28
macro avg	0.89	0.89	0.89	28
weighted avg	0.93	0.93	0.93	28

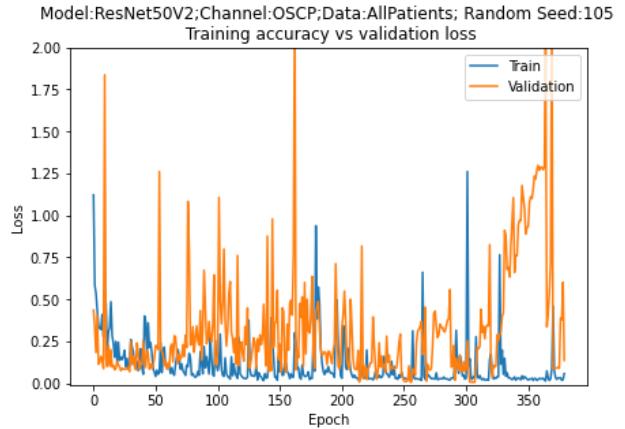
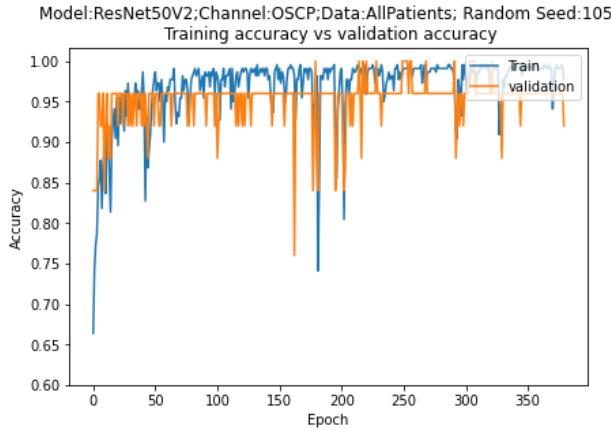
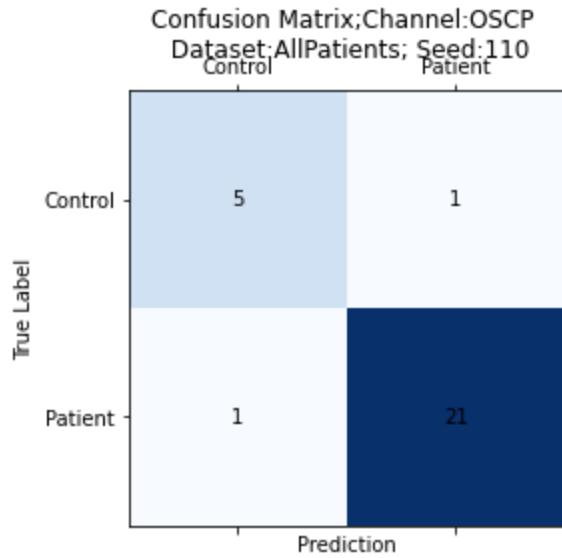


Test Loss: 0.35930

Test Accuracy: 92.86%

precision recall f1-score support

controls	0.83	0.83	0.83	6
patients	0.95	0.95	0.95	22
accuracy		0.93	0.93	28
macro avg	0.89	0.89	0.89	28
weighted avg	0.93	0.93	0.93	28



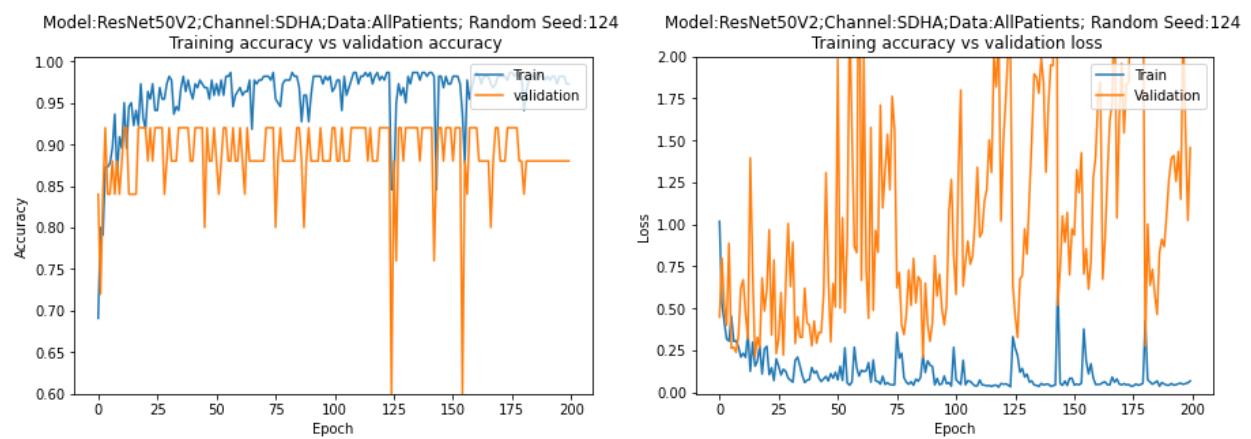
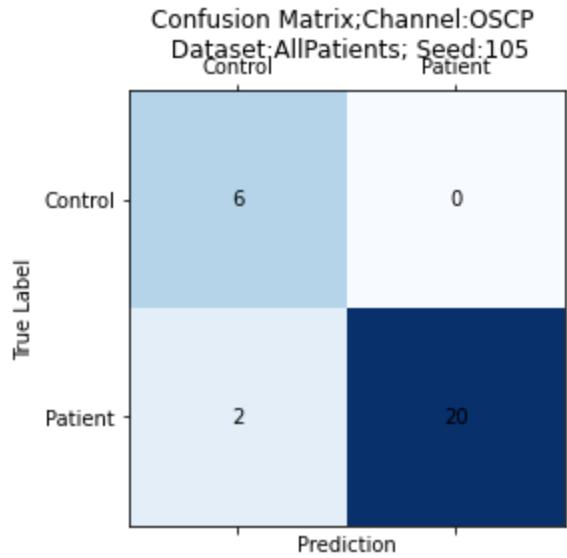
Test Loss: 0.63331

Test Accuracy: 92.86%

precision recall f1-score support

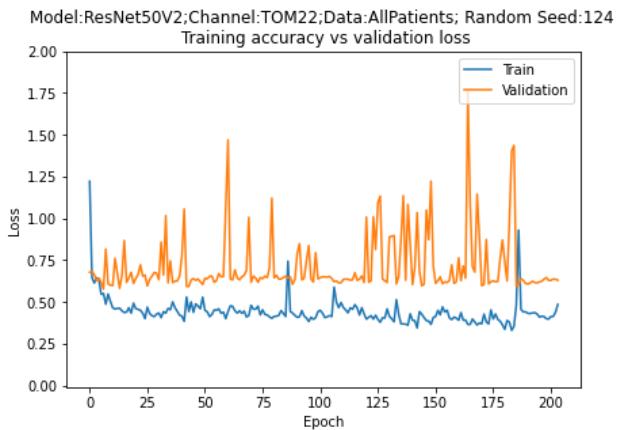
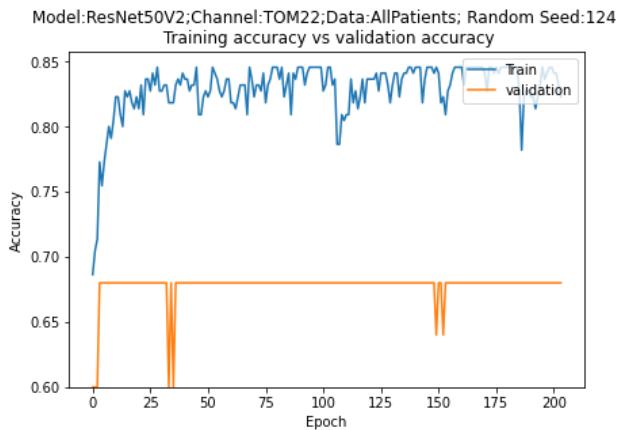
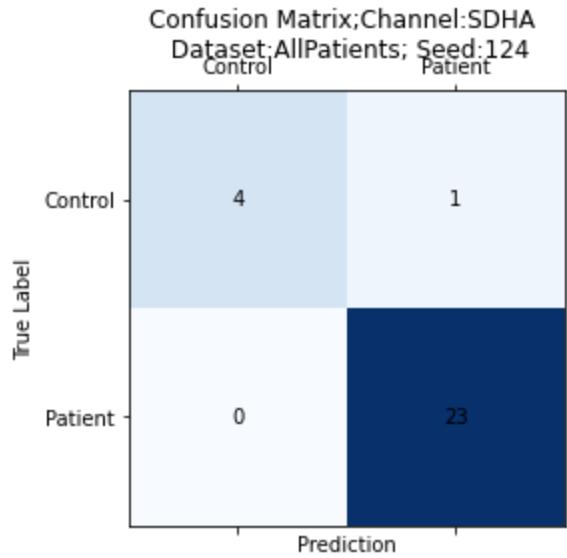
controls	0.75	1.00	0.86	6
patients	1.00	0.91	0.95	22

accuracy		0.93	28	
macro avg	0.88	0.95	0.90	28
weighted avg	0.95	0.93	0.93	28



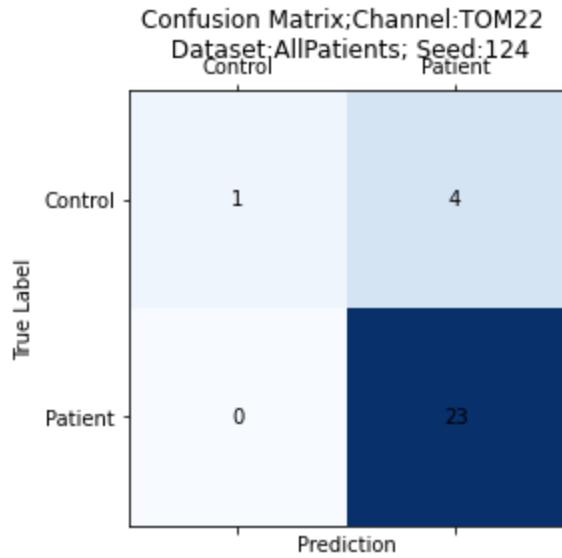
Test Loss: 0.23178
Test Accuracy: 96.43%
precision recall f1-score support

controls	1.00	0.80	0.89	5
patients	0.96	1.00	0.98	23
accuracy		0.96	0.96	28
macro avg	0.98	0.90	0.93	28
weighted avg	0.97	0.96	0.96	28

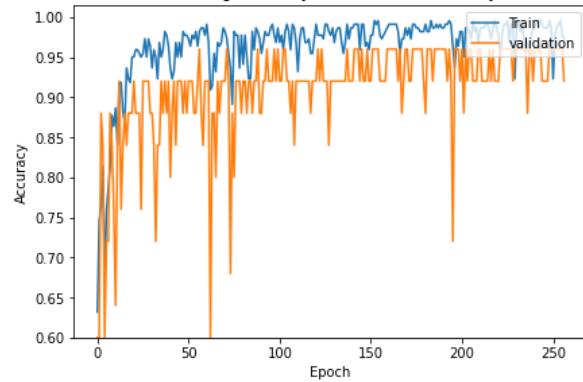


Test Loss: 0.41256
Test Accuracy: 85.71%
precision recall f1-score support

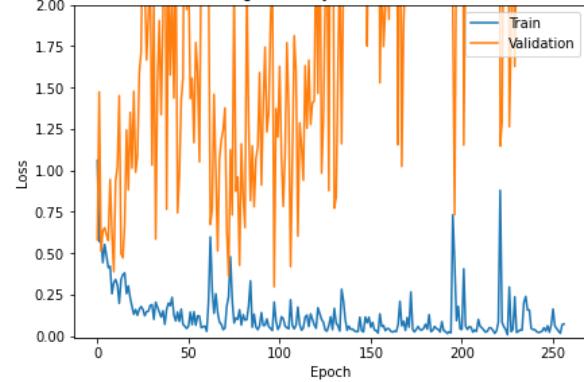
controls	1.00	0.20	0.33	5
patients	0.85	1.00	0.92	23
accuracy		0.86	0.86	28
macro avg	0.93	0.60	0.63	28
weighted avg	0.88	0.86	0.82	28



Model:ResNet50V2;Channel:UqCRC2;Data:AllPatients; Random Seed:124
Training accuracy vs validation accuracy



Model:ResNet50V2;Channel:UqCRC2;Data:AllPatients; Random Seed:124
Training accuracy vs validation loss



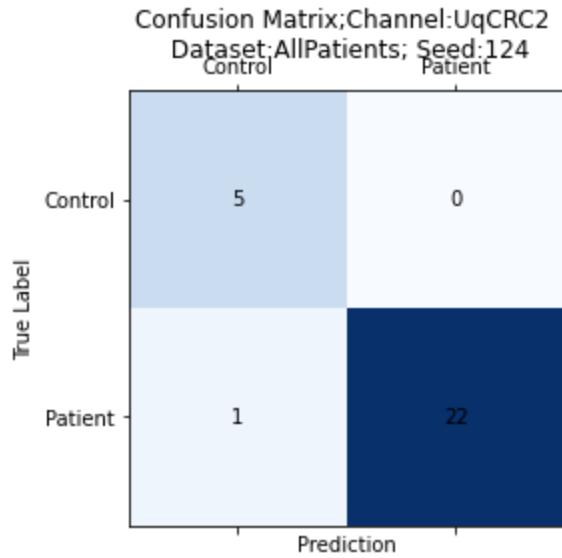
Test Loss: 0.07167

Test Accuracy: 96.43%

precision recall f1-score support

controls	0.83	1.00	0.91	5
patients	1.00	0.96	0.98	23

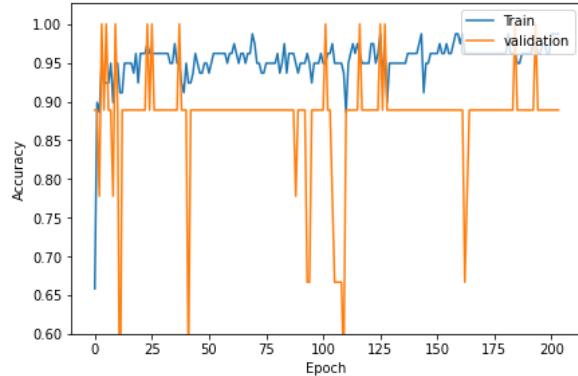
	accuracy		0.96	28
macro avg	0.92	0.98	0.94	28
weighted avg	0.97	0.96	0.97	28



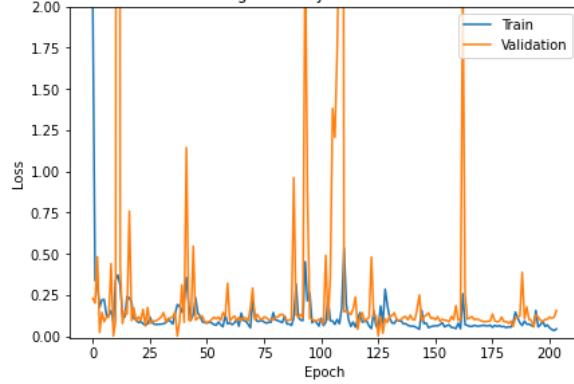
nDNA

Model:ResNet50V2;Channel:NDUFB8;Data:nDNAPatients; Random Seed:86 Model:ResNet50V2;Channel:NDUFB8;Data:nDNAPatients; Random Seed:86

Training accuracy vs validation accuracy



Training accuracy vs validation loss



Test Loss: 0.00589

Test Accuracy: 100.00%

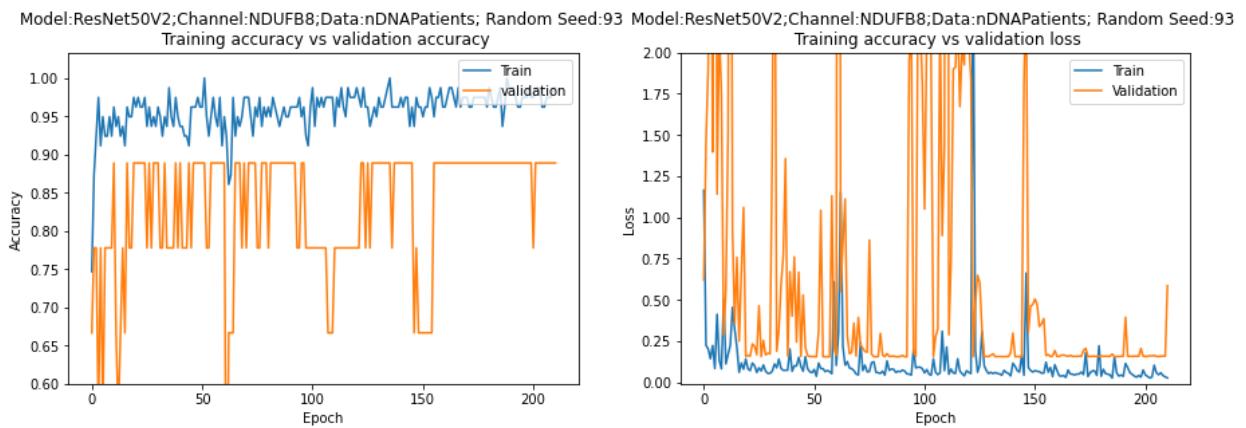
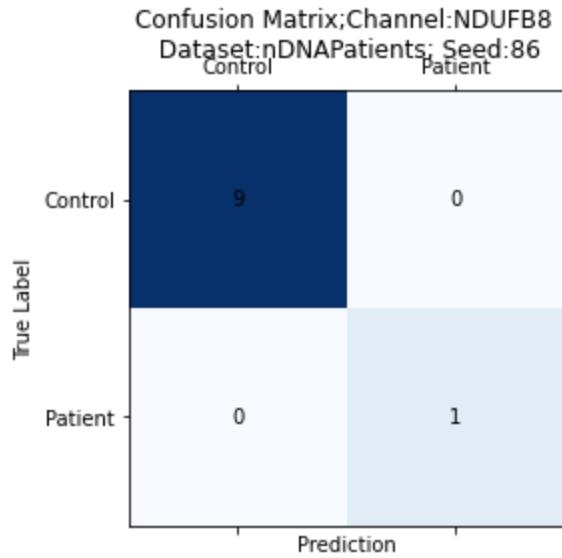
precision recall f1-score support

	controls	nDNA_patients	
precision	1.00	1.00	9
recall	1.00	1.00	1

accuracy

	controls	nDNA_patients	
macro avg	1.00	1.00	1.00
weighted avg	1.00	1.00	1.00

	accuracy	precision	recall	f1-score	support
controls	1.00	1.00	1.00	1.00	9
nDNA_patients	1.00	1.00	1.00	1.00	1



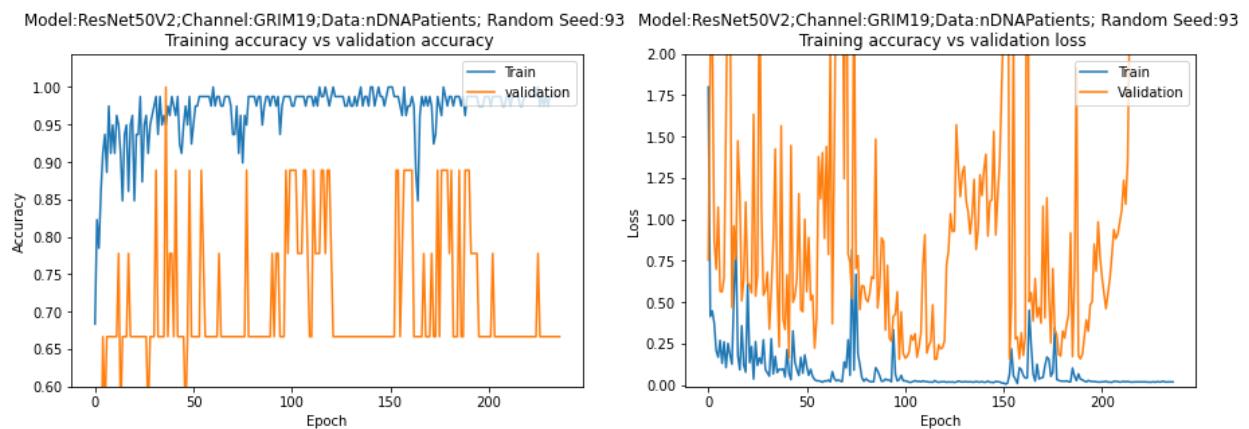
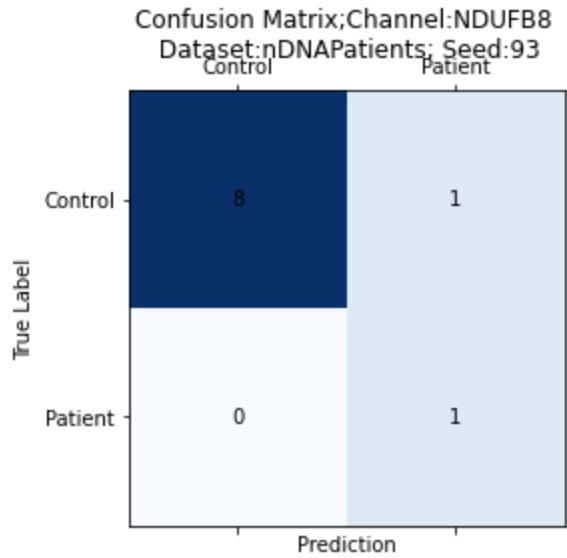
Test Loss: 0.59964

Test Accuracy: 90.00%

precision recall f1-score support

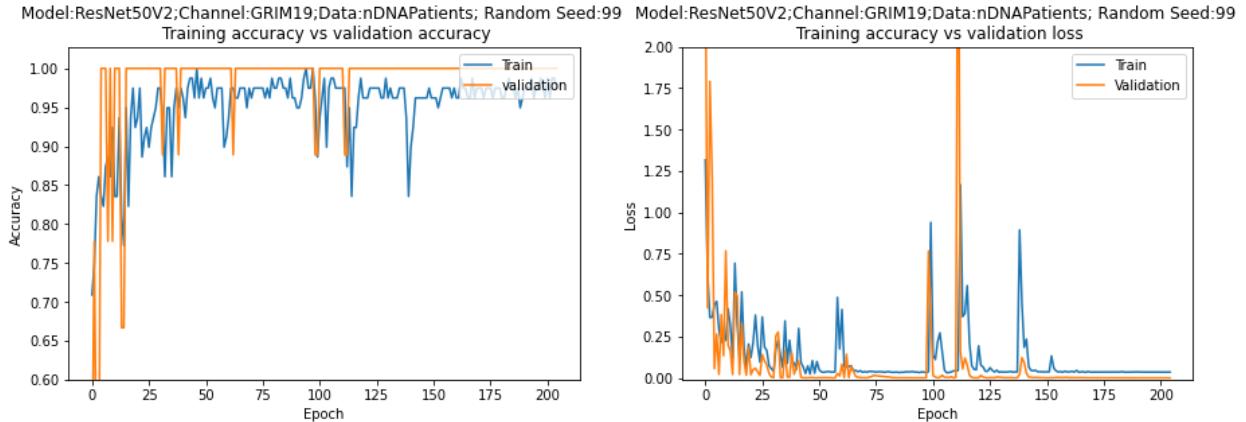
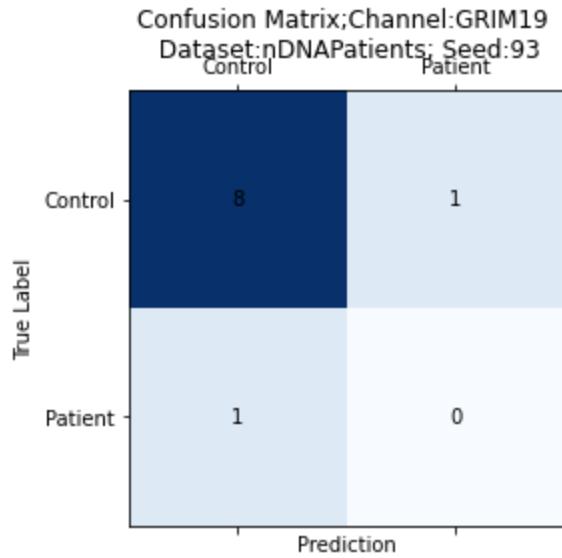
controls	1.00	0.89	0.94	9
nDNA_patients	0.50	1.00	0.67	1

accuracy		0.90	10	
macro avg	0.75	0.94	0.80	10
weighted avg	0.95	0.90	0.91	10



Test Loss: 0.37774
Test Accuracy: 80.00%

	precision	recall	f1-score	support
controls	0.89	0.89	0.89	9
nDNA_patients	0.00	0.00	0.00	1
accuracy			0.80	10
macro avg	0.44	0.44	0.44	10
weighted avg	0.80	0.80	0.80	10



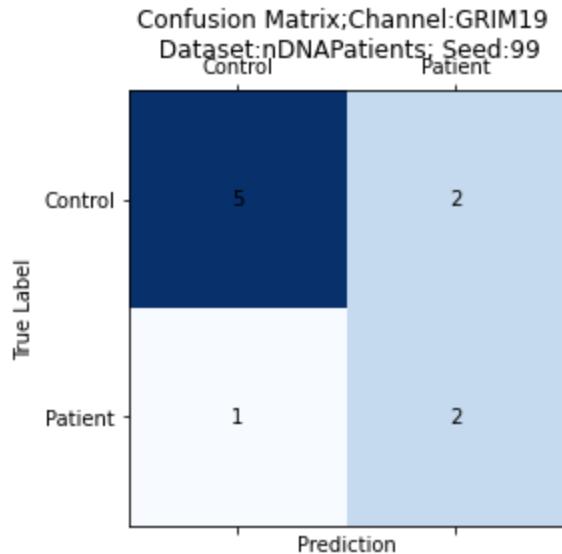
Test Loss: 0.81002

Test Accuracy: 70.00%

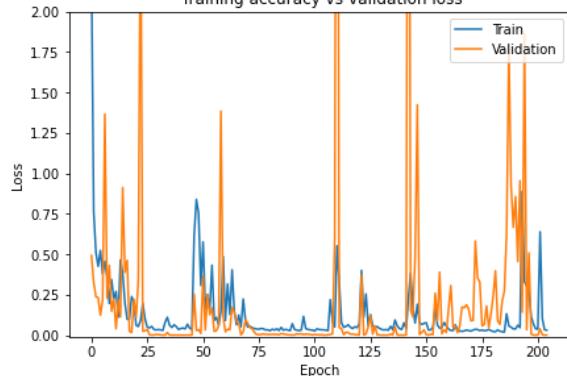
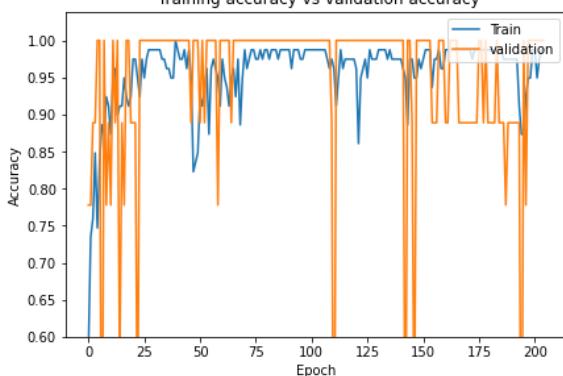
precision recall f1-score support

controls	0.83	0.71	0.77	7
nDNA_patients	0.50	0.67	0.57	3

accuracy		0.70	10	
macro avg	0.67	0.69	0.67	10
weighted avg	0.73	0.70	0.71	10



Model: ResNet50V2; Channel: Dystrophin; Data: nDNAPatients; Random Seed: 108 Model: ResNet50V2; Channel: Dystrophin; Data: nDNAPatients; Random Seed: 108

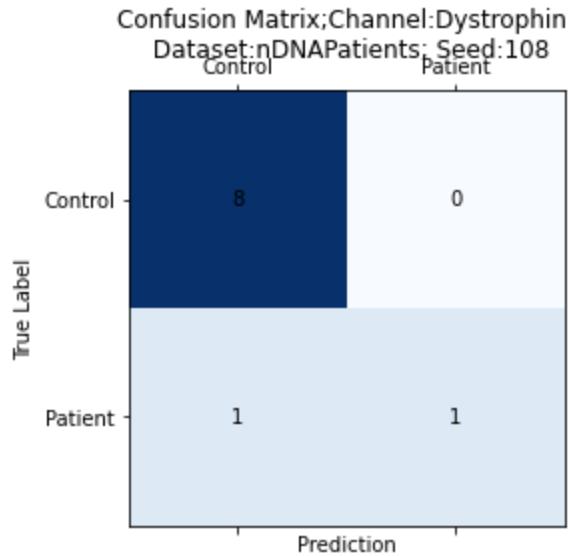


Test Loss: 0.16182

Test Accuracy: 90.00%

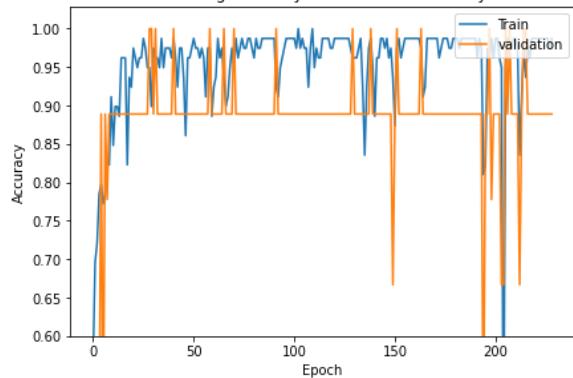
precision recall f1-score support

controls	0.89	1.00	0.94	8
nDNA_patients	1.00	0.50	0.67	2
accuracy		0.90	0.90	10
macro avg	0.94	0.75	0.80	10
weighted avg	0.91	0.90	0.89	10

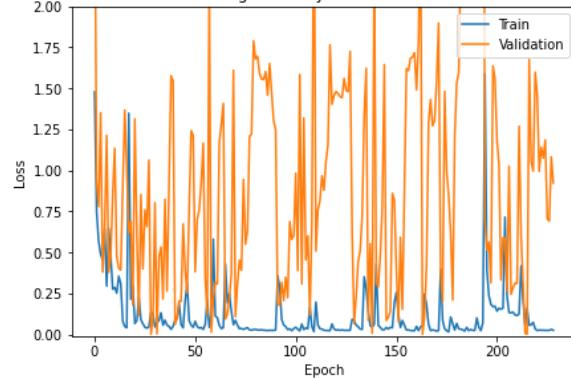


Model:ResNet50V2;Channel:Dystrophin;Data:nDNAPatients; Random Seed:99 Model:ResNet50V2;Channel:Dystrophin;Data:nDNAPatients; Random Seed:99

Training accuracy vs validation accuracy



Training accuracy vs validation loss



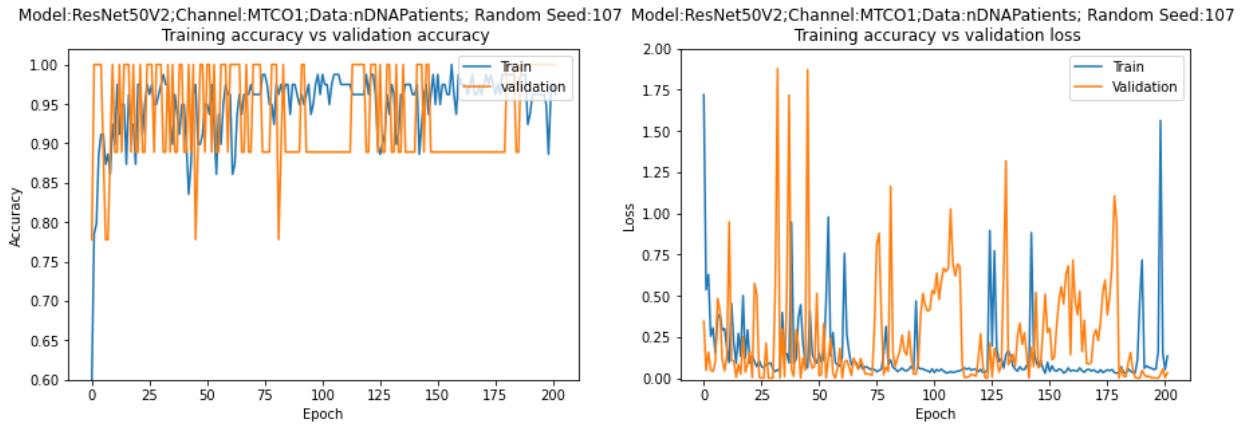
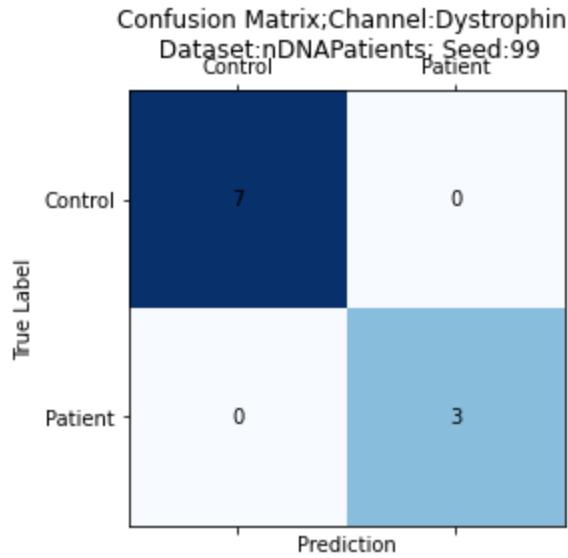
Test Loss: 0.10230

Test Accuracy: 100.00%

precision recall f1-score support

controls	1.00	1.00	1.00	7
nDNA_patients	1.00	1.00	1.00	3

accuracy		1.00	10	
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10

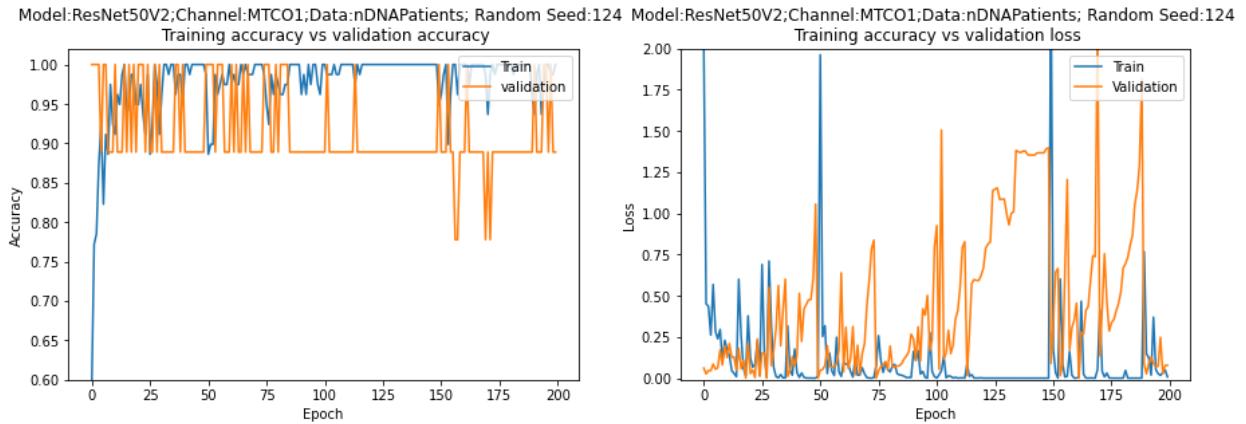
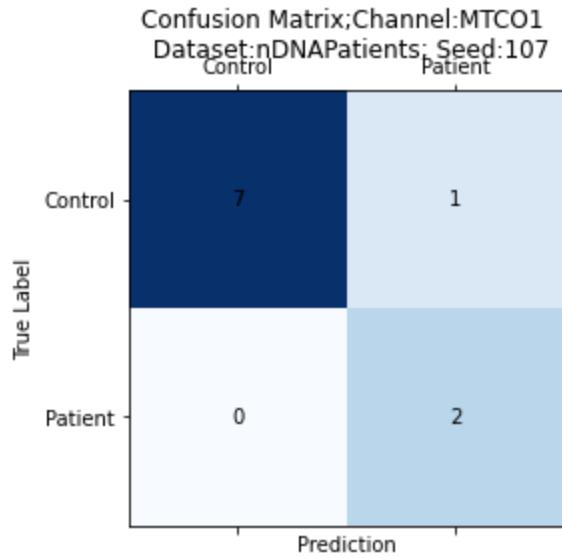


Test Loss: 0.08803

Test Accuracy: 90.00%

controls	1.00	0.88	0.93	8
nDNA_patients	0.67	1.00	0.80	2

accuracy		0.90	10	
macro avg	0.83	0.94	0.87	10
weighted avg	0.93	0.90	0.91	10

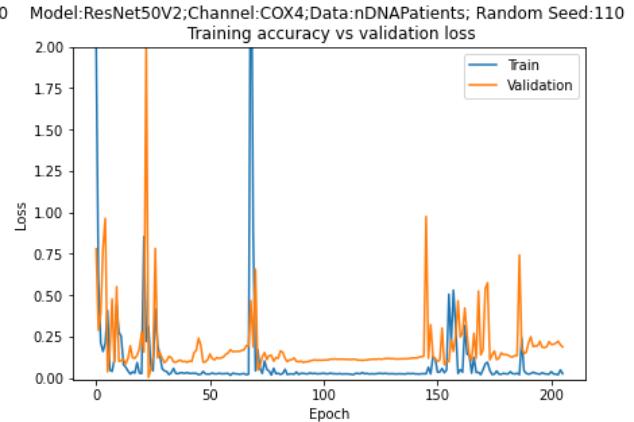
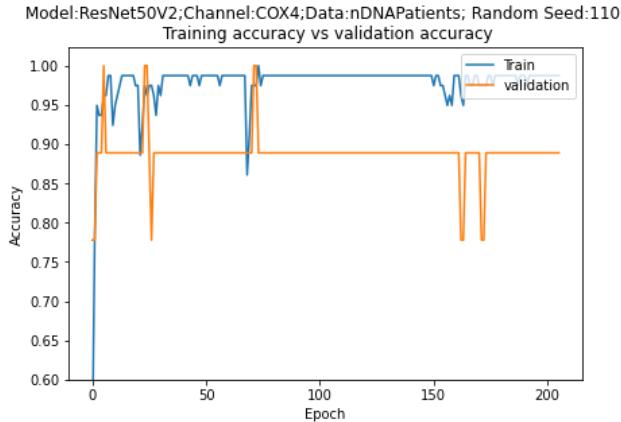
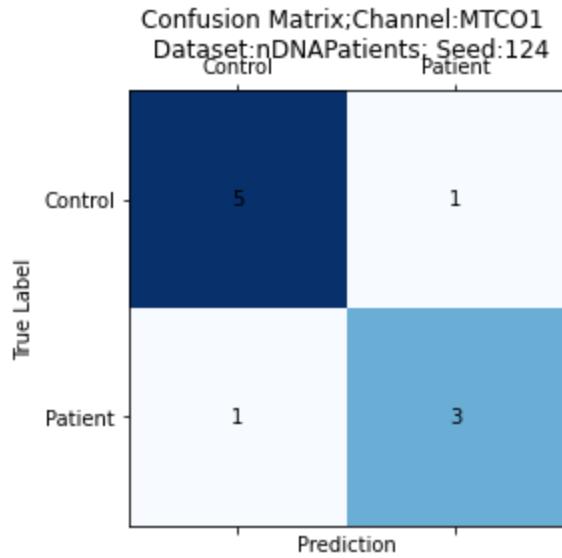


Test Loss: 0.20159

Test Accuracy: 80.00%

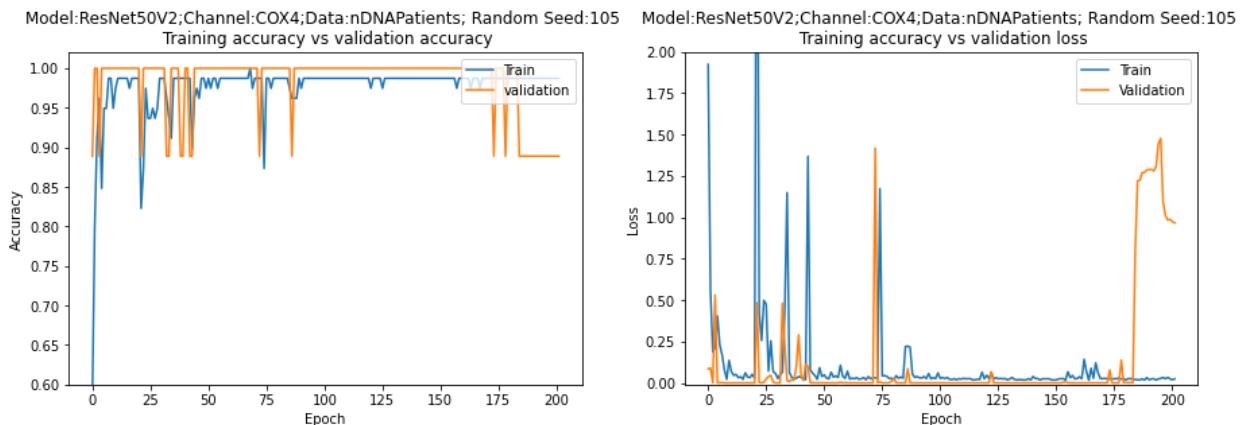
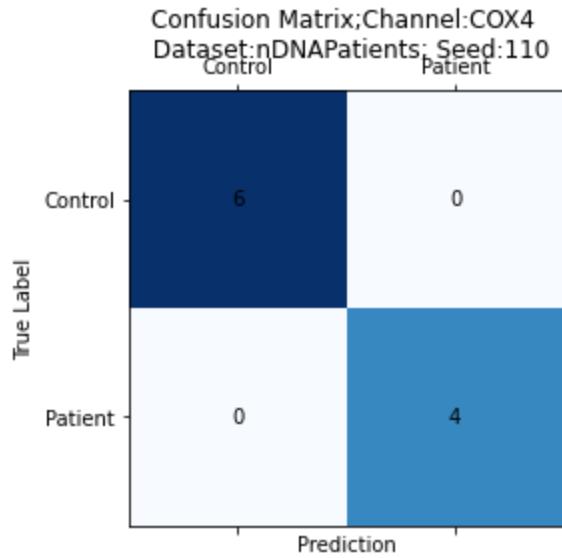
precision recall f1-score support

controls	0.83	0.83	0.83	6
nDNA_patients	0.75	0.75	0.75	4
accuracy		0.80	0.80	10
macro avg	0.79	0.79	0.79	10
weighted avg	0.80	0.80	0.80	10



Test Loss: 0.00282
Test Accuracy: 100.00%
precision recall f1-score support

	controls	1.00	1.00	1.00	6
nDNA_patients		1.00	1.00	1.00	4
accuracy			1.00	10	
macro avg		1.00	1.00	1.00	10
weighted avg		1.00	1.00	1.00	10



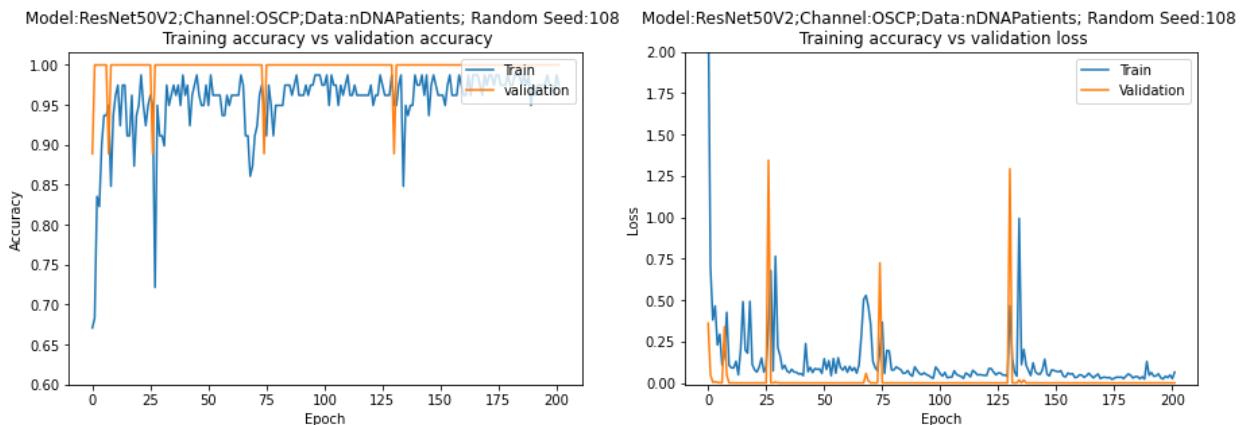
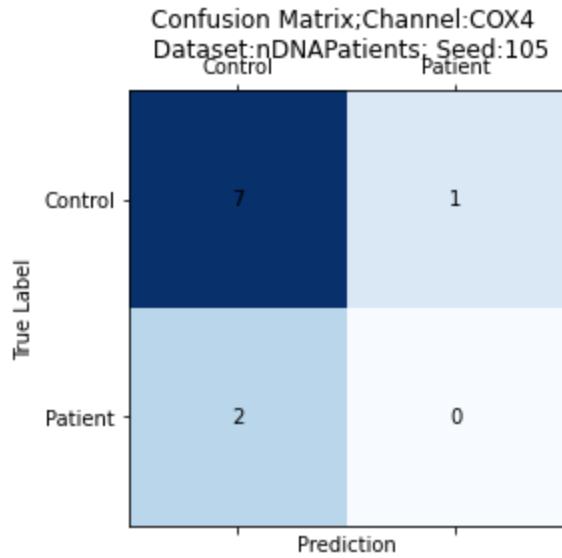
Test Loss: 0.95233

Test Accuracy: 70.00%

precision recall f1-score support

controls	0.78	0.88	0.82	8
nDNA_patients	0.00	0.00	0.00	2

accuracy		0.70	10	
macro avg	0.39	0.44	0.41	10
weighted avg	0.62	0.70	0.66	10



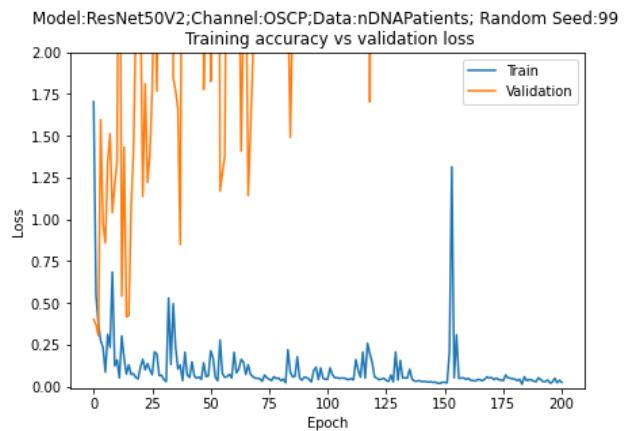
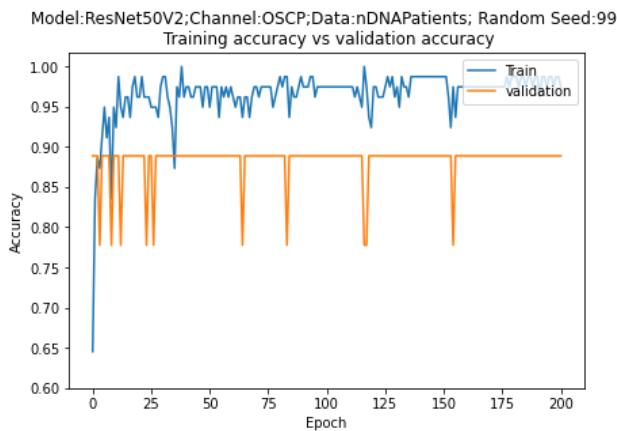
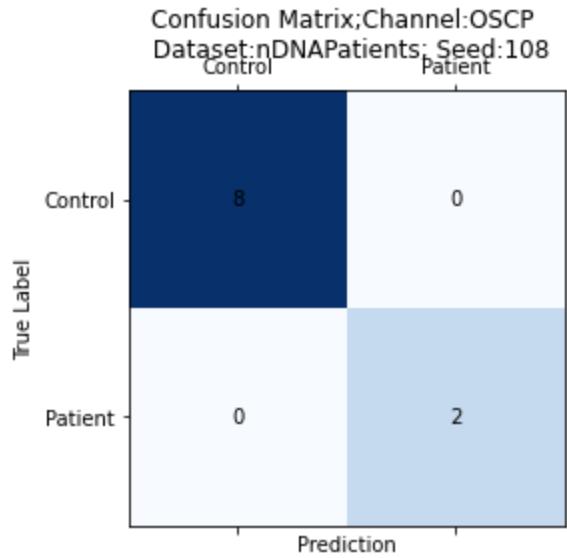
Test Loss: 0.06001

Test Accuracy: 100.00%

precision recall f1-score support

controls	1.00	1.00	1.00	8
nDNA_patients	1.00	1.00	1.00	2

accuracy		1.00	10	
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10



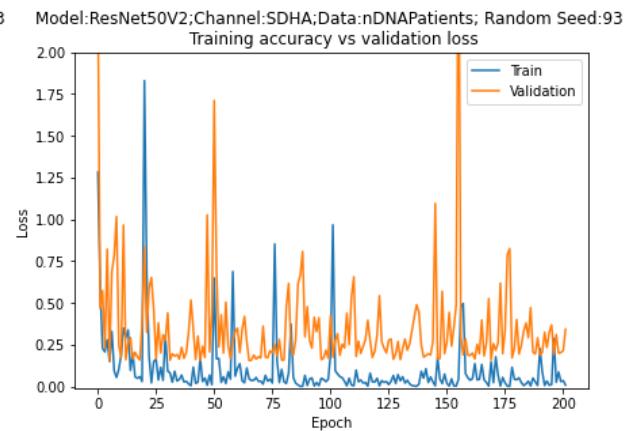
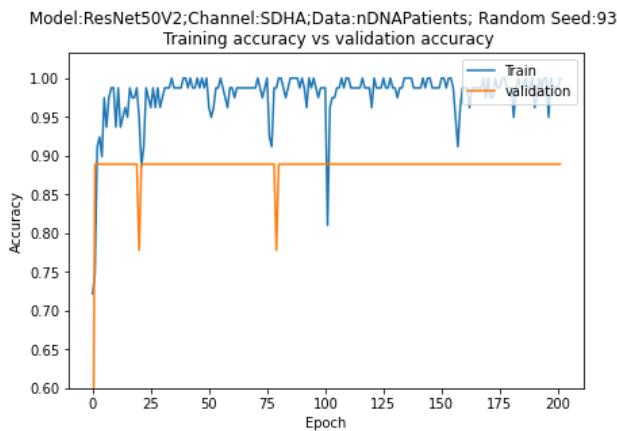
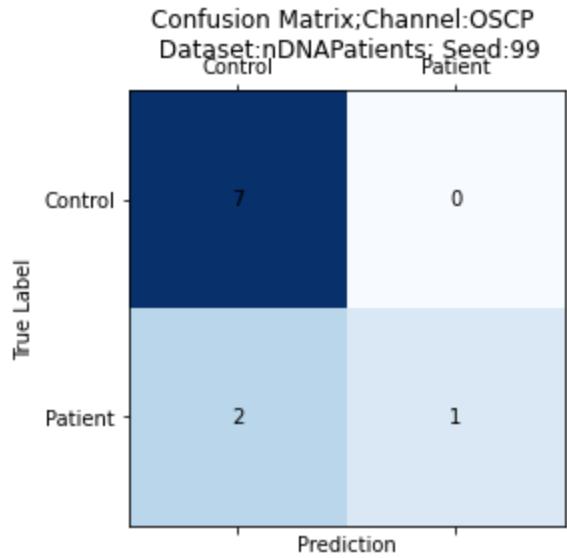
Test Loss: 0.83892

Test Accuracy: 80.00%

precision recall f1-score support

controls	0.78	1.00	0.88	7
nDNA_patients	1.00	0.33	0.50	3

	accuracy	0.80	10	
macro avg	0.89	0.67	0.69	10
weighted avg	0.84	0.80	0.76	10



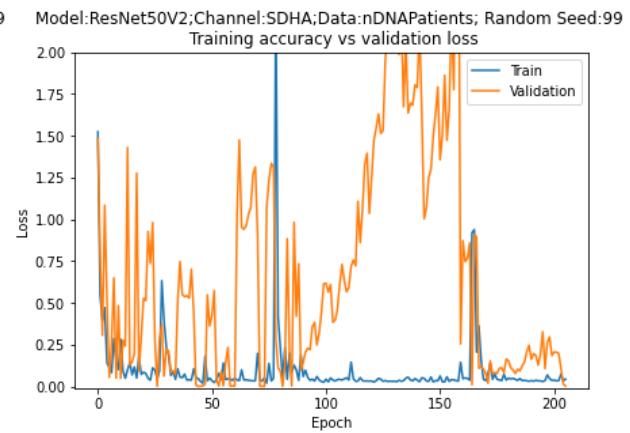
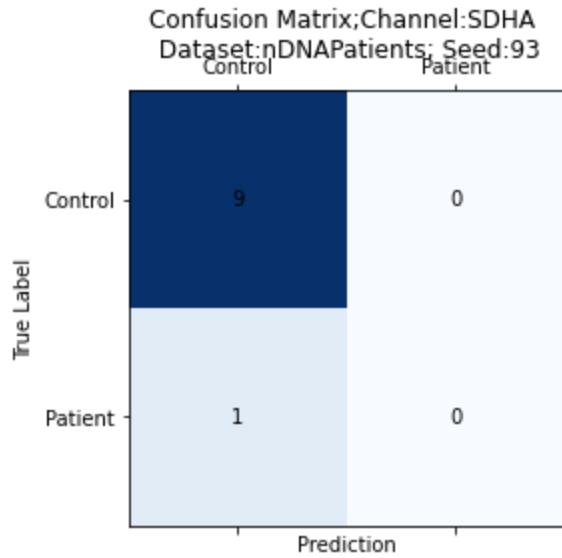
Test Loss: 0.25980

Test Accuracy: 90.00%

precision recall f1-score support

	controls	nDNA_patients		
precision	0.90	0.00	0.95	9
recall	1.00	0.00	0.95	9
f1-score	0.95	0.00	0.95	9
support	9	1	9	9

	accuracy			
macro avg	0.45	0.50	0.47	10
weighted avg	0.81	0.90	0.85	10



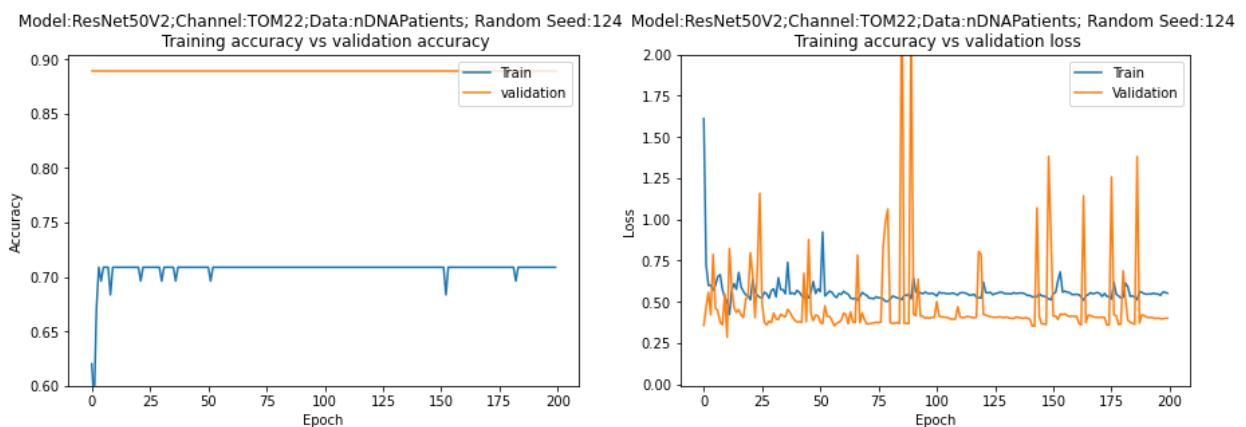
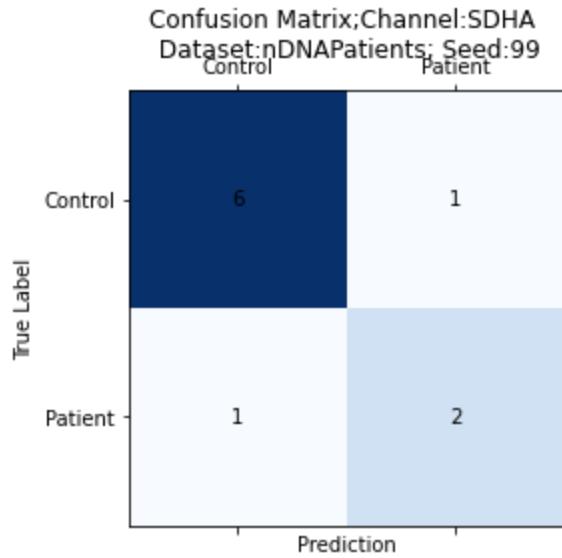
Test Loss: 0.80149

Test Accuracy: 80.00%

precision recall f1-score support

controls	0.86	0.86	0.86	7
nDNA_patients	0.67	0.67	0.67	3

accuracy		0.80	10	
macro avg	0.76	0.76	0.76	10
weighted avg	0.80	0.80	0.80	10



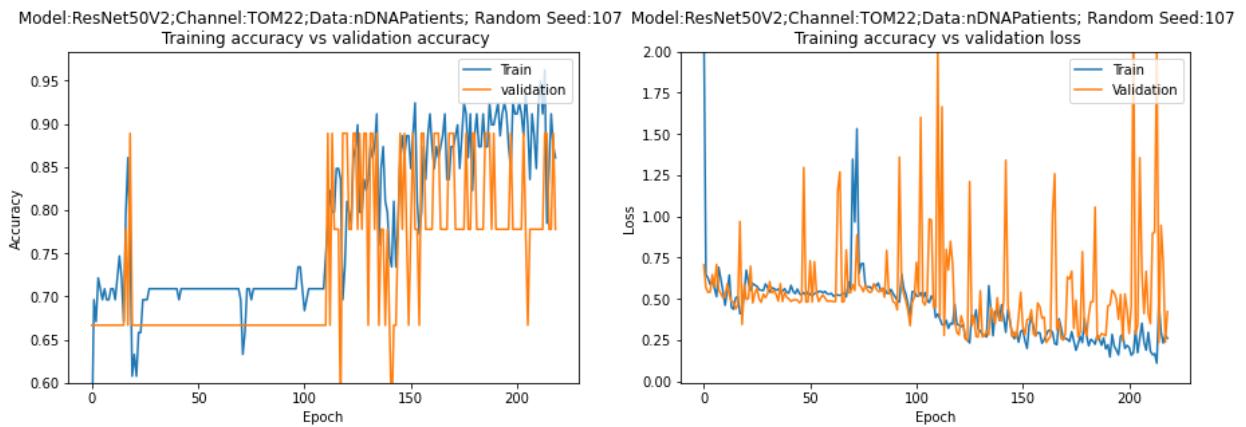
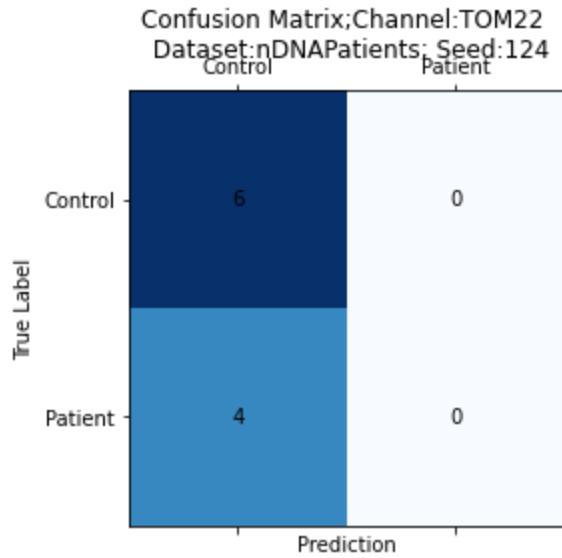
Test Loss: 0.59519

Test Accuracy: 60.00%

precision recall f1-score support

	controls	nDNA_patients		
precision	0.60	0.00	0.75	6
recall	0.60	0.00	0.60	4
f1-score	0.60	0.00	0.75	6
support	6	4	10	

	accuracy	macro avg	weighted avg	
precision	0.60	0.30	0.36	10
recall	0.60	0.50	0.60	10
f1-score	0.60	0.37	0.45	10
support	10	10	10	

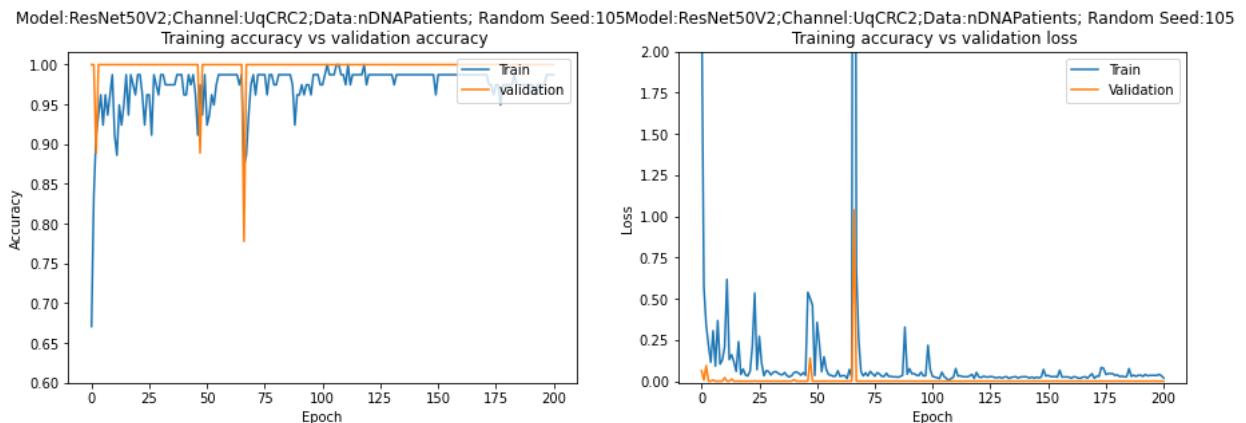
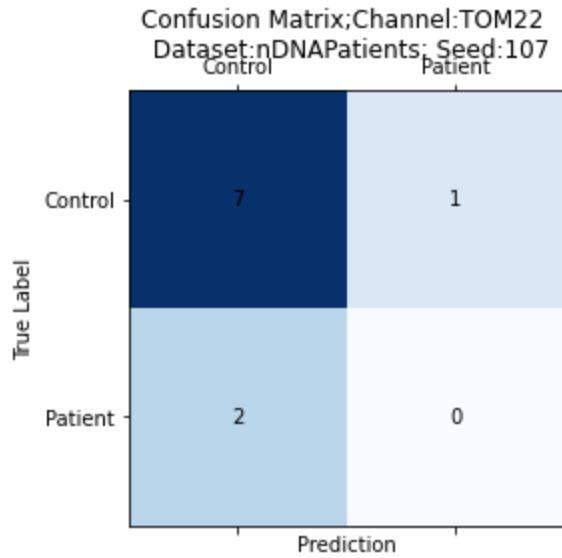


Test Loss: 0.40274

Test Accuracy: 70.00%

precision recall f1-score support

controls	0.78	0.88	0.82	8
nDNA_patients	0.00	0.00	0.00	2
accuracy			0.70	10
macro avg	0.39	0.44	0.41	10
weighted avg	0.62	0.70	0.66	10

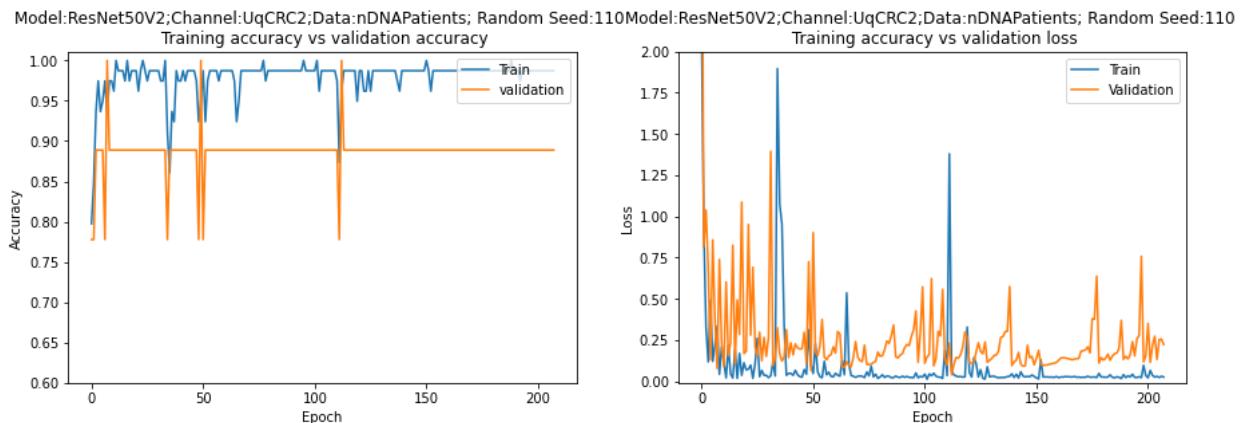
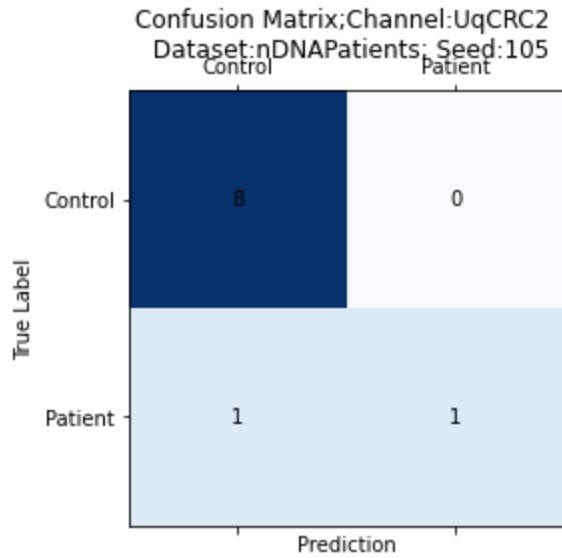


Test Loss: 0.18706

Test Accuracy: 90.00%

precision recall f1-score support

controls	0.89	1.00	0.94	8
nDNA_patients	1.00	0.50	0.67	2
accuracy		0.90	10	
macro avg	0.94	0.75	0.80	10
weighted avg	0.91	0.90	0.89	10



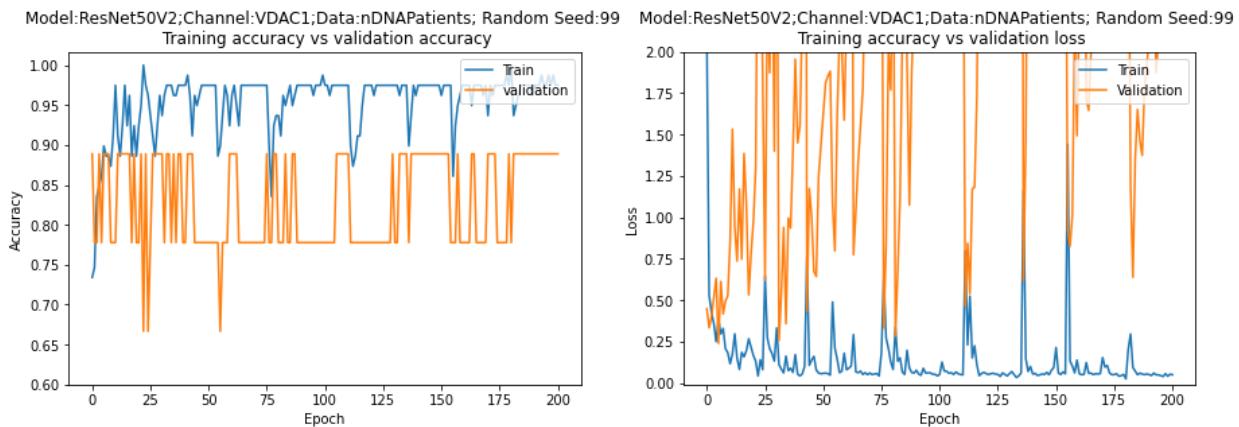
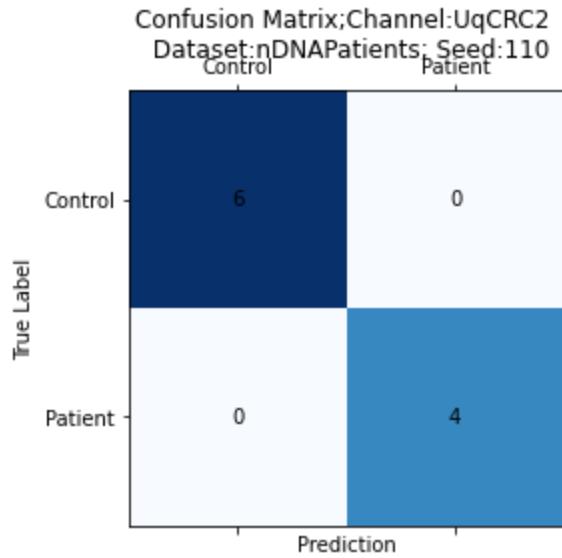
Test Loss: 0.05391

Test Accuracy: 100.00%

precision recall f1-score support

controls	1.00	1.00	1.00	6
nDNA_patients	1.00	1.00	1.00	4

accuracy		1.00	10	
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10



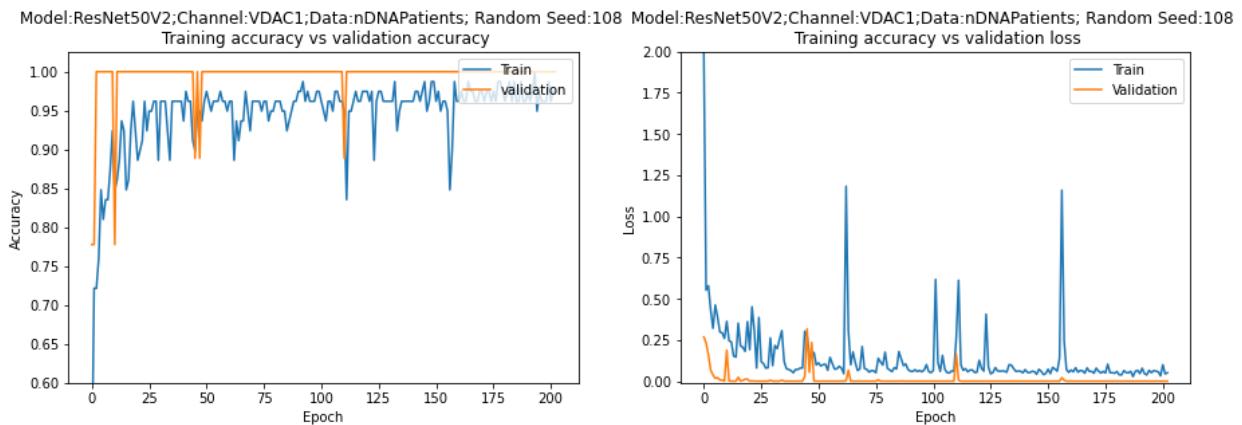
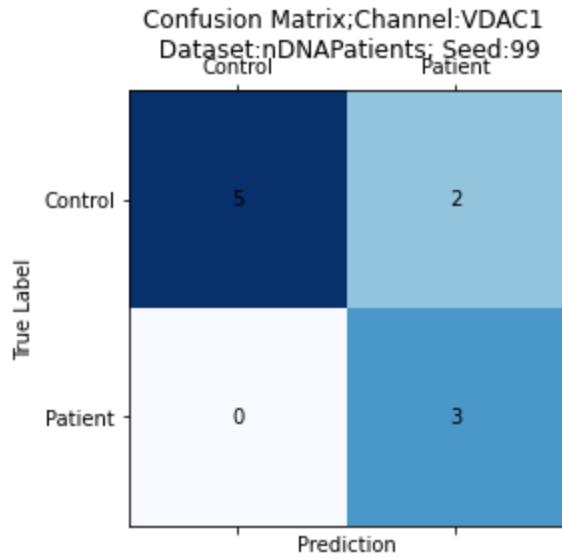
Test Loss: 0.69515

Test Accuracy: 80.00%

precision recall f1-score support

controls	1.00	0.71	0.83	7
nDNA_patients	0.60	1.00	0.75	3

accuracy		0.80	10	
macro avg	0.80	0.86	0.79	10
weighted avg	0.88	0.80	0.81	10

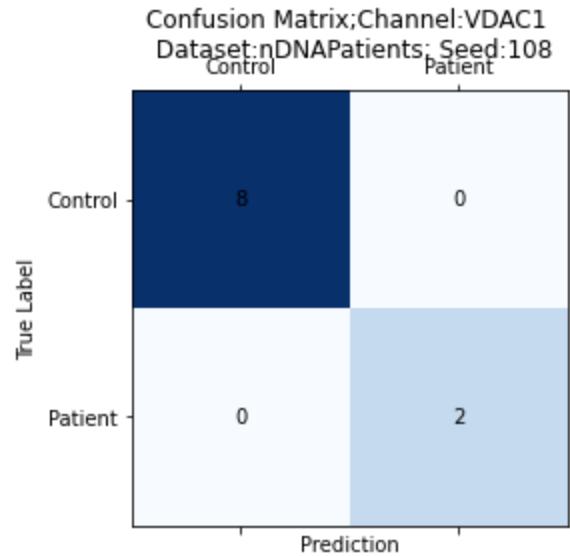


Test Loss: 0.11905

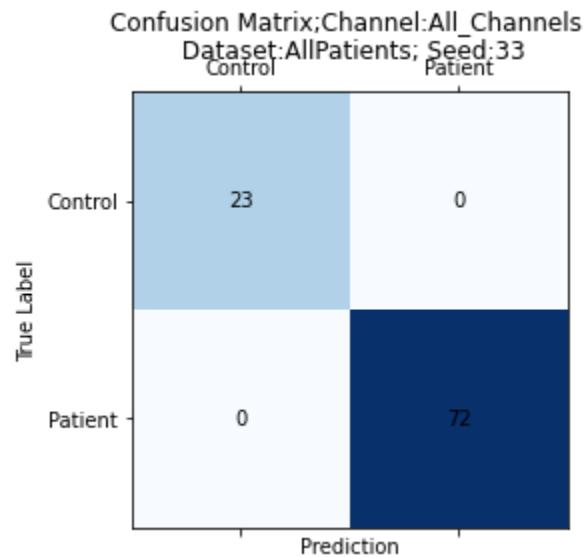
Test Accuracy: 100.00%

precision recall f1-score support

controls	1.00	1.00	1.00	8
nDNA_patients	1.00	1.00	1.00	2
accuracy		1.00	1.00	10
macro avg	1.00	1.00	1.00	10
weighted avg	1.00	1.00	1.00	10



MULTI_CHANNEL



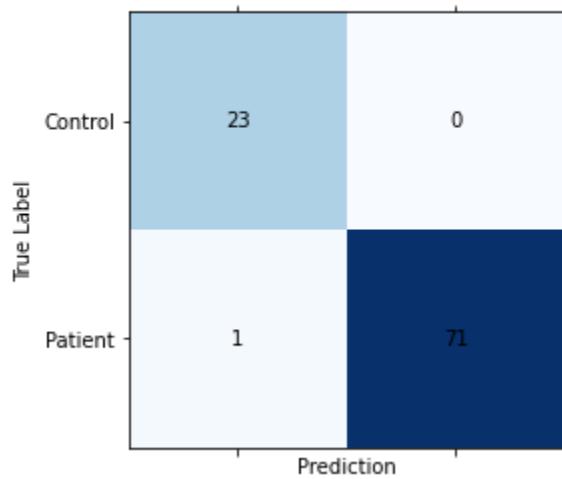
Test loss: 0.005561772268265486 / Test accuracy: 1.0

precision recall f1-score support

0	1.00	1.00	1.00	23
1	1.00	1.00	1.00	72

accuracy		1.00	95	
macro avg	1.00	1.00	1.00	95
weighted avg	1.00	1.00	1.00	95

Confusion Matrix; Channel: All_Channels
Dataset: AllPatients; Seed: 47
Control Patient



Test loss: 0.018590010702610016 / Test accuracy: 0.9894737005233765

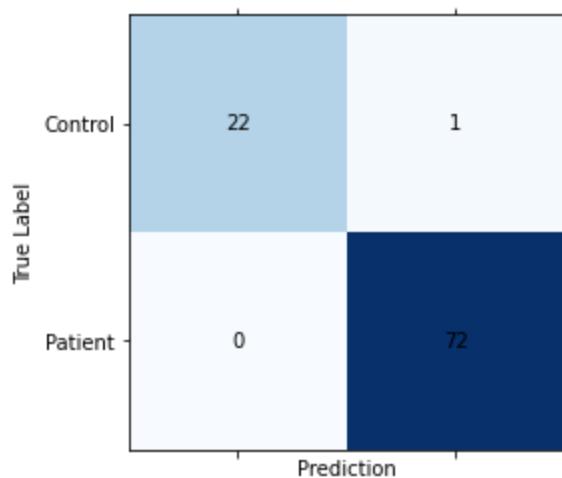
3/3 [=====] - 5s 1s/step

precision recall f1-score support

0	0.96	1.00	0.98	23
1	1.00	0.99	0.99	72

accuracy		0.99	95	
macro avg	0.98	0.99	0.99	95
weighted avg	0.99	0.99	0.99	95

Confusion Matrix;Channel>All_Channels
Dataset>AllPatients; Seed:56



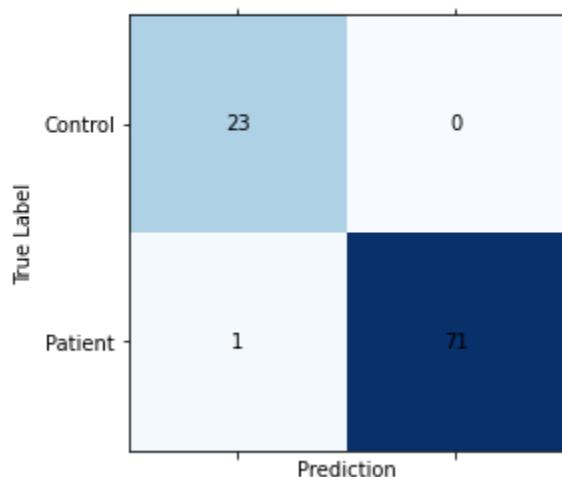
Test loss: 0.030935294926166534 / Test accuracy: 0.9894737005233765

precision recall f1-score support

0	1.00	0.96	0.98	23
1	0.99	1.00	0.99	72

accuracy		0.99	95	
macro avg	0.99	0.98	0.99	95
weighted avg	0.99	0.99	0.99	95

Confusion Matrix;Channel>All_Channels
Dataset>AllPatients; Seed:83

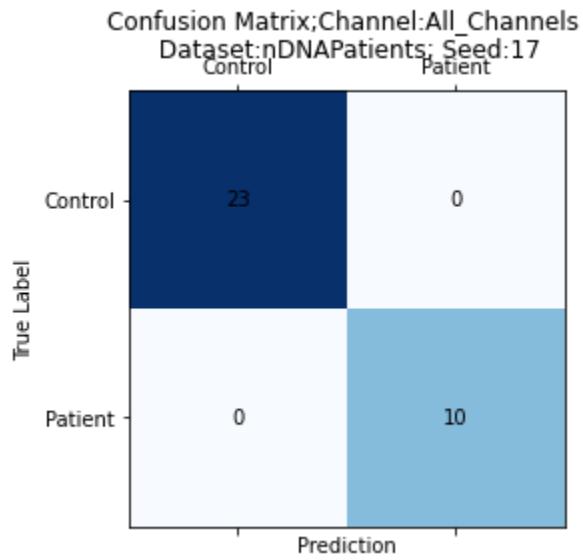


Test loss: 1.9589052200317383 / Test accuracy: 0.9894737005233765

precision recall f1-score support

0	0.96	1.00	0.98	23
1	1.00	0.99	0.99	72

accuracy		0.99	95	
macro avg	0.98	0.99	0.99	95
weighted avg	0.99	0.99	0.99	95

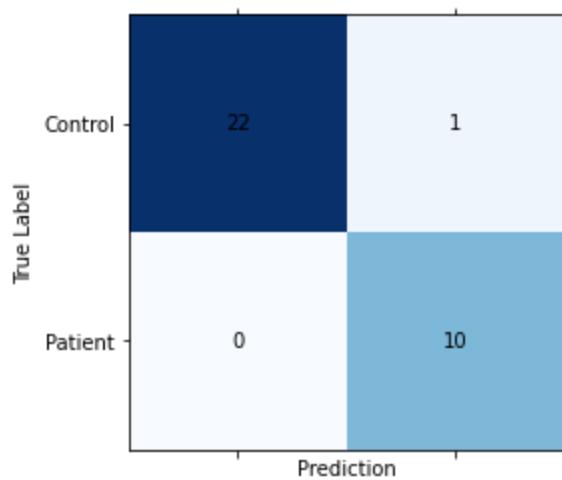


Test loss: 0.0 / Test accuracy: 1.0
precision recall f1-score support

0	1.00	1.00	1.00	23
1	1.00	1.00	1.00	10

accuracy		1.00	33	
macro avg	1.00	1.00	1.00	33
weighted avg	1.00	1.00	1.00	33

Confusion Matrix;Channel>All_Channels
Dataset:nDNAPatients; Seed:26



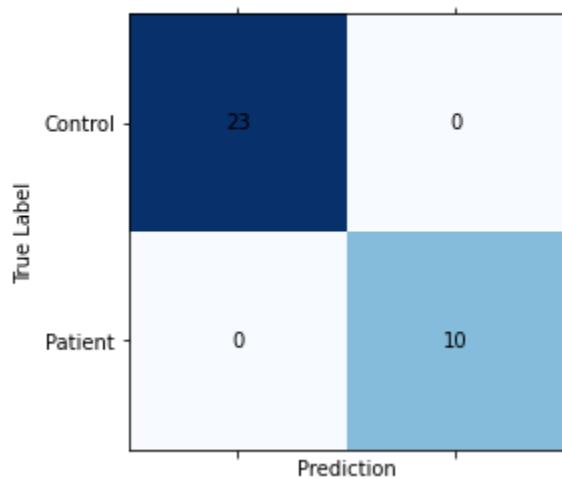
Test loss: 0.33953145146369934 / Test accuracy: 0.9696969985961914

precision recall f1-score support

0	1.00	0.96	0.98	23
1	0.91	1.00	0.95	10

accuracy		0.97		33
macro avg	0.95	0.98	0.97	33
weighted avg	0.97	0.97	0.97	33

Confusion Matrix;Channel>All_Channels
Dataset:nDNAPatients; Seed:75

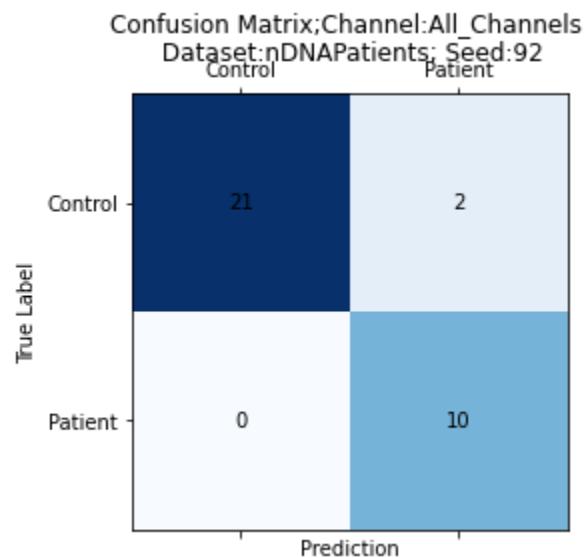


Test loss: 1.7786887838155963e-06 / Test accuracy: 1.0

precision recall f1-score support

0	1.00	1.00	1.00	23
1	1.00	1.00	1.00	10

accuracy		1.00	33	
macro avg	1.00	1.00	1.00	33
weighted avg	1.00	1.00	1.00	33



Test loss: 2.749016523361206 / Test accuracy: 0.939393937587738

precision recall f1-score support

0	1.00	0.91	0.95	23
1	0.83	1.00	0.91	10

accuracy		0.94	33	
macro avg	0.92	0.96	0.93	33
weighted avg	0.95	0.94	0.94	33

