

**Commercial Embryo Transfer Activity  
in Europe 2022**

Collated by Helene Quinton

## National data collectors

<b>Country</b>	<b>Collector</b>	<b>Comment</b>
<b>Austria</b>	Eva DACHSBERGER	
<b>Belgium</b>	Isabelle DONNAY	
<b>Czech Republic</b>	Jiri SICHTAR	
<b>Denmark</b>	Henrik CALLESEN	
<b>Estonia</b>	Ants KAVA	
<b>Finland</b>	Anna OKSA-PULLIAINEN	
<b>France</b>	Serge LACAZE	
<b>Germany</b>	Hubert CRAMER	
<b>Greece</b>	Foteini SAMARTZI	
<b>Hungary</b>	Ferenc FLINK	
<b>Italy</b>	Giovanna LAZZARI	
<b>Latvia</b>	Ilga SEMATOVICA	
<b>Lithuania</b>	Rasa NAINIENE	
<b>Netherlands</b>	Anna BEKER VAN WOUNDENBERG	
<b>Netherlands</b>	Erik MULLAART	
<b>Norway</b>	Tjerand LUNDE	
<b>Poland</b>	Jedrzej JASKOWSKI	
<b>Portugal</b>	Joao Nestor CHAGAS E SILVA	
<b>Romania</b>	Stefan CIORNEI	
<b>Russian Federation</b>	Victor MADISON	
<b>Serbia</b>	Aleksandar MILOVANOVIC	
<b>Slovakia</b>	Dalibor POLAK	No activity
<b>Slovenia</b>	Aleksandar PLAVSIC	
<b>Spain</b>	Pablo BERMEJO	
<b>Sweden</b>	Renee BÅGE	
<b>Switzerland</b>	Sarah Wyck	
<b>Turkey</b>	Hakan SAGIRKAYA	
<b>United Kingdom</b>	Peter MAY and Jake OLIVIER	

## Declared bovine *In vivo* embryo production

Country	Dairy				Beef				All		
	Collec-tions	% Coll. with sexed semen	Embryos & ova	Transferable embryos	Collec-tions	% Coll. with sexed semen	Embryos & ova	Transferable embryos	Collec-tions total	Transferable embryos total	Embryos/ collection
Austria	526	8%	5 048	3 595	13	8%	174	40	539	3 635	6,7
Belgium	13	0%	78	22	652	0%	3 677	2 407	665	2 429	3,7
Czech Republic	410	0%	2 939	2 043					410	2 043	5,0
Denmark	773	0%	6 170	4 336	50	0%	535	402	823	4 738	5,8
Estonia	0		0	0	10	0%	122	57	10	57	5,7
Finland	365	7%	3 492	2 553	2	0%	16	10	367	2 563	7,0
France	4 836	16%	40 105	25 092	1 486	5%	15 160	8 450	6 322	33 542	5,3
Germany	3 970	0%	37 465	25 826	340	0%	4 048	2 364	4 310	28 190	6,5
Greece	4	100%	23	14					4	14	3,5
Hungary	389	98%	1 780	1 573	38	34%	225	181	427	1 754	4,1
Italy	2 145	56%	21 085	19 410	112	0%	1 098	796	2 257	20 206	9,0
Lithuania	2	0%	5	5					2	5	2,5
Netherlands	2 466	1%	19 762	12 879					2 466	12 879	5,2
Norway	370	1%	2 436	2 230	10	0%	93	65	380	2 295	6,0
Poland	235	52%	2 034	1 322	3	0%	29	16	238	1 338	5,6
Portugal	85	87%	781	364	30	0%	302	160	115	524	4,6
Romania	11	0%	68	31	4	0%	3	3	15	34	2,3
Russian Federation	358	55%	1 840	867	753	1%	7 259	4 545	1 111	5 412	4,9
Slovenia	15	20%	60	21	2	0%	7	7	17	28	1,6
Spain	179	86%	1 721	782	112	7%	1 241	757	291	1 539	5,3
Sweden	123	7%	971	655					123	655	5,3
Switzerland	408	54%	4 664	2 876	3	67%	69	34	411	2 910	7,1
Turkey	315	56%	2 824	1 791					315	1 791	5,7
United Kingdom	748	0%	7 431	4 138	3 296	0%	9 516	4 374	4 044	8 512	2,1
<b>Total</b>	<b>18 746</b>	<b>18%</b>	<b>162 782</b>	<b>112 425</b>	<b>6 916</b>	<b>1%</b>	<b>43 574</b>	<b>24 668</b>	<b>25 662</b>	<b>137 093</b>	<b>5,3</b>

### Declared bovine *In vitro* embryo production (OPU-IVP)

Country	Dairy				Beef				All		
	OPU	% OPU with sexed semen	Oocytes	Embryos	OPU	% OPU with sexed semen	Oocytes	Embryos	OPU	Embryos	Embryos /OPU
Austria	25	96%	237	38					25	38	1,5
Estonia	0		0	0	9		66	8	9	8	0,9
Finland	521	0%	4 749	1 075					521	1 075	2,1
France	1 544	2%	19 448	4 872	38	3%	924	392	1 582	5 264	3,3
Germany	2 650	0%	32 038	8 323					2 650	8 323	3,1
Hungary	1	0%	6	1	1	0%	4	1	2	2	1,0
Italy	177	71%	1 798	488	28	0%	114	28	205	516	2,5
Netherlands	5 871	1%	62 410	11 773					5 871	11 773	2,0
Norway	39	0%	447	70					39	70	1,8
Poland	150	85%	2 242	553					150	553	3,7
Romania	40	0%	209	84					40	84	2,1
Russian Federation	97	100%	985	147					97	147	1,5
Serbia	32	91%	412	141					32	141	4,4
Spain	748	77%	7 888	2 316	196	10%	2 339	765	944	3 081	3,3
Switzerland	228	34%	2 414	918					228	918	4,0
Turkey	144	0%	1 843	239					144	239	1,7
United Kingdom	787	0%	12 296	3 867					787	3 867	4,9
<b>Total</b>	<b>13 054</b>	<b>9%</b>	<b>149 422</b>	<b>34 905</b>	<b>272</b>	<b>8%</b>	<b>3 447</b>	<b>1 194</b>	<b>13 326</b>	<b>36 099</b>	<b>2,7</b>

### Declared bovine *In vitro* embryo production – abattoir

Country	Dairy				Beef			
	Donors	% with sexed semen	Oocytes	Embryos	Donors	% with sexed semen	Oocytes	Embryos
Estonia	0		0	0	1	0%		5
Greece	6	14%	192	16	12	0%	151	29
Netherlands	2	0%	75	27	0		0	0
Slovenia	164	0%	26 890	2 565	0		0	0
Spain	0		0	0	947	0%	13 173	3 562
United Kingdom	229	0%	2 478	837	64	0%	555	195
<b>Total</b>	<b>401</b>	<b>0%</b>	<b>29 635</b>	<b>3 445</b>	<b>1 024</b>	<b>0%</b>	<b>13 879</b>	<b>3 791</b>

### Declared bovine embryo technologies – embryo genotyping

Country	Sexed embryos		Genotyped embryos	
	In Vivo	In Vitro	In Vivo	In Vitro
France	266	0	678	88
Germany	163	9	0	0
Netherlands	0	0	0	4 156
<b>Total</b>	<b>429</b>	<b>9</b>	<b>678</b>	<b>4 244</b>

## Declared bovine embryo transfers and exports– *In vivo*

Country	Dairy				Beef				Total embryos transferred
	Fresh embryos transferred	Frozen embryos			Fresh embryos transferred	Frozen embryos			
		Domestic transferred	Foreign transferred	Exported		Domestic transferred	Foreign transferred	Exported	
Austria	1 515	1 786	48	24	16	94	0	0	3 459
Belgium	2	20	0	0	493	1 914	0	0	2 429
Czech Republic	1 253	914	0	0	0	0	0	0	2 167
Estonia	0	0	0	0	15	5	39	0	59
Denmark	3 147	1 519	0	18	103	106	0	9	4 875
Finland	722	1 875	83	573	3	12	50	0	2 745
France	12 031	10 525	877	124	2 863	3 375	156	256	29 827
Germany	10 861	15 403	0	853	836	1 340	0	0	28 440
Greece	14	0	7	0	0	0	0	0	21
Hungary	644	621	0	0	62	83	13	0	1 423
Italy	6 037	1 755	0	0	132	0	0	0	7 924
Netherlands	2 290	9 596	0	0	0	0	0	0	11 886
Norway	43	2 063	150	0	30	35	80	0	2 401
Poland	783	286	46	0	4	0	0	0	1 119
Portugal	124	170	0	0	74	53	88	0	509
Romania	61	0	0	0	4	0	46	0	111
Russian Federation	312	587	1 045	0	10	4 586	121	0	6 661
Slovenia	30	5	0	0	3	4	0	0	42
Spain	353	478	61	31	132	322	100	0	1 446
Sweden	420	1 099	0	0	0	0	0	0	1 519
Switzerland	671	1 952	270	152	0	0	0	0	2 893
Turkey	1 128	113	0	0	0	0	0	0	1 241
United Kingdom	1 738	2 097	814	4	795	2 240	438	135	8 122
<b>Grand Total</b>	<b>44 179</b>	<b>52 864</b>	<b>3 401</b>	<b>1 779</b>	<b>5 575</b>	<b>14 169</b>	<b>1 131</b>	<b>400</b>	<b>121 319</b>

## Declared bovine embryo transfers and exports – *In vitro*

Country	OPU				Abattoir		Total embryos transferred
	Fresh embryos transferred	Domestic frozen embryos transferred	Foreign frozen embryos transferred	Embryos exported	Fresh embryos transferred	Domestic frozen embryos transferred	
Austria	0	19	0	0	0	0	19
Estonia	0	0	6	0	0	0	6
Finland	0	747	0	281	0	0	747
France	2 373	2 138	208	0	0	0	4 719
Latvia	9	10	80	0	0	0	99
Netherlands	3 907	2 228	0	0	0	0	6 135
Poland	89	57	0	0	0	0	146
Portugal	0	1	78	0	0	0	79
Romania	33	51	0	0	0	0	84
Russian Federation	6	80	0	0	0	0	86
Serbia	0	3	0	0	0	0	3
Spain	845	1 068	30	29	1 394	980	4 317
Turkey	0	239	0	0	10	61	310
United Kingdom	302	843	1	130	0	0	1 146
<b>Grand total</b>	<b>7 564</b>	<b>7 484</b>	<b>403</b>	<b>440</b>	<b>1 404</b>	<b>1 041</b>	<b>17 871</b>

## Declared embryo production, transfer and export in other species – *In vivo*

Species	Country	Embryo collection		Embryo transfer			
		Collections	Viable embryos	Fresh embryos	Frozen domestic	Frozen foreign	Exported embryos
Sheep	Hungary	7	7	7	0	0	0
	Portugal	12	16	7	0	0	0
	Turkey	5	13	7	6	96	0
	United Kingdom	290	1296	1095	175	0	0
	<b>Total</b>	<b>314</b>	<b>1332</b>	<b>1 116</b>	<b>181</b>	<b>96</b>	<b>0</b>
Goat	Turkey	2	24	24	0	0	0
	United Kingdom	1	22	22	0	16	0
	<b>Total</b>	<b>3</b>	<b>46</b>	<b>46</b>	<b>0</b>	<b>16</b>	<b>0</b>
Horse	Czech Republic	23	22	7	0	0	0
	Estonia	5	5	5	0	0	0
	France	6 470	3 235	3 235	0	0	0
	Hungary	3	3	3	0	0	0
	Poland	7	7	7	7	0	0
	Portugal	87	49	49	0	0	0
	Romania	3	0	2	0	0	0
	Russian Federation	42	28	25	2	0	0
	Sweden	33	0	23	0	0	0
	<b>Total</b>	<b>6 673</b>	<b>3 349</b>	<b>3 356</b>	<b>9</b>	<b>0</b>	<b>0</b>
Rabbit	Romania	31	209	0	0	0	0

## Declared embryo production, transfer and export in other species – *In vitro*

Species	Country	Oocyte collection				IVP embryo transfer			Exported embryos
		OPU conv	OPU sexed	Oocytes	Embryos	Fresh embryos	Frozen domestic	Frozen foreign	
Sheep	Serbia	2	0	22	6	0	0	0	0
	Sweden	0	0	0	0	0	0	295	0
	United Kingdom	12	0	48	0	0	0	0	0
	<b>Total</b>	<b>14</b>	<b>0</b>	<b>70</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>295</b>	<b>0</b>
Horse	Estonia	0	0	0	0	0	0	3	0
	Italy	1 595	0	47 321	7 036	9	796	0	3 609
	Poland	21	0	210	21	0	0	0	21
	Portugal	39	0	419	74	0	0	2	0
	Sweden	0	0	0	0	23	0	0	0
	Switzerland	40	0	114	22	0	14	8	8
	<b>Total</b>	<b>1 695</b>	<b>0</b>	<b>48 064</b>	<b>7 153</b>	<b>32</b>	<b>810</b>	<b>13</b>	<b>3 638</b>