How to join pair-ends of multiple fastq when you have renamed R1 and R2 of individual samples already with the barcodes trimmed...

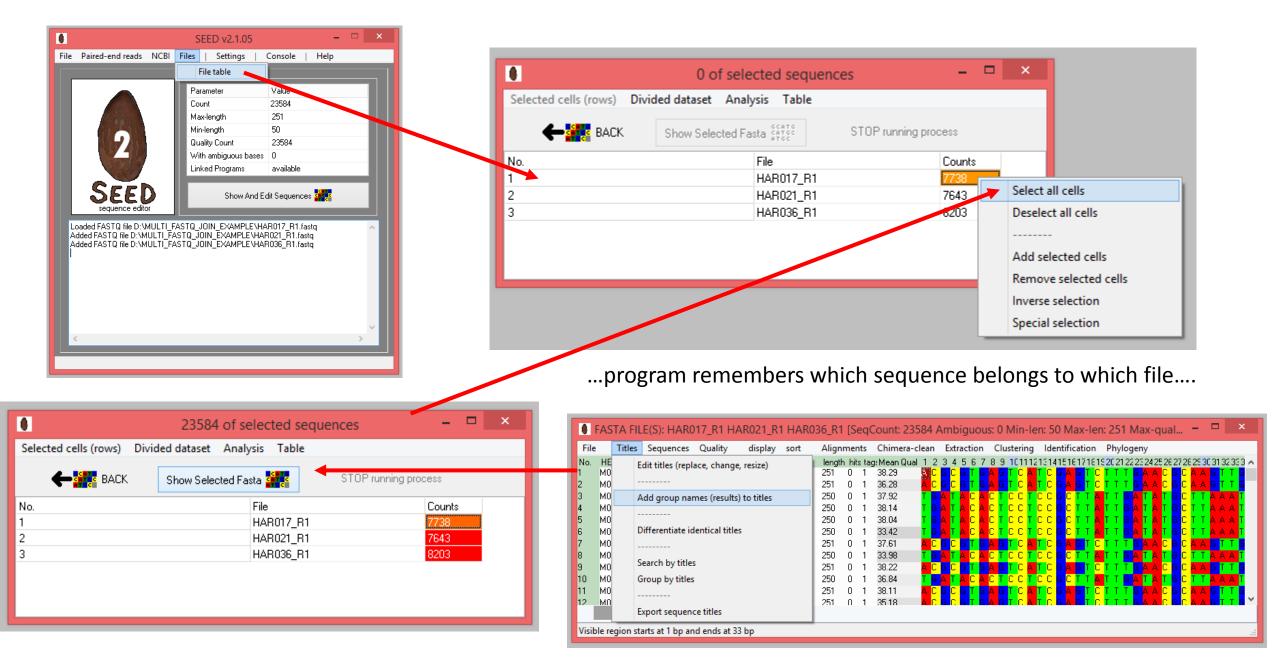
Imagine those input files:

🖪 I 💽 🖪 📼	MUL	.TI_FASTQ_JOIN_E>	KAMPLE		×
Soubor Dom	ů Sdílení Zobrazení				^ ?
Navigační podokno <del>v</del> Podokna	Největší ikony  Velké iko Seznam Seznam Seznam Seznaf	ny v Aktuální	Zobrazit či skrýt •		
	NULTI_FAS	TQ_JOIN_EXAMPLE	v Ċ Proh	ledat: MULTI_FASTQ_JOI	٩
Název	*	Datum změny	Тур	Velikost	
HAR017_R1	1.fastq	13. 2. 2019 16:26	Soubor FASTQ	4 242 kB	
HAR017_R2	2.fastq	13. 2. 2019 16:56	Soubor FASTQ	4 242 kB	
HAR021_R1	1.fastq	13. 2. 2019 16:27	Soubor FASTQ	4 185 kB	
HAR021_R2	2.fastq	13. 2. 2019 16:57	Soubor FASTQ	4 185 kB	
HAR036_R1	1.fastq	13. 2. 2019 16:26	Soubor FASTQ	4 491 kB	
HAR036_R2	2.fastq	13. 2. 2019 16:58	Soubor FASTQ	4 492 kB	
Počet položek:	б				

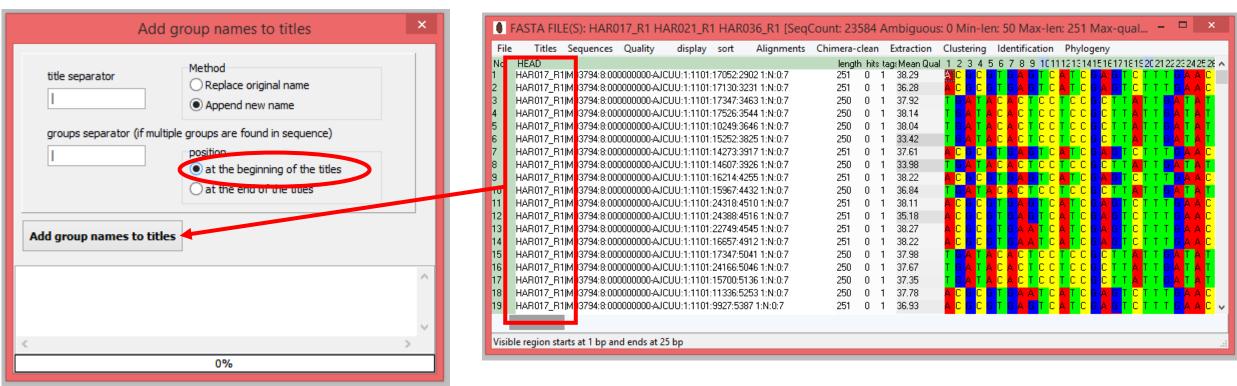
Step 1 – open multiple R1 files from folder... select them by Ctrl or copy them to separate folder (Ctrl+A)

Paired-end reads NCBI	SEED v2.1.05	- C ×	0		Open FASTQ file							
Open FASTA file(s)	General info											
Add FASTA file	General into Parameter Value Uspořádat ▼ Nová složka											
Open FASTQ file(s)	Max-length 0 Min-length 0		6 OneDrive	Název	Datum změny	Тур	Velikost					
Add FASTQ file	Quality Count 0		Dokumenty	HAR017_R1.fastq	13. 2. 2019 16:26	Soubor FASTQ	4 242 kB					
Open TEXT file(s)	With ambiguous bases none Linked Programs available		💐 Domáci skupine	HAR017_R2.fastq	13. 2. 2019 16:56	Soubor FASTQ	4 242 kB					
Add TEXT file	Linkeu Programs available			HAR021_R1.fastq	13. 2. 2019 16:27	Soubor FASTQ	4 185 kB					
	Show And Edit Sequen	Ces cate Catec Atec	🖳 Tento počítač	HAR021_R2.fastq	13. 2. 2019 16:57	Soubor FASTQ	4 185 kB					
EXIT			📗 Dokumenty	HAR036_R1.fastq	13. 2. 2019 16:26	Soubor FASTQ	4 491 kB					
		^	🔰 Hudba	HAR036_R2.fastq	13. 2. 2019 16:58	Soubor FASTQ	4 492 kB					
			🎍 lab_141 (10.150.1									
			╞ Obrázky									
			📔 Plocha 🗸 🗸									
			Náz	ev souboru: "HAR036_R1.fastq" "HAR	017_R1.fastq" "HAR021_R1.fastq"			Ý				
/		~					Otevřít	Storno				
		· ·										

Step 2 – Put sample names (file names) at the beginning of the sequence titles....



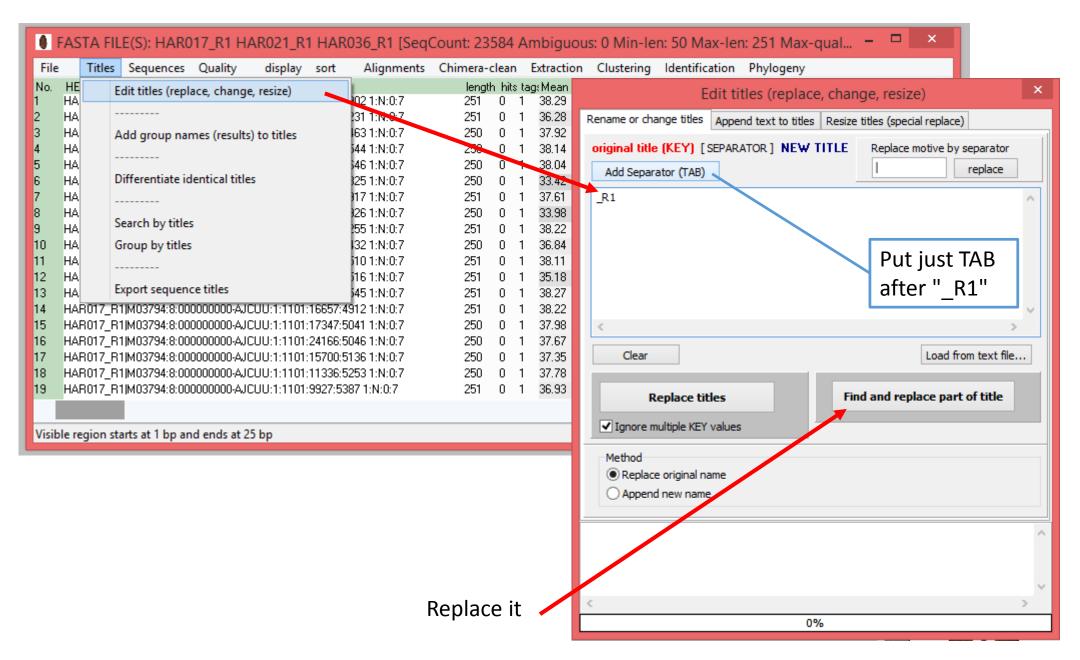
...put sample name (file name without extension) at the beginning of the titles...



#### e.g.:

HAR017\_R1|M03794:8:00000000-AJCUU:1:1101:14607:3926 1:N:0:7

# Step 3 – Remove "\_R1" from the titles to make the titles before space (and "1:N:0:7") identical

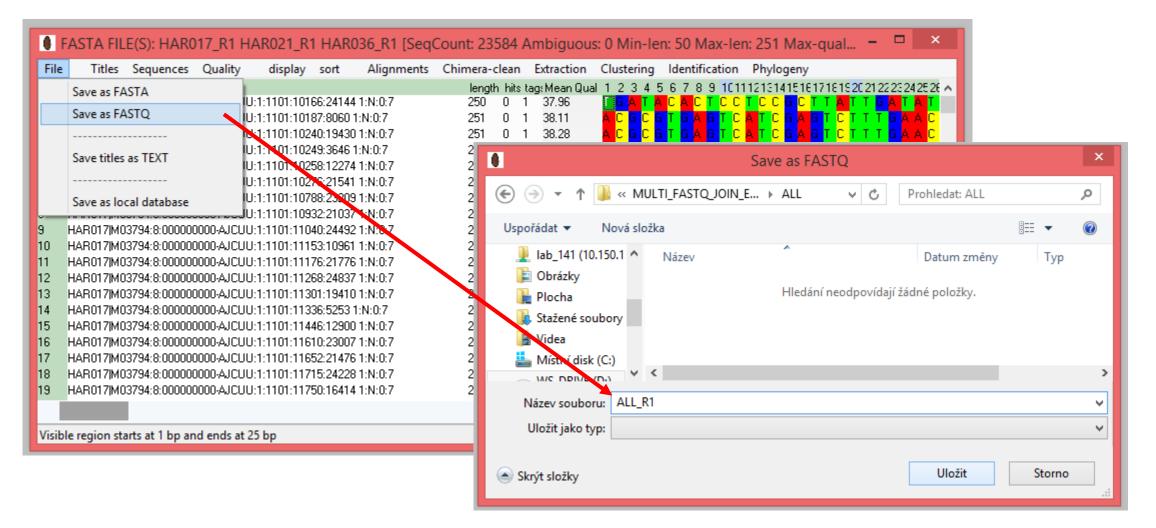


# Step 4 – Sort the sequences by title (there must be the same sequence order for joining)

File	Titles	Sequences	Quality	display	sort	Alignments	Chimera	-clea	n E	Extraction	Cluste	ering	lde	ntifica	tion	Phylo	geny				
No.	HEAD	3794:8:000000		1,1101,170		Length	•	th hit	s tag ⊣	): Mean Qua	112	34	56	789	1011	121314	15161	71819	20 21 22	23242	25 26 🔨
2		3794:8:000000 3794:8:000000				Title	•		asce	ending			а і і 3 Т (	a A G	тс	ТС	GAG	тс	гтт	GAA	
3		3794:8:000000				Hits	•		dec	ending		Υ <mark>Τ</mark>	N C /			C C	G <mark>C T</mark>		ГТ <mark>G</mark>	A T A	Т
4		3794:8:000000				Mean quality	• • 1	, v		JU. 14		N T A	C /				G <mark>C T</mark>	T A I	ГТ <mark>G</mark>	A T A	T
5 6		3794:8:000000 3794:8:000000				Ambiguous seq.			1	38.04 33.42	TGA	ļ						TA	TG		Ţ
7		3794:8:000000 3794:8:000000					ŗ	0	1	33.42 37.61			T I	G A G	тс		G <mark>C T</mark> G <mark>A </mark> G	ТС	TT		
8		3794:8:000000				Sequence		Ő	1	33.98	TG	A T	C A	СТ	СС	СĊ		TA	ГТ <mark>G</mark>	A T A	Т
9	HAR017 M0	3794:8:000000	0000-AJCUU:	1:1101:1621	4:425	5 1:N:0:7	251	0	1	38.22	A C C	G C (	i T (	a <mark>Al</mark> G	ТС	T C	G <mark>A </mark> G	T <mark>C</mark> I	ГТТ	<mark>g </mark> a a	C
10		3794:8:000000					250	0	1	36.84	T G A	A T A	N <mark>C /</mark>	N <mark>C T</mark>	СС	гсс	g <mark>c t</mark>	T A T	Г Т <mark>G</mark>	A T A	T
11		3794:8:000000					251	0	1	38.11			i T (	a A G	TC		GAG	ТС		G A A	C
12 13		3794:8:00000( 3794:8:00000(					251 251	0	1	35.18 38.27			а I I 3 Т I	2 A U 2 A A	тс		G A G G A G	гс тс	гтт Гтт	GAA	
14		3794:8:000000					251	Ő	1	38.22				AA	_			тст	гтт	G A A	c
15		3794:8:000000					250	0	1	37.98	T G A	A T A	N C A	CT	СС	гсс	G <mark>C T</mark>	T A I	Г Т <mark>G</mark>	A T A	Т
16		3794:8:000000					250	0	1	37.67	TG <mark>/</mark>	A T A	A <mark>C </mark> 4			r <mark>c c</mark>		TAI	ГТ <mark>G</mark>	A T A	T
17		3794:8:000000					250	0	1	37.35	TGA	A T A	C /						I T <mark>G</mark>	A T A	Ţ
18 19		3794:8:00000( 3794:8:00000(					250 251	0	1	37.78 36.93			а I I 3 Т I				G A G G A G		гтт		
13	NATO AMO	57 54.0.00000l	000-A0000.	1.1101.3321	.5507	1.14.0.7	201	0		30.33							u a u				- v
		irts at 1 bp an																			

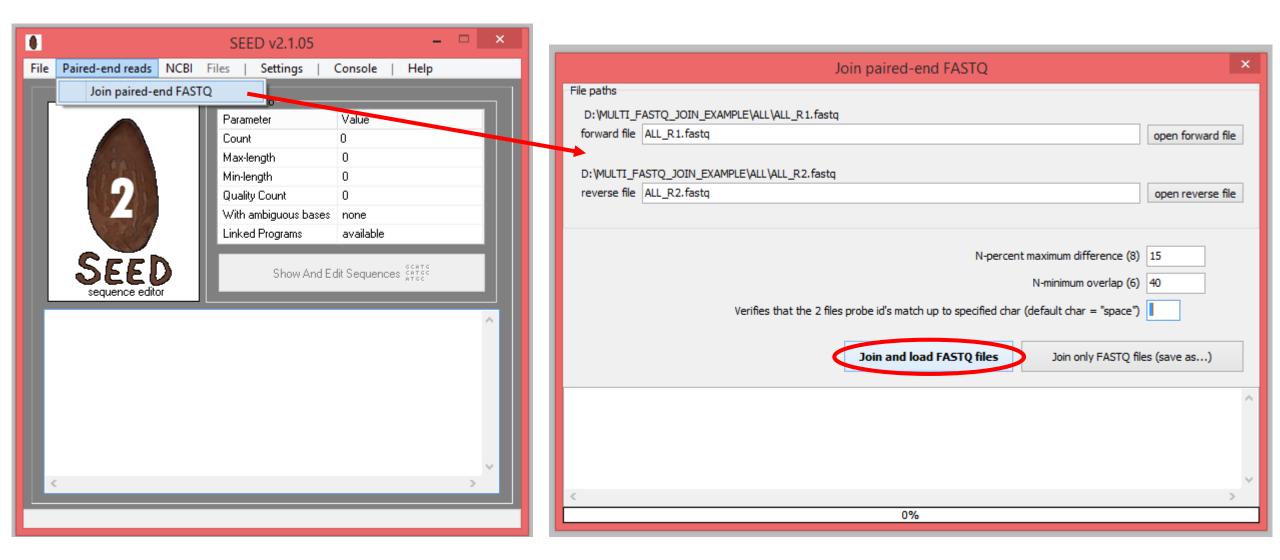
Step 5 – Save it as FASTQ

## Step 5 – Save the sequences as FASTQ



Step 6 – Do the same for R2 files :)

### Step 7 – Join the paired-ends



Then you can continue as described in manual....