Appendix IV

All Study ID's are referring to Appendix III

Dataset	Source	Type of Data	Size (No. of Samples used for Experiment)	Classes	Studies that reported the use
Public Dataset	lizard dataset from the CoNIC Challenge	Histopathology Images	4981	(1) neutrophil, (2) epithelial, (3) lymphocyte, (4) plasma, (5) eosinophil, (6) connective tissue	[28] [29]
	Kather, J. N. et al. Multi-class texture analysis in colorectal cancer histology. Sci. Rep. 6, 27988;	Histopathology Images	5000	(1) Debris, (2) Lymphocyte, (3) Mucus, (4) Muscle, (5) Normal, (6) Stroma, (7) Tumor	[39]
				(1)ADIPOSE, (2)DEBRIS, (3) STROMA, (4)EMPTY, (5) MUCOSA, (6)TUMOR, (7) LYMPHO, (8) COMPLEX	[10]
				(1) Tumor, (2)Stroma, (3) Complex, (4) Lympho, (5) Debris, (6)Mucosa, (7)Adipose, (8) Empty	[42]
				(1) Tumour, (2) Stroma, (3) Complex, (4)Lympho, (5) Debris, (6) Mucosa, (7)Adipose, (8)Empty	[12]
				(1) Tumor, (2) Stroma, (3) Complex, (4) Lympho, (5) Debris, (6) Mucosa, (7) Adipose, (8) Empty	[31]
	TCGA colorectal cancer cohort	Histopathology Images	700	(1) MSI, (2) MSS	[41]
	Cancer Genome Atlas (TCGA)	Histopathology Images	N/A	(1) high risk (2) low risk [4]	[33]
				(1) Strong relevance, (2) Significant, (3) moderate, (4) weak [13]	[1]
			1036	(1) Loose non-tumor, (2) Dense non-tumor tissue, (3) Gastrointestinal Cancer (1) Metastatic, (2) Non- metastatic	[6]
		Text files	300	(1) Metastatic, (2) Non- metastatic	[44]
	Kvasir V2	Endoscopy Images	4000	(1) Left Cable, (2) Right Cable, (3) Foreceps Head, (4) Snare Head, (5) Non-instrument	[16]
	HyperKvasir dataset	Endoscopy Images	16470	(1) anatomical landmark, (2) pathological finding	[15]
	TCGA-COAD database	Histopathology Images + Text files	879	(1) Tumor, (2) Normal + 7 gene mutations can be identified: (1) CHD4, (2) MTOR, (3) MYH9, (4) NIN, (5) PIK3CA, (6) TP53, (7) ROS1	[2]
	Li Kaidong, Mohammad I. Fathan, Krushi Patel, Tianxiao Zhang, Cuncong Zhong, Ajay Bansal, et al., "Colonoscopy Polyp Detection and Classification: Dataset Creation and Comparative Evaluations", arXiv preprint	Endoscopy Images	4, 719	(1) Hyperplastic, (2) Adenomatous	[37]
	arXiv:2104.10824, 2021.		28773	(1) adenoma, (2) hyperplastic	[30]

tο	Source	Type of	Size (No. of	Classes	ID of
				grade), (4) Tubular Adenoma(Low-grade), (5) Tubulo-Villous Adenoma(High- Grade dysplasia), (6) Tubulo- Villous Adenoma(Low-grade)	
	UniTOPatho	Histopathology Images	292	(1) Normal ,(2) Hyperplastic, (3) Tubular Adenoma(high-	[38]
	Mayo Polyp Dataset	Endoscopy Images	95	(1) Adenoma, (2) Hyperplastic, (3) Serrated	[19]
	A. A. Borkowski, M. M. Bui, L. B. Thomas, C. P. Wilson, L. A. DeLand, and S. M. Mastorides, "Lung and colon cancer histopathological image dataset (lc25000)	Histopathology Images	10000	(1) benign, (2) adenocarcinoma	[36]
	CRCHistoPhenotypes	Histopathology Images	100	(1) Epithelial, (2) Fibroblast, (3) Inflammatory, (4) Miscellaneous	[13]
	Darthmouth-Hitchcock Medical Center	Histopathology Images	176	(1) Hyperplastic polyp, (2) Sessile Serated Polpy ,(3) Traditional Serated Adenoma ,(4) Tubular adenoma ,(5) Tubulovillous	[18]
	National Cancer Center of Heidelberg	Histopathology Images	9200	(1) Normal Colonic Mucosa, (2) Colorectal Adenocarcinoma Mucosa	[5]
	Warwick-QU Dataset	Histopathology Images	4602	(1) malignant, (2) benign	[4]
			47	(1) malignant, (2) benign	[7]
	Computer-Aided Classification of Gastrointestinal Lesions in Regular Colonoscopy :http://www.depeca.uah.es/colonoscopy_dataset/	Endoscopy images	440	(1) Adenoma, (2) Hyperplastic, (3) Serrated	[11]

Private Dataset	Source	Type of Data	Size (No. of Samples	Classes	ID of Studies
			used for		that
			Experiment)		reported
					the use
	Chiba University of School of Medicine	Endoscopy Images	190	(1) Protruding, (2) flat, (3) recessed	[25]
	The Department of Pathology and Laboratory Medicine at One Medical Center Drive, HB 7261, Lebanon	Histopathology Images	697	(1)hyperplastic, (2) sessile serrated, (3) traditional serrated, (4) tubular, (5) tubulovillous/villous	[43]
	Gangnam-Real-Time Optical Diagnosis (READI) program / Seoul National University Hospital, Healthcare System Gangnam Center (training set)	Endoscopy Images	2450	(1) adenomatous, (2) hyperplastic	[21]
	Singapore General Hospital's pathology archives	Histopathology Images	(check later)	(1) high risk (contains sign of adenocarcinoma or dysplasia) , (2) low risk (contains normal histology/inflammation/reactive changes without signs of adenocarcinoma or dysplasia)	[33]
	Department of Pathology, Sahloul University Hospital, Sousse (Tunisia).	Histopathology Images	391	(1) MSI, (2) MSS	[40]
	The Netherlands Cancer Institute, Antoni van Leeuwenhoek (Amsterdam, the Netherlands).	Hyperspectral imaging	145	(1) malignant, (2) benign	[34]
	EMIS-I dataset	Endoscopy Images	14000	(1) Left Cable, (2) Right Cable, (3) Foreceps Head, (4) Snare Head, (5) Non-instrument	[16]
	database generated from the contribution of Urduliz and Biodonostia Hospitals	Endoscopy Images	785	(1) Not Dangerous [IP, IS, IIa, IIb], (2) Dangerous [IIc, when associated with Ip, Is, IIa or IIb], (3) Cancer [III] (all according to Paris Classification)	[35]
	Department of Gastroenterology at the Hospital of Zhengzhou University, Henan Province from July 2017 to August 2018.	Endoscopy Images	2082	(1) Polyp, (2) Adenoma	[3]
	Sardjto Public Hospital Yogyakarta-Indonesia	Endoscopy Images	314	(1) Minimal, (2) Moderate, (3) Progressive	[32]
	Department for Internal Medicine (St. Elisabeth Hospital, Vienna).	Endoscopy images	800	(1) Healthy, (2) Abnormal	[45]
	custom dataset from Ming Chi University of Technology (mentioned from a hospital)	Endoscopy images	2449	(1) adenoma, (2) hyperplastic	[30]
	Aichi medical university hospital, Japan under the supervision of Dr. Kunio Kas	Endoscopy Images	4304	(1) Adenoma, (2) Hyperplastic, (3) Serrated	[11]
	Custom dataset (University of New York)	Colonography or Virtual colonoscopy images	63	(1) malignant, (2) benign	[17]

Korea University Medical Center (KUMC), Seoul, Korea	Endoscopy Images + Histology report	3000	(1) normal, (2) tubular adenoma with low-grade dysplasia (TALGD), (3) tubular adenoma with high-grade dysplasia (TAHGD), (4) adenocarcinoma	[22]
Research Institute for Nanodevices, Hiroshima University	Endoscopy Images	6161	(1) Type 1, (2) Type 2, (3) Type 3; NICE classification	[26]
Department of Computer Science and Engineering Sejong University Seoul, Korea	Histopathology Images	2854	(1) Well Differentiated, (2)Moderately differentiated (3) poorly differentiated	[23]
Graduate School of Electronic and Electrical Engineering, Kyungpook National University, Daegu 41566, South Korea	Histopathology Images	7746	(1) MSI-H , (2) non-MSI-H	[24]
JR Hiroshima Hospital and Hiroshima University Hospital	Endoscopy images	4056	(1) Type 1, (2) Type 2, (3) Type 3; NICE classification	[27]
An Efficient Method of Histological Cell Image Detection Based on Spatial Information Convolution Neural Network - Proceedings of the 3rd International Conference on Video and Image Processing Custom dataset	Histopathology Images	20000	(1) Epithelial (2) Inflammatory (3) Fibroblasts, (4) Heteronuclear	[8]