



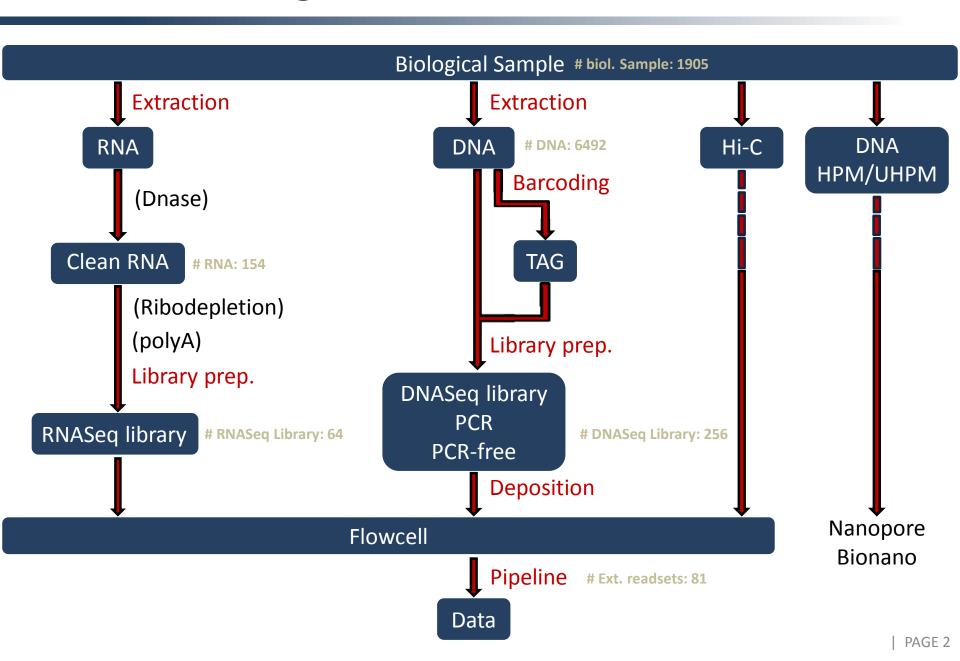


Seqlab: The Illumina platform

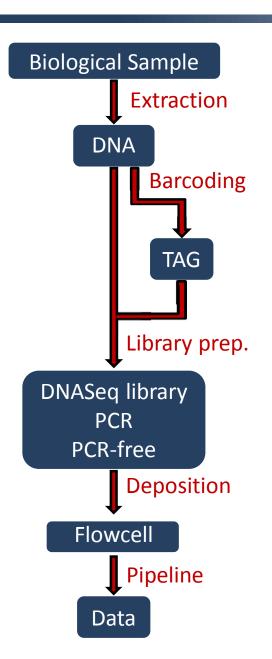
Research Meeting

Genoscope - CEA, Evry, France May, 2022

Workflow at a glance



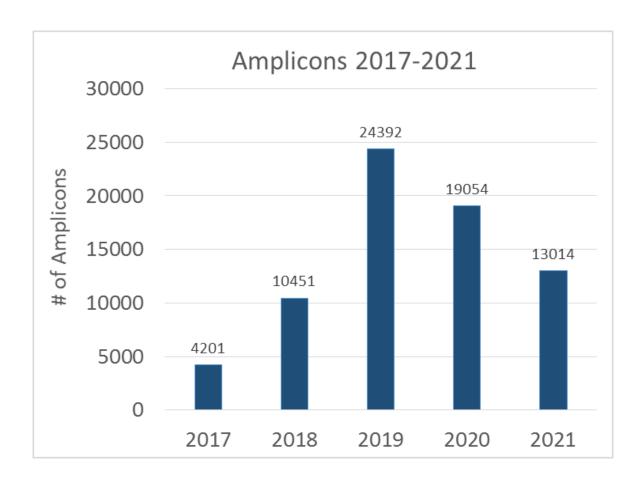
Amplicons & DNASeq



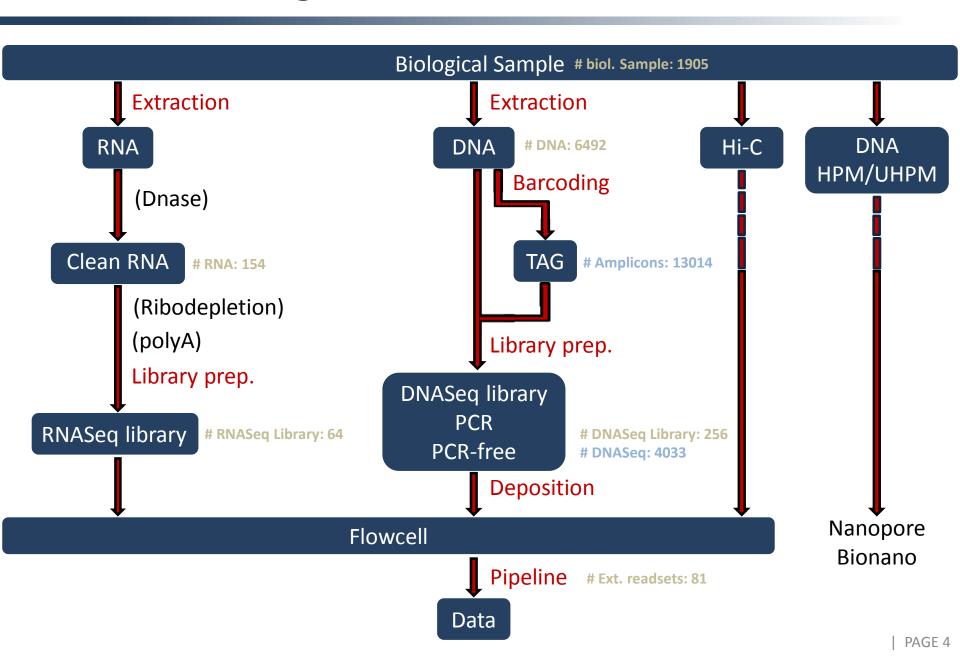
<u>2021</u>

Amplicons: 13014 – 31 targeted regions

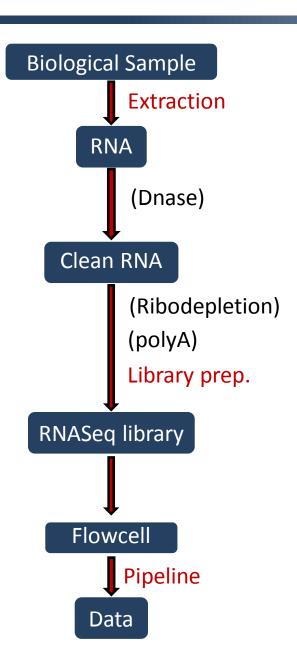
DNASeq: 4033



Workflow at a glance



RNASeq

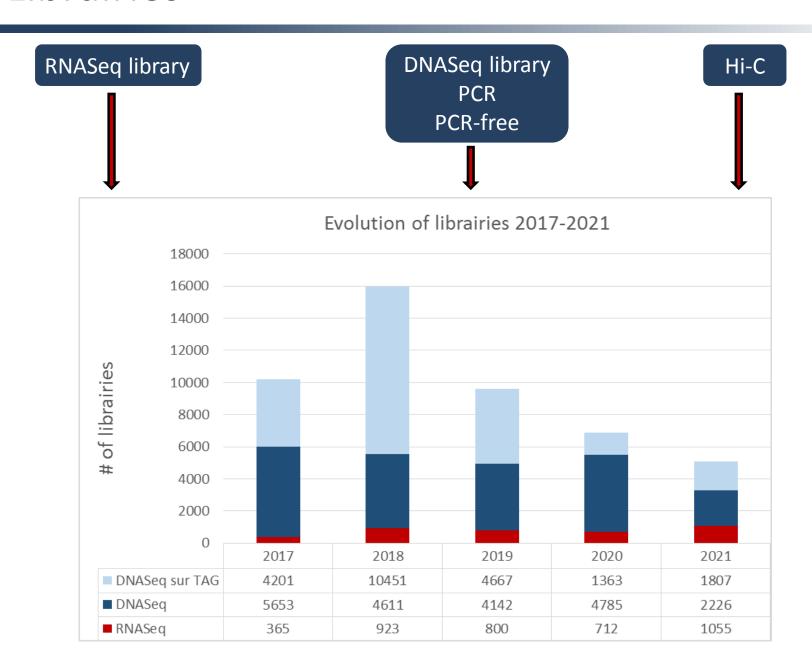


2021

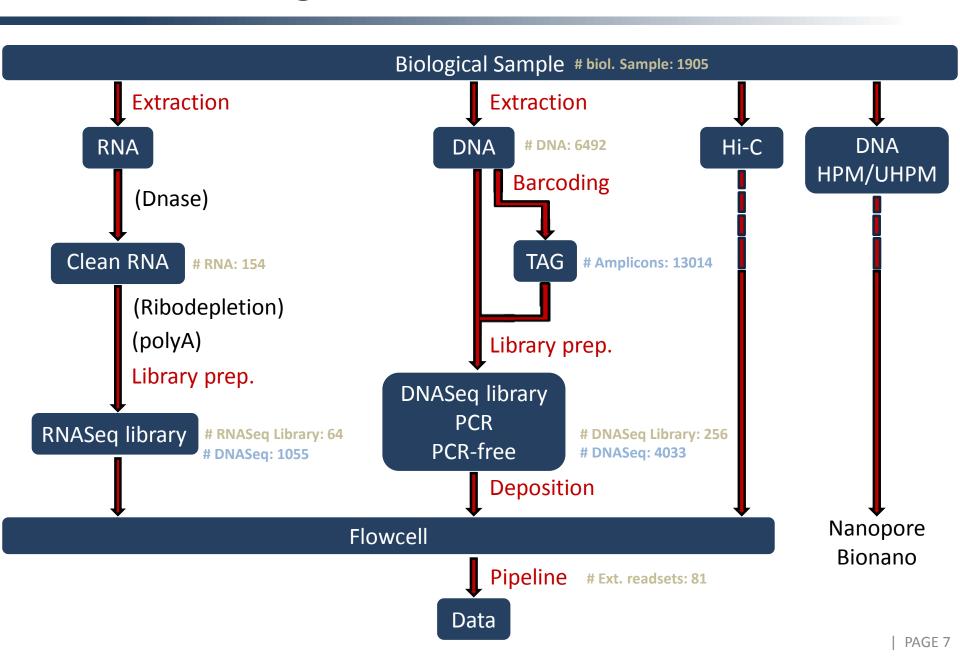
Ribodepletions: 263

RNASeq: 1055

Librairies



Workflow at a glance



Flowcell

Flowcell



MiSeq

Flowcell	type de runs	# Lane	nbre de clusters PF/lane	nbre de bases (total yield / FC)
MiSeq Nano 300 cycles	2X151 pb	1	1M	>500 Mb
MiSeq Nano 500 cycles	2X251 pb	1	1M	>1,2Gb
MiSeq Micro 300 cycles	2X151 pb	1	4M	>1,2Gb
MiSeq 300 cycles	2X151 pb	1	12M	>4,5 Gb
MiSeq 500 cycles	2X251 pb	1	12M	>7,5 Gb

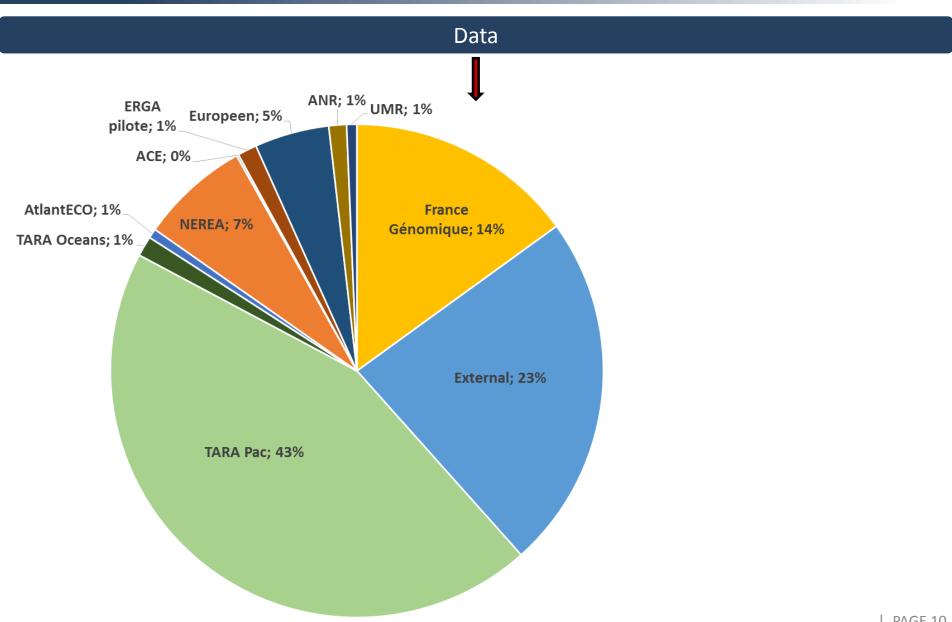
NovaSeq

Type de flow cell	type de runs	nbre de clusters/lane		# lane	# clusters/Flowcell		nbre de bases (total yield / FC)
SP 100 cycles	2X51	325	millions	2	650	millions	65-80 Gb
SP 200 cycles	2X101			2			134-167 Gb
SP 300 cycles	2X151			2			200-250 Gb
SP 500 cycles	2x251			2			325-400 Gb
S1 100 cycles	2X51	650	millions	2	1,3	billions	134-167 Gb
S1 200 cycles	2X101			2			266-333 Gb
S1 300 cycles	2X151			2			400-500 Gb
S2 100 cycles	2X51	1,7	billions	2	3,4	billions	333-417 Gb
S2 200 cycles	2X101			2			667-833 Gb
S2 300 cycles	2X151			2			1 - 1,25 Tb
S4 100 cycles	1X35	2	billions	4	8	billions	280-350 Gb
S4 200 cycles	2X101			4			1,6 - 2 Tb
S4 300 cycles	2X151			4			2,4 - 3 Tb

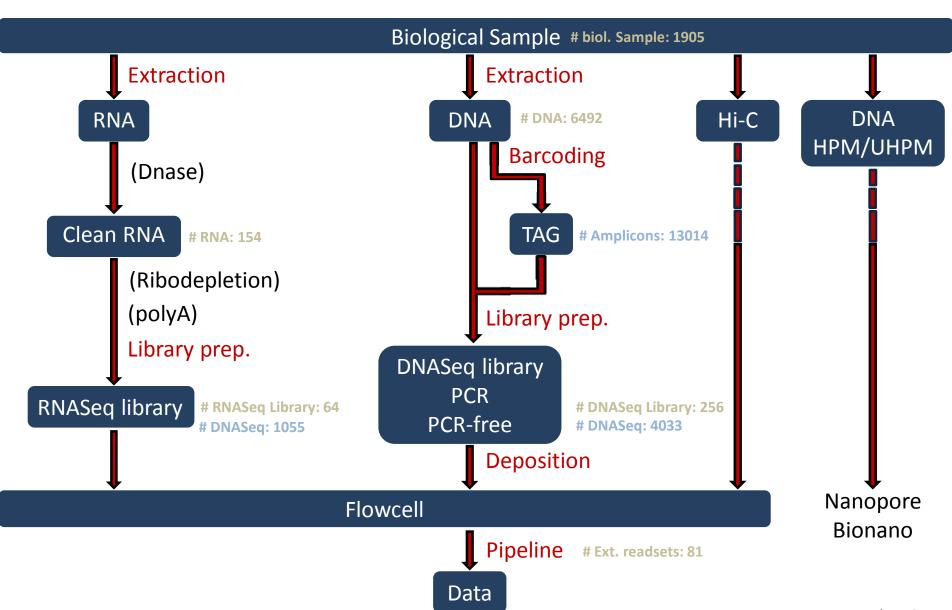
Data volumetry over the years



Repartition of bases in 2021



Thanks NGL





Team work



Barbara Estrada Chadia Hamon Benoit Vacherie Muriel Ronsin Emmanuelle Petit Maria Dubois Patricia Lenoble Elodie Brun Odette Beluche Marine Paillard Eric Mahieu Dominique Robert Claudine Louesse Corinne Dumont Ghislaine Magdelenat Sandrine Lebled Claire Milani Isabelle Bordelais Thomas Guerin Emilie Payen Peggy Perroud Evelyne Ettedgui Thibaut Audouy Aude Perdereau Corinne Cruaud Jean-Marc Barbance Karine Labadie Mélanie Beraud Pedro Oliveira Catherine Sarlande Laurie Bertrand Zineb El Hadji Nathalie Martins





