

Annual Award Report to HFSPO Members

Switzerland FY 2024-2025

(1 April 2024 - 31 March 2025)

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1 Executive summary

General

The HFSP Board of Trustees approved the following awards for 2024:

- 34 Research Grants out of a total of 711 eligible Letters of Intent and 100 Full Proposals (34%). Of those awarded, 25 were Research Grants-Program and 9 were Research Grants-Early Career. The success rate of HFSP Research Grants in 2024: 4.8%
- 59 Postdoctoral Fellowships out of a total of 535 Letters of Intent and 107 Full Proposals (55%). Of those awarded, 48 were Long-Term Fellowships and 11 were Cross-Disciplinary Fellowships. The success rate of HFSP Fellowships in 2024: 11%

Switzerland

With awards starting in 2024, HFSP will support:

- One Switzerland based scientist who is involved in 1 out of the 34 HFSP Research Grants awarded in 2024. This scientist leads a Research Grants-Program team as principal investigator.
- Two Long-Term Fellows from Israel and the USA and one Cross-Disciplinary Fellow from Indonesia who will work in Swiss research institutions.

For awards in previous years, see *Chapter 4 Switzerland 1990-2024*

2 Introduction to HFSP programs

The International Human Frontier Science Program Organization (HFSP) funds an international program of research support for frontier research on the complex mechanisms of living organisms through the Human Frontier Science Program (HFSP). Research is funded at all levels of biological complexity from biomolecules to the interactions between organisms.

Key elements of HFSP's mission are to support innovative, cutting edge research at the frontiers of the life sciences, to encourage high risk research, to promote international collaboration in the spirit of science without borders, and to support early career researchers.

HFSP schemes are highly competitive, but also highly prestigious. This prestige, together with the fact that the schemes provide researchers with unique opportunities to work collaboratively across all countries and disciplines, attracts many outstanding applications each year.

HFSP Research Grants (Research Grants-Program and Research Grants-Early Career) provide 3 years of support for international teams involving at least two countries. Preference is given to intercontinental collaborations (rather than all N. American or all European teams). All team members are expected to broaden the character of their research compared to their ongoing research programs and interact with teams bringing expertise that is very different from their own so as to create novel approaches to problems in fundamental biology. All members of a Research-Grant Early Career team must be within 5 years of establishing their independent research group and no more than 10 years from their doctoral degree. Research Grant-Program teams may consist of team members at any stage of their career as independent investigators. Each grant is an award to at least two researchers from different countries. Furthermore, HFSP expects that by creating new exchanges, these international interactions will lead to innovative projects.

There is a single annual competition for HFSP Research Grants and a full description of the review process is available at:

https://www.hfsp.org/funding/hfsp-funding/research-grants#review_procedures

HFSP Fellowships support innovative, ground-breaking projects that have the potential to advance knowledge in the applicants' field of study or open a new approach to a research problem. High risk research is supported.

Long-Term Fellowships support applicants with a degree in the life science to obtain training in a new area of research in an outstanding laboratory of their choice in another country. *Cross-Disciplinary Fellowships* are intended for postdoctoral fellows with a degree outside the life sciences (e.g. physical sciences, chemistry, mathematics, engineering or computer sciences) who wish to receive training in biology. HFSP Fellows receive 3 years of support to obtain training in an outstanding laboratory of their choice in another country. The annual competition for HFSP Fellowship awards is explained in detail at <http://www.hfsp.org/funding/postdoctoral-fellowships>.

3 Awards in 2024 for Switzerland

HFSP support provided to Swiss and non-Swiss scientists working in Swiss laboratories, and Swiss scientists working abroad.

3.1. Overview

Research Grants

Number of grants awarded to leaders of international teams working in Switzerland (principal investigators):

Research Grants-Program	1
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Fellowships

Number of fellowships awarded to foreign scientists who wish to work in Switzerland:

Long-Term Fellowships	2
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Cross-Disciplinary Fellowships	1
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3.2 Research Grants 2024

**Grants awarded to leaders of international teams working in Switzerland
(principal investigators)**

Research Grants-Program

**BELTRAO
Pedro**

Dept. of Biology
ETH Zurich
Zurich

Discovering the chemical space of
bioactive modified nucleotides and
their enzymatic repertoire

3.3 Fellowships 2024

Fellowships awarded to foreign scientists who wish to work in Switzerland

Long-Term Fellowships

DAHL Kristin USA	From	University of Colorado Aurora USA	<i>Analysis of molecular changes of the nervous system in <i>C. elegans</i> upon circadian rhythm entrainment</i>
	To	Biozentrum University of Basel Basel Switzerland	Supervisor: SPANG Anne
KOL Adi Israel	From	The Hebrew University of Jerusalem Jerusalem Israel	<i>The role of simultaneous population dynamics in associative learning</i>
	To	Friedrich Miescher Institute Basel Switzerland	Supervisor: LUETHI Andreas

Cross-Disciplinary Fellowships

FRIDIANTO Kevin Timothy Indonesia	From	National University of Singapore Singapore Singapore	<i>Elucidating electrophile-sensor signaling proteins at the contact sites between bacteria and host</i>
	To	École Polytechnique Fédérale de Lausanne Lausanne Switzerland	Supervisor: AYE Yimon

4 Switzerland 1990-2024

This section summarizes Switzerland's involvement in HFSPO funded research projects in 2024 and integrates a historical perspective with running totals over the last 10 years.

4.1 HFSP Research Grants

The table below lists the number of Swiss based scientists at the Letter of Intent (LI) stage and those scientists who participated in a Full Proposal. The data shown in the table express the status at the time of submitting the application to HFSP. Scientists may have moved their laboratory to a different country in the years after receiving HFSPO support.

	Letters of Intent (LI)		Full Proposals (FP)		Awardees (AW)	
Year	All team members	Switzerland based scientists	All team members	Switzerland based scientists	Total Awarded	Switzerland based Awardees
1990-2014	28944*	691	17891+	517	3607	123
2015	3092	62	252	8	98	1
2016	2604	64	272	10	100	5
2017	3208	61	252	6	98	3
2018	2321	64	251	10	102	4
2019	2394	57	268	9	105	5
2020	2051	47	256	7	86	2
2021	2062	43	292	4	94	2
2022	2032	57	206	7	100	4
2023	1672	36	247	8	107	2
2024	1978	50	313	7	108	1
Total	52358	1232	20500	593	4605	152

*there were no Letters of Intent in the application process before 2001

+ for 1990/91, there is no information available on the number of applicants

The table below lists the number of teams including Switzerland based scientists in the last 10 years.

	Letters of Intent (LI)	Full Proposals (FP)	Awardees (AW)	Success rate based on Lis (%)	Success rate based on FPs (%)	Total Awarded teams
Year	Teams with member (s) in Switzerland	Teams with member (s) in Switzerland	Teams with member (s) in Switzerland			
2015	60	8	1	1,7	12,5	31
2016	61	10	4	6,6	40,0	32
2017	57	5	3	5,3	60,0	30
2018	61	10	4	6,6	40,0	31
2019	55	9	5	9,1	55,6	34
2020	45	7	2	4,4	28,6	28
2021	40	4	2	5,0	50,0	28
2022	56	7	4	7,1	57,1	32
2023	36	8	2	5,5	25,0	34
2024	50	7	1	2,0	14,3	34

4.2 HFSP Postdoctoral Fellowships

The table below shows the number of fellowship applications reviewed and awards granted to Swiss applicants and the number of fellowships applied for and carried out in Switzerland.

Award year	Swiss fellowship applicants	Total applicants	Swiss fellowship awardees	Total awards	Switzerland as proposed host country by fellowship applicants	Switzerland as host country of HFSP fellows
1990-2014*	213	16,150	69	2,844	688	137
2015	7	788	2	75	46	8
2016	6	697	1	75	40	6
2017	5	776	1	72	53	10
2018	2	588		90	49	8
2019	2	580	2	82	40	14
2020	5	544	1	65	56	10
2021	6	665		56	48	5
2022	2	493		65	33	5
2023		429		50	15	4
2024**	3	535		59	36	3
Total	251	22,245	76	3,533	1,104	210

* The number of candidates from and to Switzerland for award year 1990 to 1992 is not available.

** The figures for 2024 reflect the awards approved by the Board of Trustees in March 2024 and may be subject to change.

5 International distribution of 2024 awards

As last year, this section shows tabular breakdown according to country (location of laboratory), nationality and host country (of HFSP fellowship holders) for 2024 Awards.

In addition, this year, new figures present a country comparison for the complete record and the last 10 years of HFSP awards for MSP and a separate presentation for the awardees in or from European countries.

5.1 Research Grants 2024

34 grants were awarded (25 Research Grants-Program and 9 Research Grants-Early Career). Each grant is an award to at least two researchers from different countries. The Principal Investigator is responsible for submitting the application and coordinating the collaboration.

The countries in which the 34 Principal Investigators and the 74 co-applicants work are shown in Table I, together with the total number of applications. Their nationalities are shown in Table II.

Table I Applicants / Awardees listed by COUNTRY - Research Grants

RG-P= Program RG-EC= Early Career	Letters of Intent*			Full Proposals			Awardees		
	RG-P	RG-EC	TOTAL	RG-P	RG-EC	TOTAL	RG-P	RG-EC	TOTAL
Australia	67	5	72	8	1	9	3	0	3
Canada	76	18	94	10	2	12	3	1	4
EU	262(a)	66(a)	328(a)	40(b)	13(b)	53(b)	11(c)	5(c)	16(c)
France	105	6	111	20	1	21	9	0	9
Germany	148	28	176	21	3	24	7	2	9
India	41	9	50	5	0	5	0	0	0
Israel	69	14	83	19	1	20	8	0	8
Italy	64	10	74	5	1	6	1	0	1
Japan	95	12	107	13	3	16	4	2	6
Korea	8	5	13	1	0	1	0	0	0
New Zealand	6	0	6	1	0	1	1	0	1
Norway	22	3	25	2	1	3	0	1	1
Singapore	28	3	31	5	0	5	0	0	0
South Africa	10	7	17	2	1	3	0	1	1
Switzerland	45	5	50	6	1	7	1	0	1
UK	144	24	168	31	9	40	12	6	18
USA	371	87	458	62	14	76	20	7	27
Non MSPs	92(a')	23(a')	115(a')	8(b')	3(b')	11(b')	2(c')	1(c')	3(c')
TOTAL	1653	325	1978	259	54	313	82	26	108

*Eligible Letters of Intent

(a) EU Letters of Intent

RG-P: Austria 18, Belgium 15, Czech Republic 16, Denmark 20, Estonia 2, Finland 4, Greece 2, Hungary 3, Ireland 9, Malta 1, Netherlands 54, Poland 5, Portugal 17, Romania 2, Slovakia 1, Slovenia 3, Spain 60, Sweden 30.

RG-EC: Austria 5, Belgium 5, Czech Republic 1, Denmark 4, Estonia 1, Finland 1, Greece 2, Ireland 3, Netherlands 17, Portugal 5, Slovakia 1, Slovenia 1, Spain 14, Sweden 6.

(b) EU Full Proposals

RG-P: Austria 3, Belgium 4, Czech Republic 2, Denmark 3, Hungary 1, Ireland 2, Netherlands 8, Poland 2, Portugal 4, Slovenia 1, Spain 7, Sweden 3.

RG-EC: Austria 1, Belgium 1, Netherlands 6, Spain 4, Sweden 1.

(c) EU Awardees

RG-P: Austria 1, Belgium 1, Denmark 1, Netherlands 1, Portugal 1, Spain 5, Sweden 1.

RG-EC: Netherlands 2, Spain 2, Sweden 1.

(a') Non MSPs Letters of Intent

RG-P: Argentina 10, Brazil 14, Cameroon 1, Chile 10, China 14, Colombia 5, Costa Rica 1, Cuba 1, DR Congo 1, Ethiopia 1, Ghana 2, Malaysia 1, Mexico 4, Nigeria 1, Pakistan 2, Panama 1, Peru 1, Serbia 1, Taiwan 5, Tunisia 1, Turkey 6, Uganda 1, United Arab Emirates 3, Uruguay 4, Vietnam 1.

RG-EC: Argentina 1, Bangladesh 1, Botswana 1, Brazil 2, Cameroon 1, Chile 1, China 5, Ethiopia 1, Kenya 1, Lebanon 1, Mexico 1, Taiwan 2, Thailand 1, Uganda 1, United Arab Emirates 2, Zimbabwe 1.

(b') Non MSPs Full Proposals

RG-P: Argentina 2, Chile 1, China 4, Uruguay 1.

RG-EC: Ethiopia 1, Hong Kong 1, Taiwan 1.

(c') Non MSPs Awardees

RG-P: Argentina 1, China 1.

RG-EC: Ethiopia 1.

Table II Applicants / Awardees listed by NATIONALITY - Research Grants

RG-P= Program RG-EC= Early Career	Letters of Intent*			Full Proposals			Awardees		
	RG-P	RG-EC	TOTAL	RG-P	RG-EC	TOTAL	RG-P	RG-EC	TOTAL
Australia	52	6	58	3	1	4	1	0	1
Canada	74	22	96	11	5	16	2	2	4
EU	290(a)	65(a)	355(a)	49(b)	11(b)	60(b)	11(c)	6(c)	17(c)
France	91	13	104	16	1	17	7	0	7
Germany	153	24	177	21	2	23	9	1	10
India	59	24	83	14	4	18	3	0	3
Israel	74	16	90	19	1	20	8	0	8
Italy	106	18	124	12	5	17	4	2	6
Japan	101	10	111	16	2	18	5	1	6
Korea	10	4	14	1	0	1	0	0	0
New Zealand	10	0	10	3	0	3	2	0	2
Norway	7	2	9	0	1	1	0	1	1
Singapore	11	2	13	1	0	1	0	0	0
South Africa	8	6	14	1	2	3	0	2	2
Switzerland	28	4	32	3	0	3	1	0	1
UK	94	11	105	18	3	21	9	3	12
USA	317	57	374	51	12	63	15	6	21
Non MSPs	163(a')	41(a')	204(a')	19(b')	4(b')	23(b')	4(c')	2(c')	6(c')
TOTAL	1653**	325	1978**	259**	54	313**	82**	26	108**

*Eligible Letters of Intent, **Unknown nationalities: 5 RGP for letters of Intent and 1 RG-P for full proposals and awards

(a) EU Letters of Intent

RG-P: Austria 13, Belgium 17, Bulgaria 1, Croatia 3, Cyprus 1, Czech Republic 12, Denmark 13, Estonia 2, Finland 7, Greece 12, Hungary 10, Ireland 13, Malta 1, Netherlands 45, Poland 10, Portugal 20, Romania 5, Slovakia 4, Slovenia 3, Spain 76, Sweden 22.
RG-EC: Austria 3, Belgium 2, Croatia 2, Czech Republic 1, Denmark 3, Greece 6, Hungary 1, Ireland 5, Netherlands 9, Poland 1, Portugal 5, Slovakia 1, Slovenia 2, Spain 21, Sweden 3.

(b) EU Full Proposals

RG-P: Belgium 2, Croatia 1, Czech Republic 1, Denmark 3, Finland 2, Greece 4, Hungary 1, Ireland 4, Netherlands 8, Poland 2, Portugal 6, Slovenia 1, Spain 11, Sweden 3.
RG-EC: Czech Republic 1, Netherlands 3, Poland 1, Spain 6.

(c) EU Awardees

RG-P: Belgium 1, Denmark 2, Portugal 2, Spain 5, Sweden 1.
RG-EC: Czech Republic 1, The Netherlands 2, Spain 3.

(a') Non MSPs Letters of Intent

RG-P: Albania 1, Argentina 16, Belarus 1, Brazil 22, Cameroon 1, Chile 10, China 30, Colombia 8, Costa Rica 1, Cuba 1, DR Congo 1, Egypt 1, Ethiopia 1, Ghana 2, Iceland 1, Indonesia 1, Iran 1, Madagascar 1, Malaysia 5, Mexico 6, Nigeria 3, Pakistan 3, Panama 1, Papua New Guinea 1, Peru 2, Russia 7, Senegal 1, Serbia 1, Taiwan 5, Thailand 1, Tunisia 1, Turkey 13, Uganda 1, Ukraine 4, United Arab Emirates 1, Uruguay 3, Vietnam 4.
RG-EC: Algeria 1, Argentina 4, Bangladesh 1, Brazil 3, Cameroon 2, Chile 1, China 10, Ethiopia 1, Kenya 2, Lebanon 1, Macedonia 1, Malaysia 1, Mexico 2, Russia 2, Taiwan 3, Thailand 1, Uganda 1, Vietnam 1, Zimbabwe 3.

(b') Non MSPs Full Proposals

RG-P: Argentina 3, Chile 1, China 4, Colombia 1, Egypt 1, Madagascar 1, Malaysia 2, Russia 2, Turkey 1, Ukraine 2, Uruguay 1.
RG-EC: Algeria 1, Ethiopia 1, Russia 1, Taiwan 1.

(c') Non MSPs Awardees

RG-P: Argentina 2, Madagascar 1, Russia 1.
RG-EC: Ethiopia 1, Russia 1.

Fig. 1: Number of Research Grant applicants 1992-2024 and in the last ten years (2015-2024) (upper panel) and Research Grant awardees 1990-2024 and 2015-2024 (lower panel) by country where the research laboratory was located (until 2001 Research Grants were evaluated in single step of Full Proposals but as of 2002 the numbers represent submitted Letters of Intent).

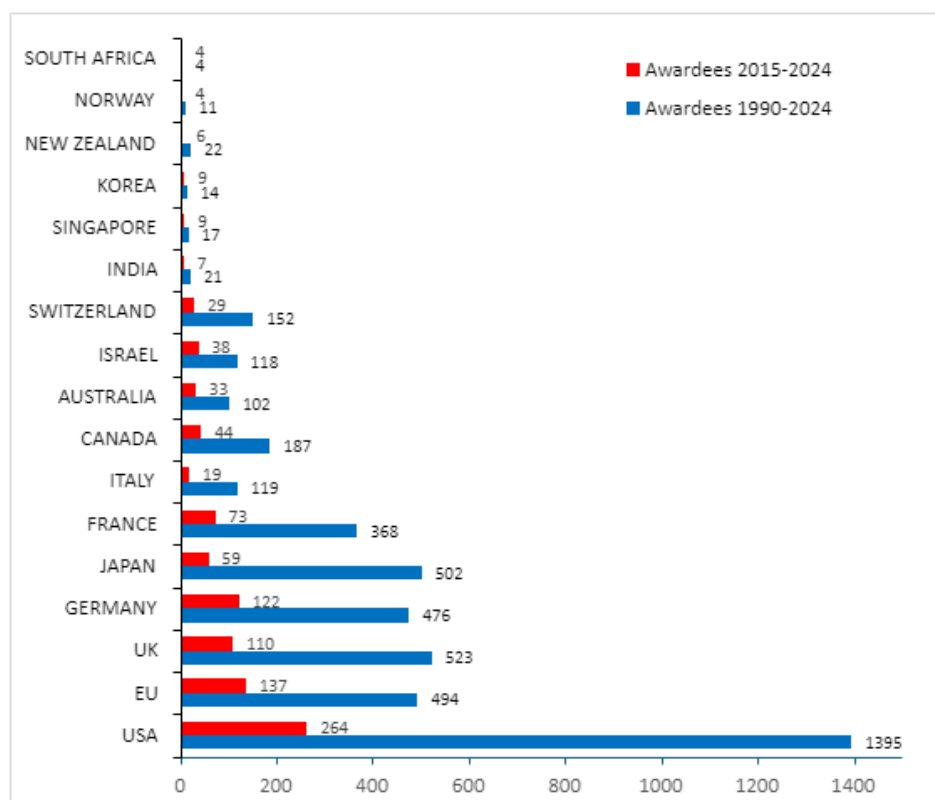
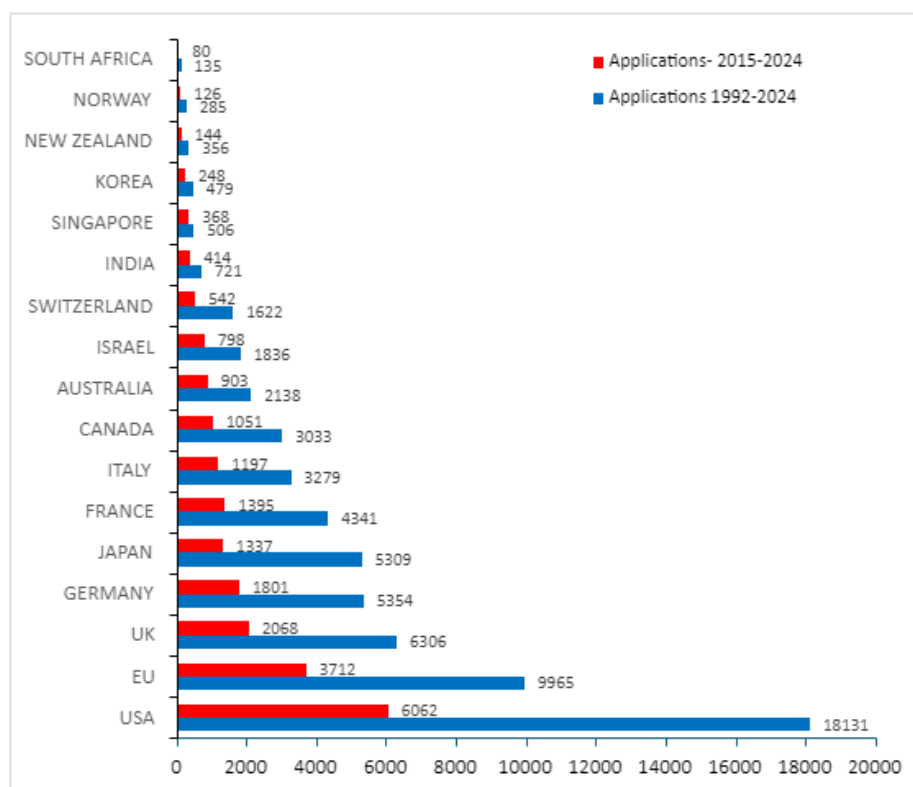
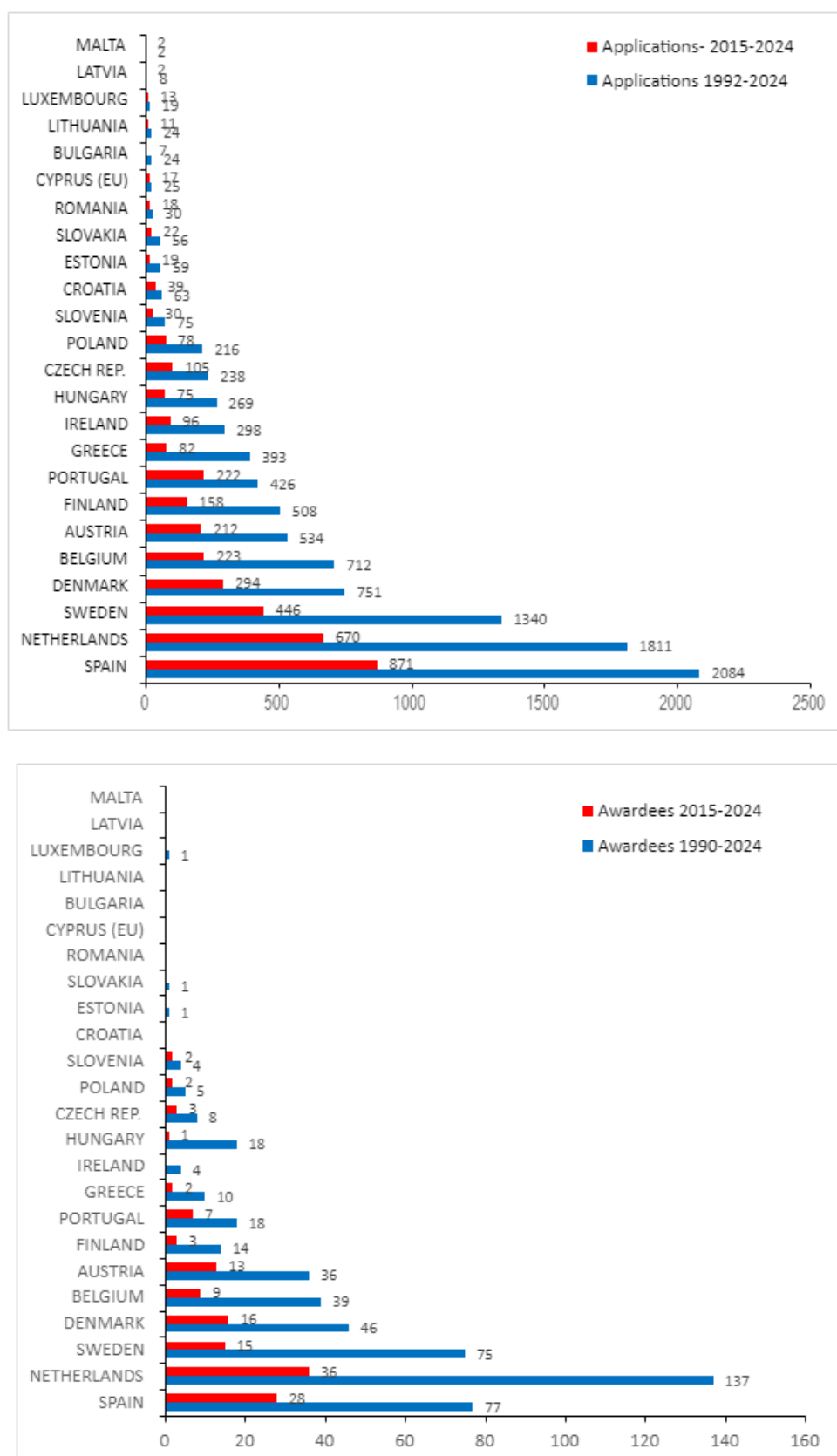


Fig. 2: Number of Research Grant applicants 1992-2024 and 2015-2024 (upper panel) and Research Grant awardees 1990-2024 and 2015-2024 (lower panel) in European countries (excluding Germany, France and Italy).



5.2 Fellowships 2024

In 2024, 535 fellowship letters of intent were reviewed. 48 Long-Term Fellowships and 11 Cross-Disciplinary Fellowships were awarded to young post-doctoral scientists who wish to work in a laboratory abroad.

Table III Applications / Awards listed by NATIONALITY (as approved by the Board in March 2024)

	Letters of Intent			Full Proposals			Awards		
	LTF	CDF	TOTAL	LTF	CDF	TOTAL	LTF	CDF	TOTAL
<i>LTF = Long-Term</i>									
<i>CDF=Cross-Disciplinary</i>									
Australia	11	0	11	1	0	1	0	0	0
Canada	11	0	11	1	0	1	1	0	1
EU	74	9	83 (a)	16	2	18 (b)	8	2	10 (c)
France	35	0	35	7	0	7	3	0	3
Germany	23	6	29	5	4	9	3	3	6
India	76	15	91	11	1	12	6	1	7
Israel	12	4	16	4	0	4	2	0	2
Italy	24	3	27	4	2	6	1	2	3
Japan	34	2	36	9	1	10	7	1	8
Korea	17	3	20	2	1	3	0	0	0
New Zealand	0	0	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0	0	0
Singapore	3	0	3	1	0	1	1	0	1
South Africa	0	0	0	0	0	0	0	0	0
Switzerland	2	1	3	0	0	0	0	0	0
UK	12	0	12	2	0	2	1	0	1
USA	20	1	21	5	1	6	3	0	3
Other	112	25	137 (a')	23	4	27 (b')	12	2	14 (c')
TOTAL	466	69	535	91	16	107	48	11	59

(a) EU Letters of Intent

LTF: Austria 4, Belgium 3, Bulgaria 1, Croatia 2, Cyprus, EU part 2, Czech Republic 1, Denmark 3, Estonia 2, Finland 1, Greece 11, Hungary 3, Ireland 1, Lithuania 1, The Netherlands 9, Poland 5, Portugal 4, Romania 1, Slovakia 2, Spain 17, Sweden 1

CDF: Austria 1, Greece 1, The Netherlands 3, Poland 1, Slovenia 1, Spain 2

(b) EU Full Proposals

LTF: Austria 1, Belgium 1, Cyprus, EU part 1, Finland 1, Greece 2, Hungary 1, Lithuania 1, The Netherlands 3, Portugal 1, Spain 4

CDF: Austria 1, Slovenia 1

(c) EU Awardees

LTF: Austria 1, Finland 1, Greece 1, Lithuania 1, The Netherlands 2, Portugal 1, Spain 1

CDF: Austria 1, Slovenia 1

(a') Letters of Intent from other nationalities

LTF: Algeria 1, Argentina 4, Bangladesh 2, Brazil 3, Cameroon 1, Chile 2, China 21, Colombia 1, Cuba 3, Egypt 1, Iran 3, Lebanon 2, Malaysia 4, Mexico 1, Morocco 1, Myanmar 1, Nigeria 3, Pakistan 6, Peru 1, Philippines 2, Russia 4, Serbia 1, Sudan 2, Taiwan 2, Turkey 4, Ukraine 1, Uruguay 1, Vietnam 1, dual nationalities 33

CDF: Argentina 1, Bangladesh 1, Brazil 3, Chile 1, China 5, Colombia 1, Indonesia 1, Iran 1, Jordan 1, Mexico 1, Nigeria 1, Pakistan 2, Turkey 2, dual nationalities 4

(b') Full Proposals from other nationalities

LTF: Argentina 2, China 2, Malaysia 3, Pakistan 1, Sudan 1, Taiwan 2, Turkey 1, Uruguay 1, dual nationalities 10

CDF: Brazil 1, China 1, Indonesia 1, dual nationality 1

(c') Awardees from other nationalities

LTF: Argentina 2, China 1, Sudan 1, Taiwan 2, Uruguay 1, dual nationalities 5

CDF: Indonesia 1, dual nationality 1

Fig. 3: Number of Fellowship applicants 1993-2024 and 2014-2024 (upper panel) and Fellowship awardees 1990-2024 and 2014-2024 (lower panel) by nationality

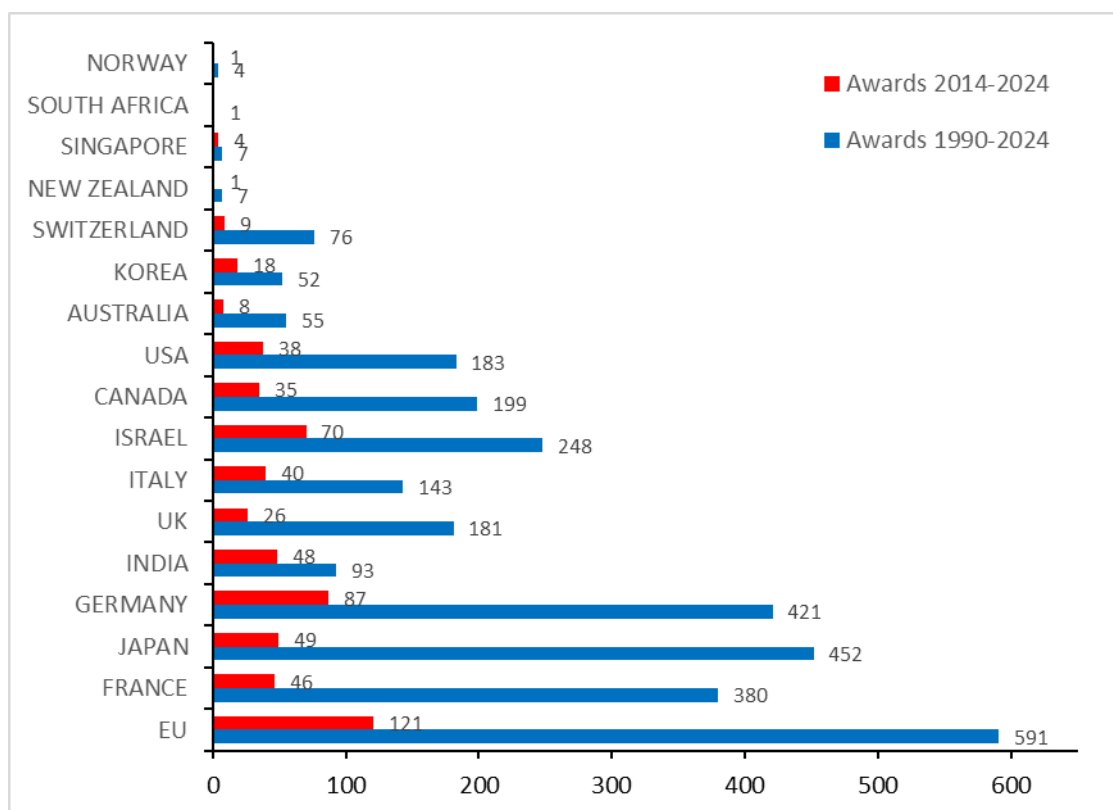
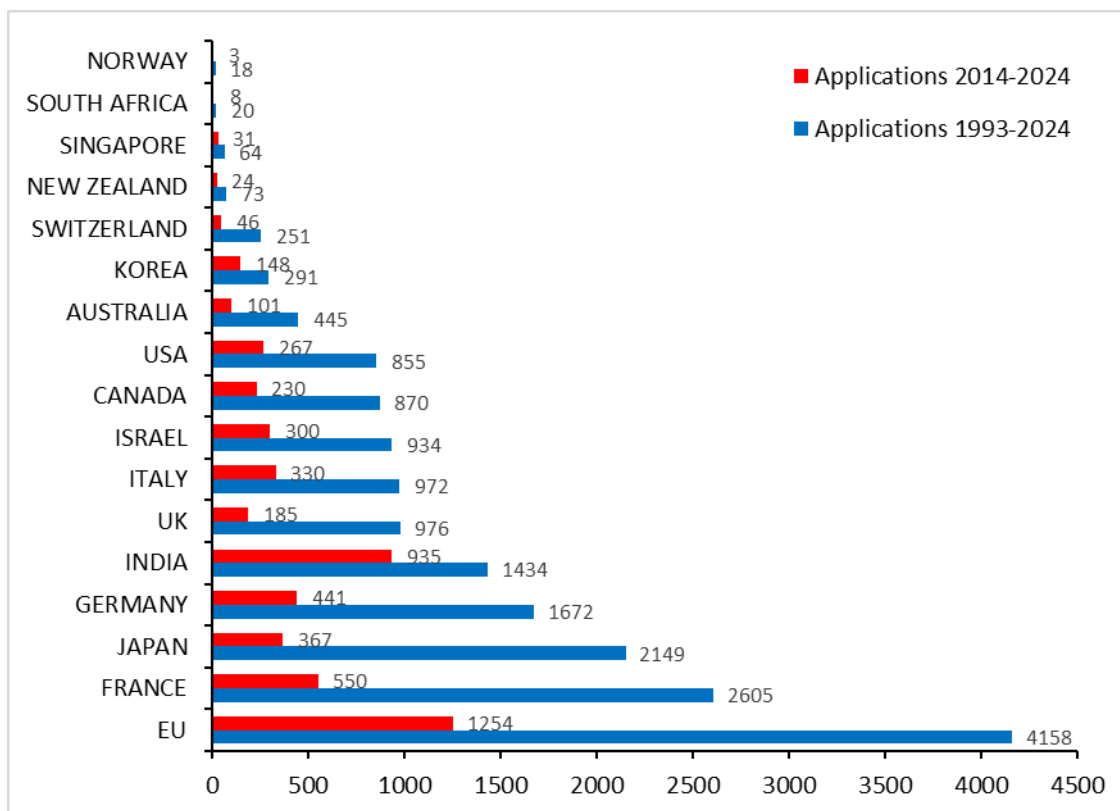


Fig. 4: Number of European Fellowship applicants 1993-2024 and 2014-2024 (upper panel) and Fellowship awardees 1990-2024 and 2014-2024 (lower panel) by nationality

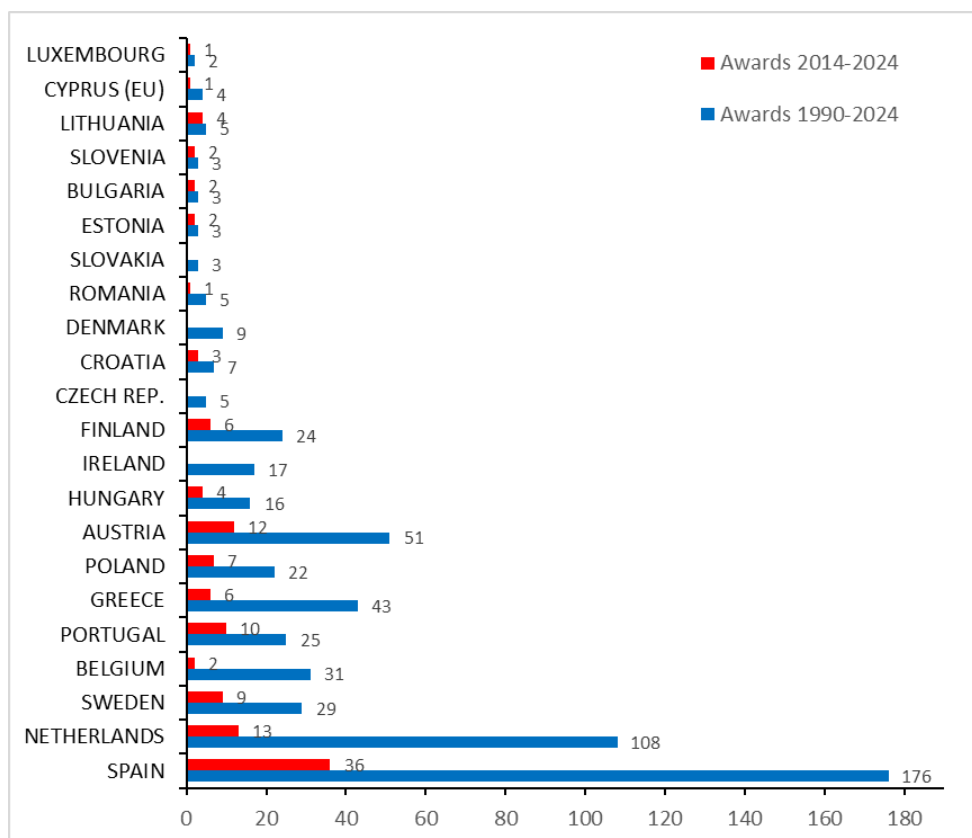
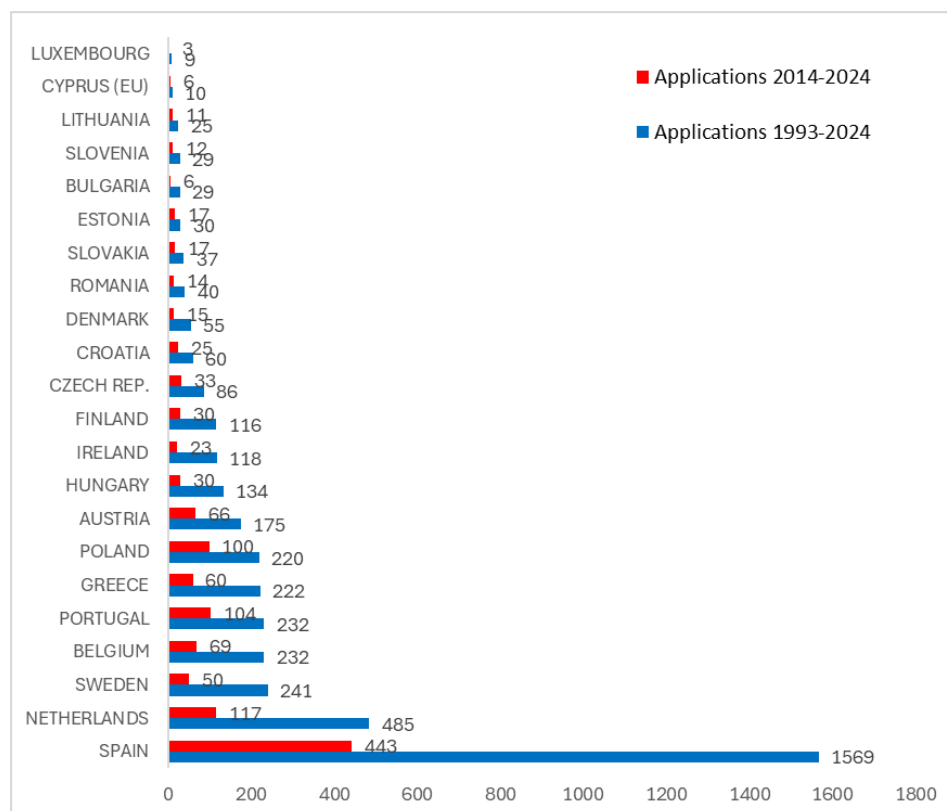


Table IV Applications / Awards listed by HOST COUNTRY
(as approved by the Board in March 2024)

<i>LTF = Long-Term</i> <i>CDF=Cross-Disciplinary</i>	Letters of Intent			Full Proposals			Awards		
	LTF	CDF	TOTAL	LTF	CDF	TOTAL	LTF	CDF	TOTAL
Australia	7	2	9	1	1	2	0	1	1
Canada	24	3	27	3	2	5	2	1	3
EU	75	5	80 (a)	13	1	14 (b)	4	1	5 (c)
France	27	5	32	5	2	7	4	1	5
Germany	38	4	42	13	1	14	10	1	11
India	0	0	0	0	0	0	0	0	0
Israel	5	0	5	0	0	0	0	0	0
Italy	4	1	5	1	0	1	1	0	1
Japan	2	0	2	0	0	0	0	0	0
Korea	0	0	0	0	0	0	0	0	0
New Zealand	3	0	3	0	0	0	0	0	0
Norway	2	0	2	0	0	0	0	0	0
Singapore	6	0	6	0	0	0	0	0	0
South Africa	1	0	1	0	0	0	0	0	0
Switzerland	33	3	36	3	1	4	2	1	3
UK	60	8	68	14	0	14	6	0	6
USA	174	38	212	37	8	45	19	5	24
Other	5	0	5 (a')	1	0	1 (b')	0	0	0
TOTAL	466	69	535	91	16	107	48	11	59

(a) EU host countries in Letters of Intent

LTF: Austria 8, Belgium 6, Croatia 1, Denmark 5, Estonia 1, Finland 3, Ireland 1, The Netherlands 16, Portugal 3, Spain 15, Sweden 16

CDF: Austria 1, The Netherlands 1, Portugal 1, Spain 2

(b) EU host countries in Full Proposals

LTF: Austria 2, Belgium 2, Croatia 1, The Netherlands 3, Portugal 1, Spain 2, Sweden 2

CDF: Austria 1

(c) EU host countries of Awardees

LTF: Austria 1, Belgium 2, Portugal 1

CDF: Austria 1

(a') Other host countries in Letters of Intent

LTF: Brazil 1, China 1, United Arab Emirates 3

(b') Other host countries in Full Proposals

LTF: United Arab Emirates 1

Fig. 5: Fellowship applications 1993-2024 and 2014-2024 (upper panel) and Fellowship awardees 1990-2024 and 2014-2024 (lower panel) per host country

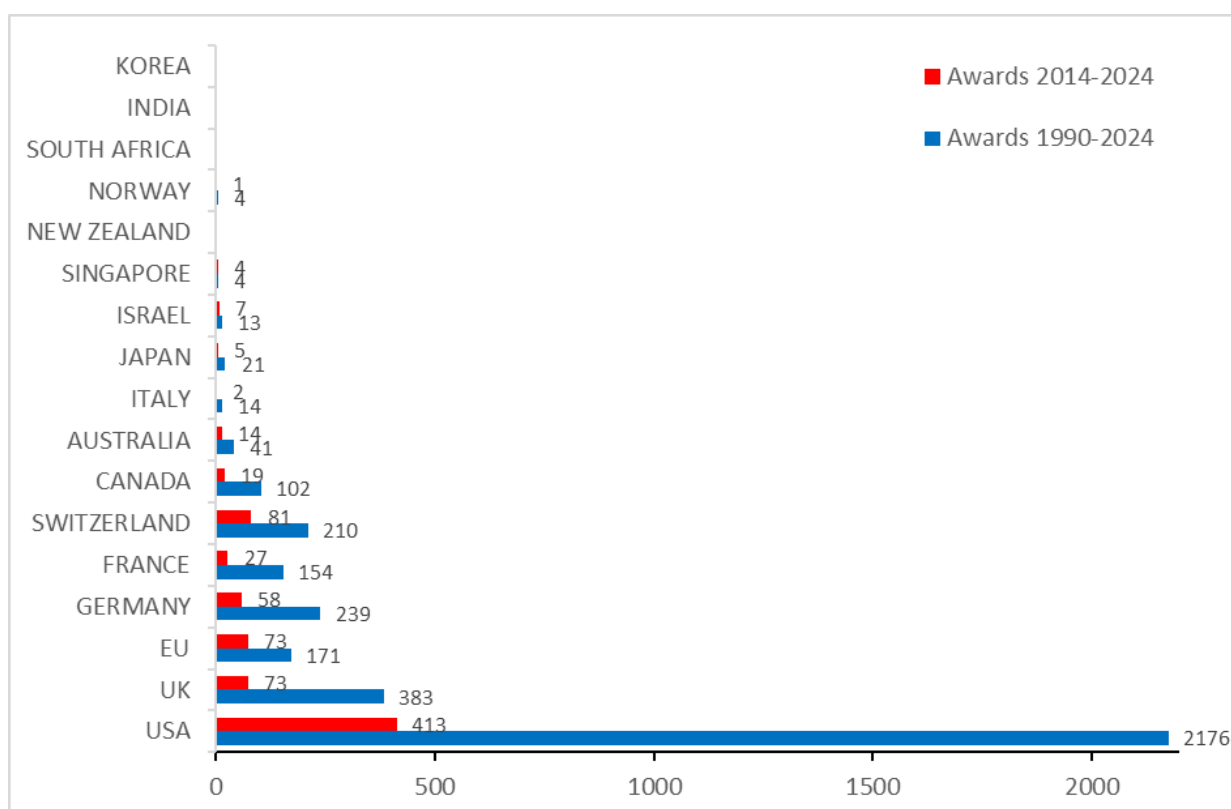
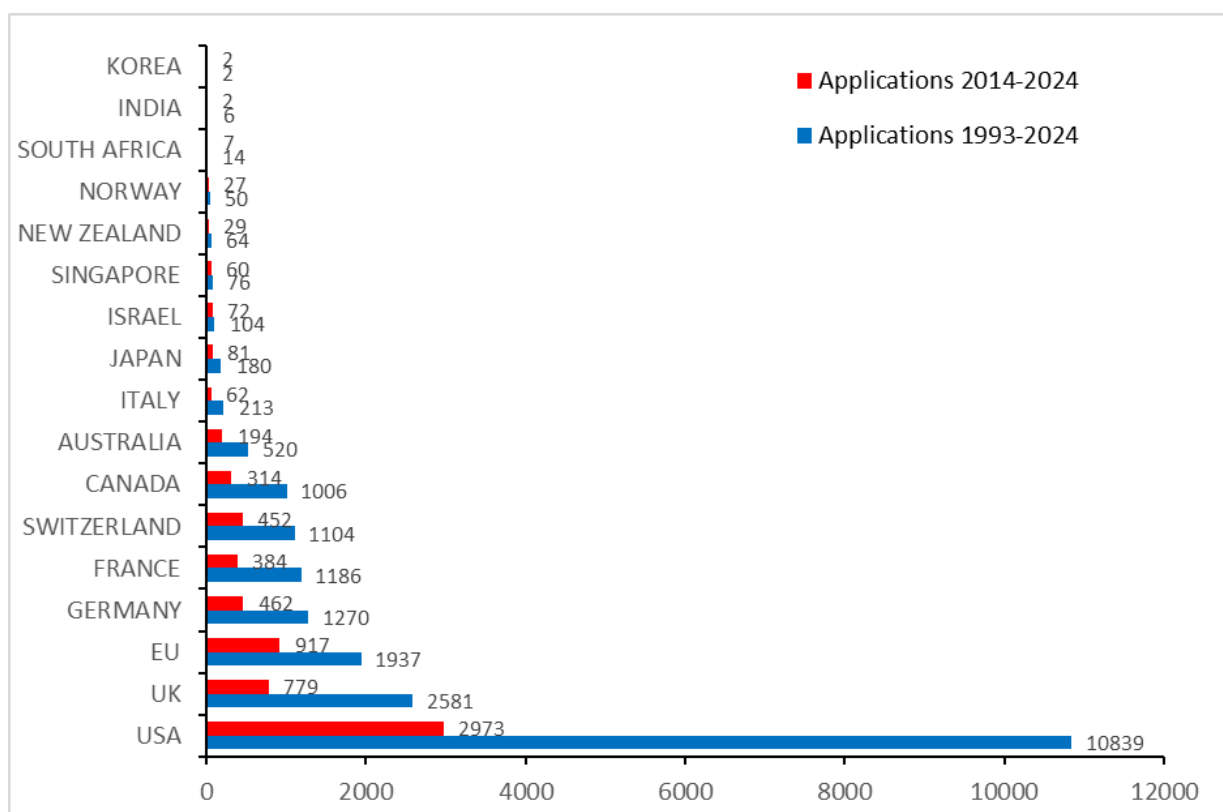


Fig. 6: Fellowship applications 1993-2024 and 2014-2024 (upper panel) and Fellowship awardees 1990-2024 and 2014-2024 (lower panel) per host country in Europe

