

INAF



ISTITUTO NAZIONALE DI ASTROFISICA  
NATIONAL INSTITUTE FOR ASTROPHYSICS

# Giornata della Trasparenza

Istituto Nazionale di Astrofisica - 19 giugno 2014

Giuseppe Malaguti

*La Valutazione della Ricerca*

*Il caso dell'INAF*

# Valutare le P.A.: e l'Astrofisica?

- D. Lgs. 150/2009:
  - valutazione, trasparenza, integrità (art. 13)
- DL 69/2013:
  - ANVUR (art. 60)

An index to quantify an individual's scientific research output

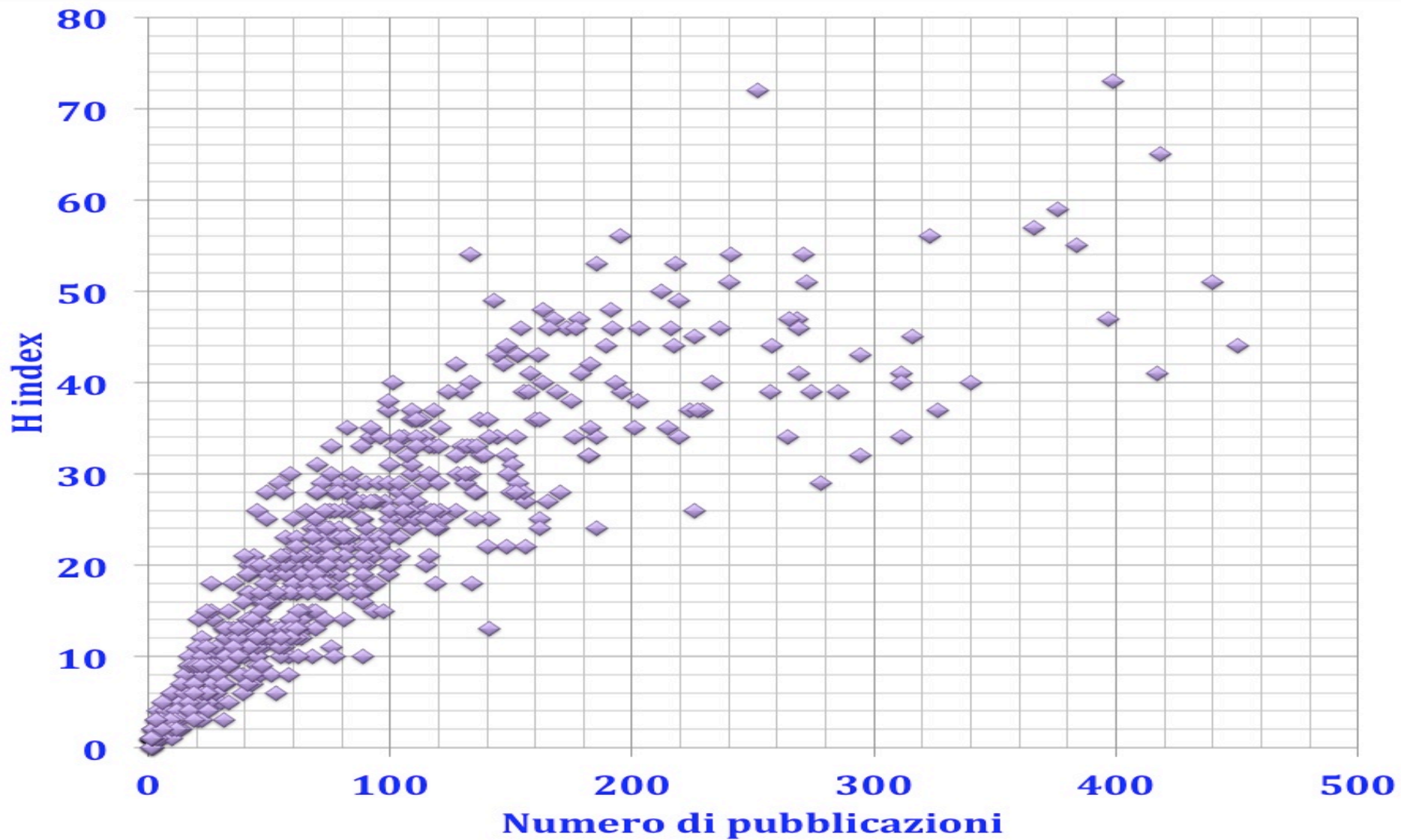
J. E. Hirsch

*Department of Physics, University of California, San Diego*

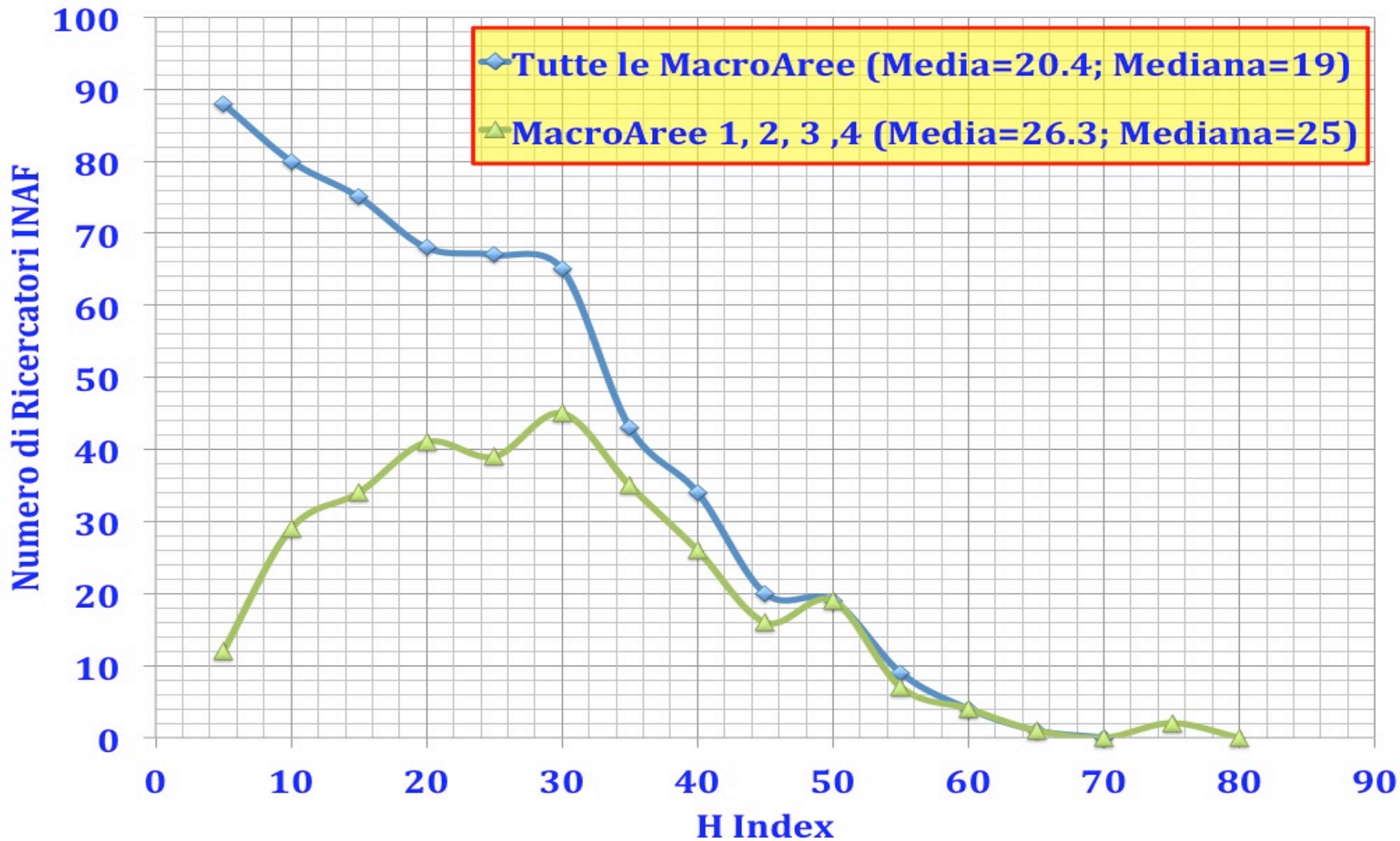
*La Jolla, CA 92093-0319*

I propose the index  $h$ , defined as the number of papers with citation number higher or equal to  $h$ , as a useful index to characterize the scientific output of a researcher.

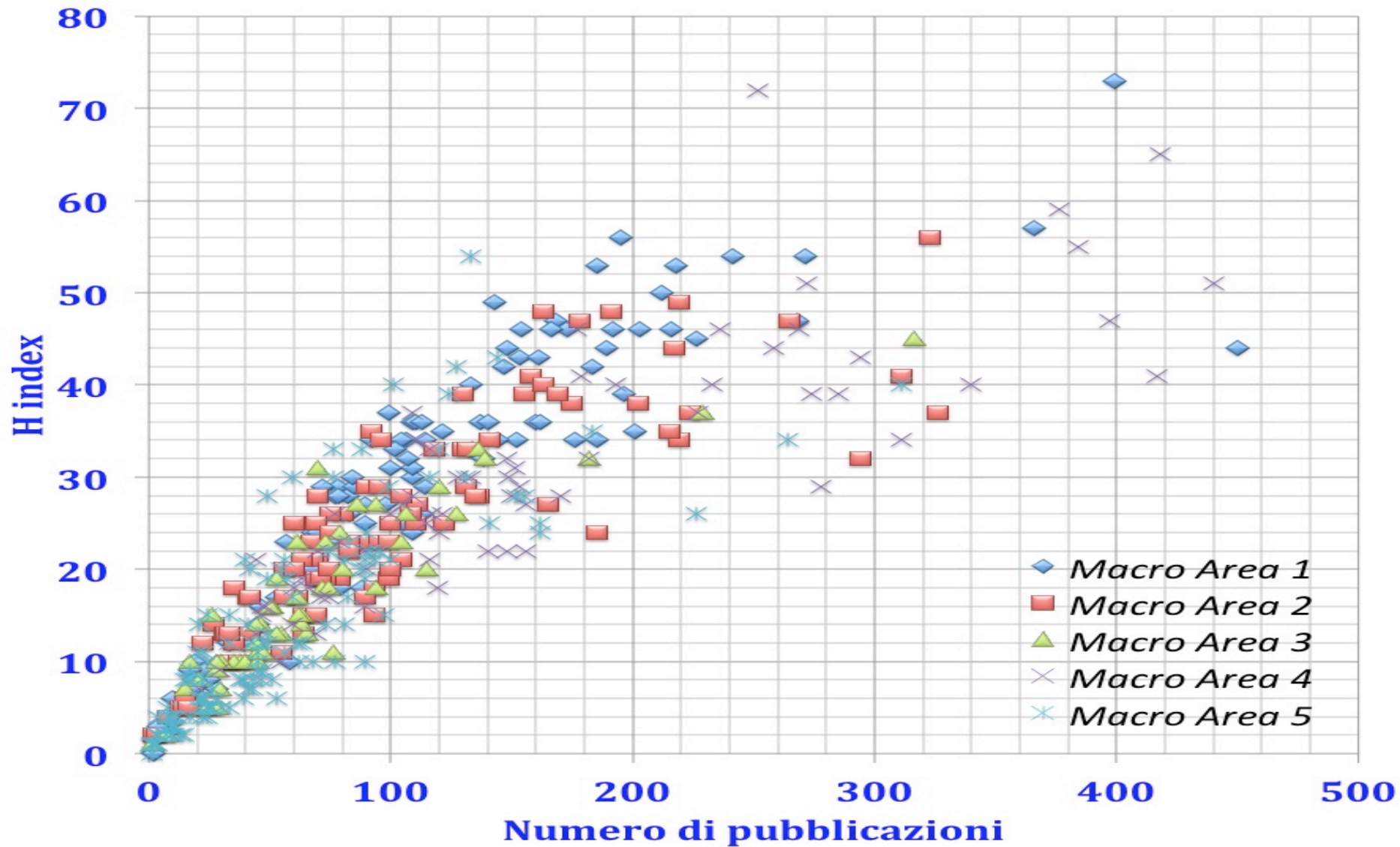
# INAF: H index vs Npubs



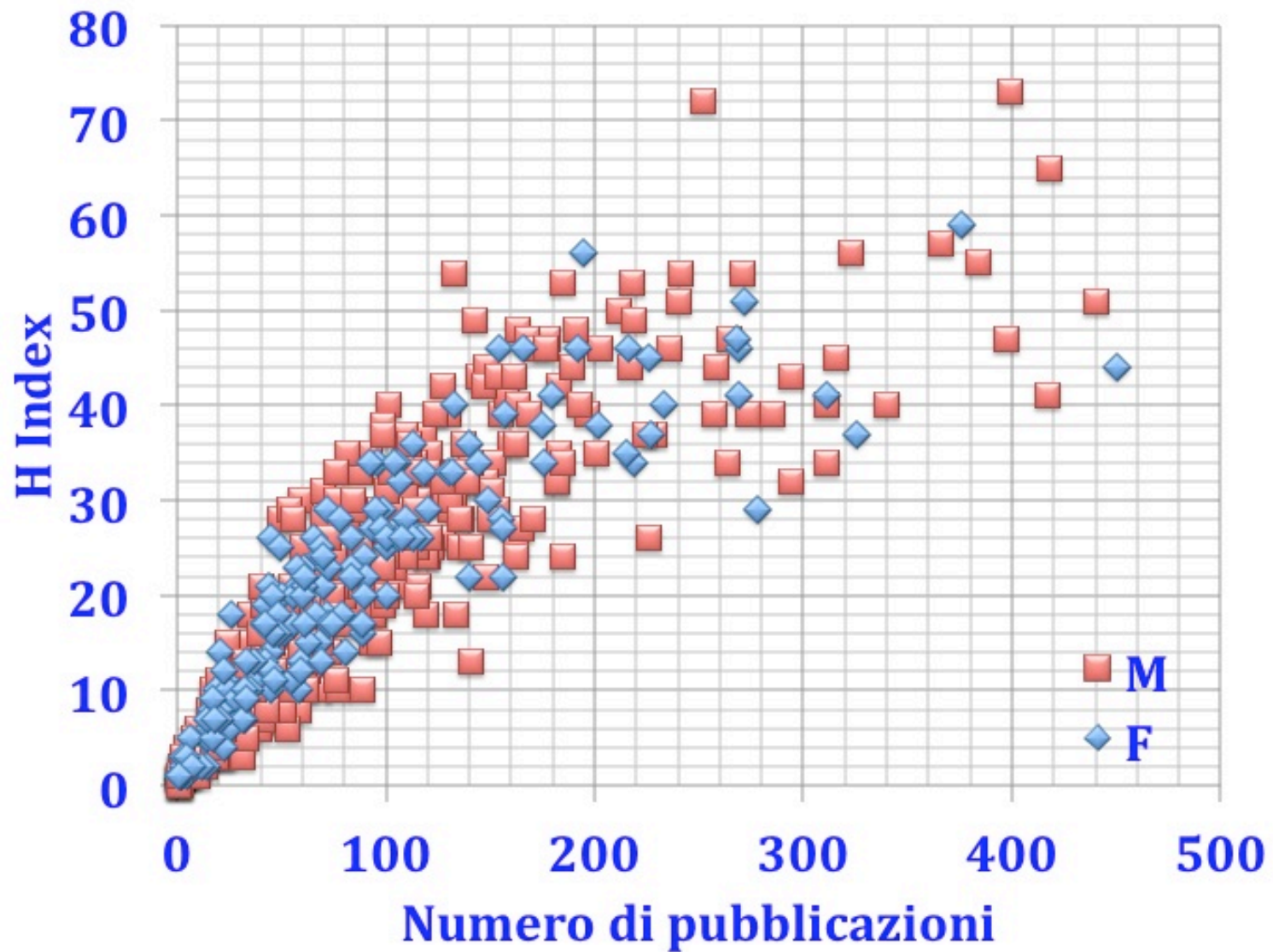
# INAF performance: H index



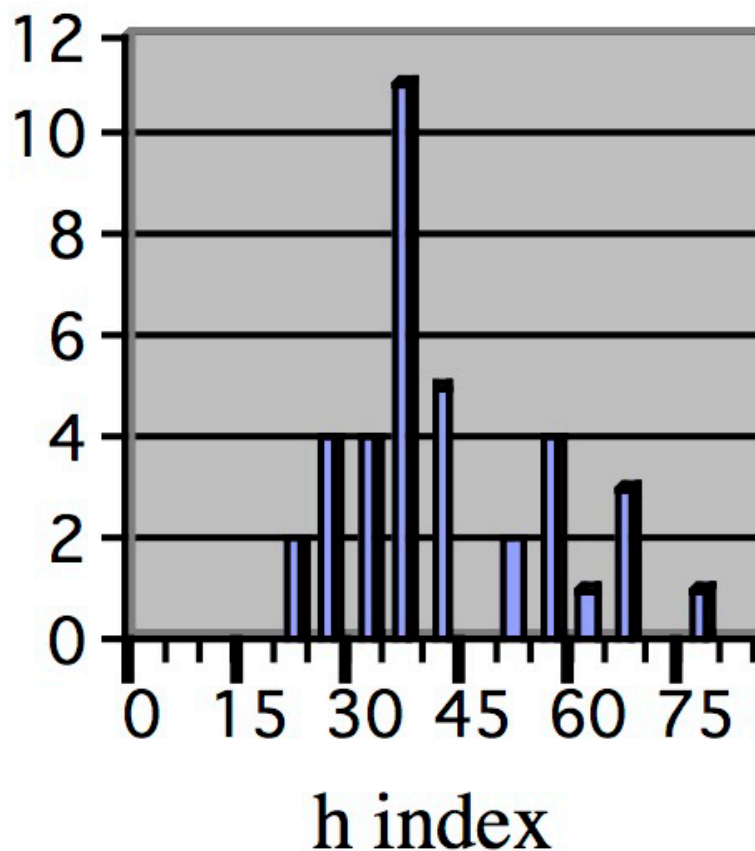
# INAF: H index vs Npubs (2)



# INAF: H index vs Npubs (3)



# L'H index dei premi Nobel

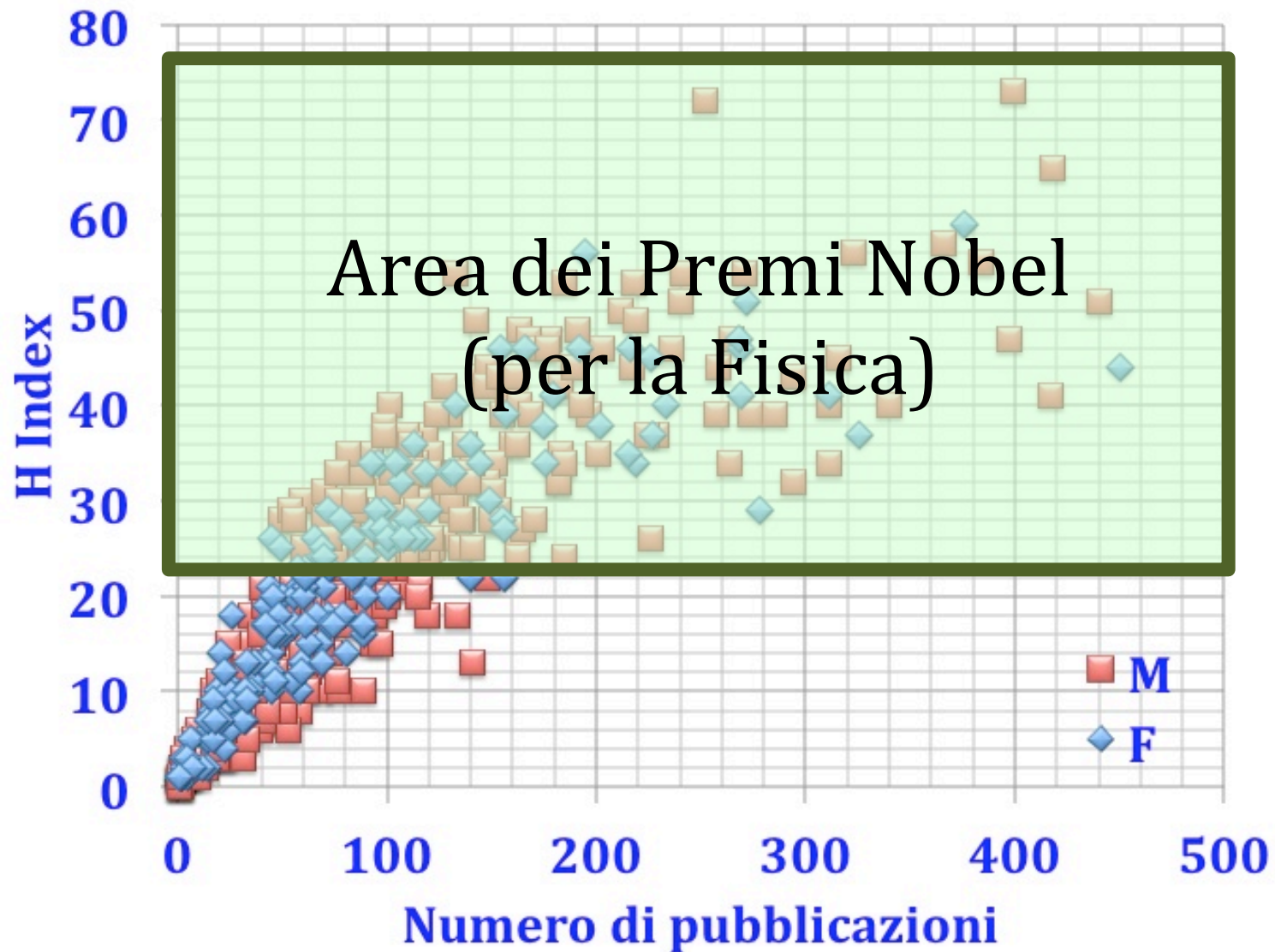


(da Hirsch 2005)

FIG. 2: Histogram giving number of Nobel-prize recipients in Physics in the last 20 years versus their h-index. The peak is at h-index between 35 and 39.











>30 ricercatori INAF

# INAF: H index vs Npubs (3-bis)





# Top ten mondiale produzione scientifica

	Country	Documents	Citable documents	Citations	Self-Citations	Citations per Document	H index
1	 United States	7.063.329	6.672.307	129.540.193	62.480.425	20,45	1.380
2	 China	2.680.395	2.655.272	11.253.119	6.127.507	6,17	385
3	 United Kingdom	1.918.650	1.763.766	31.393.290	7.513.112	18,29	851
4	 Germany	1.782.920	1.704.566	25.848.738	6.852.785	16,16	740
5	 Japan	1.776.473	1.734.289	20.347.377	6.073.934	12,11	635
6	 France	1.283.370	1.229.376	17.870.597	4.151.730	15,60	681
7	 Canada	993.461	946.493	15.696.168	3.050.504	18,50	658
8	 Italy	959.688	909.701	12.719.572	2.976.533	15,26	588
9	 Spain	759.811	715.452	8.688.942	2.212.008	13,89	476
10	 India	750.777	716.232	4.528.302	1.585.248	7,99	301











**“All science areas”**

Dati da:



SCImago  
Journal & Country  
Rank

# Top ten mondiale produzione scientifica

	Country	Documents	Citable documents	Citations	Self-Citations	Citations per Document	H index
1	 United States	502.094	495.333	9.540.380	4.328.326	20,48	559
2	 China	259.686	258.017	1.721.658	984.430	8,62	221
3	 Japan	232.503	230.137	2.701.137	1.028.861	12,07	307
4	 Germany	226.138	223.529	3.577.166	1.190.902	17,13	348
5	 Russian Federation	150.695	149.445	1.210.589	391.798	8,41	248
6	 France	150.333	148.791	2.146.827	612.440	15,56	293
7	 United Kingdom	139.910	137.580	2.327.435	597.257	18,04	334
8	 Italy	103.258	102.026	1.418.835	418.074	15,10	257
9	 India	75.974	71.954	619.084	210.304	10,31	175
10	 South Korea	72.527	71.931	682.117	187.954	11,01	185

**“Physics &  
Astronomy”**

Dati da:

**SJR**

SCImago  
Journal & Country  
Rank

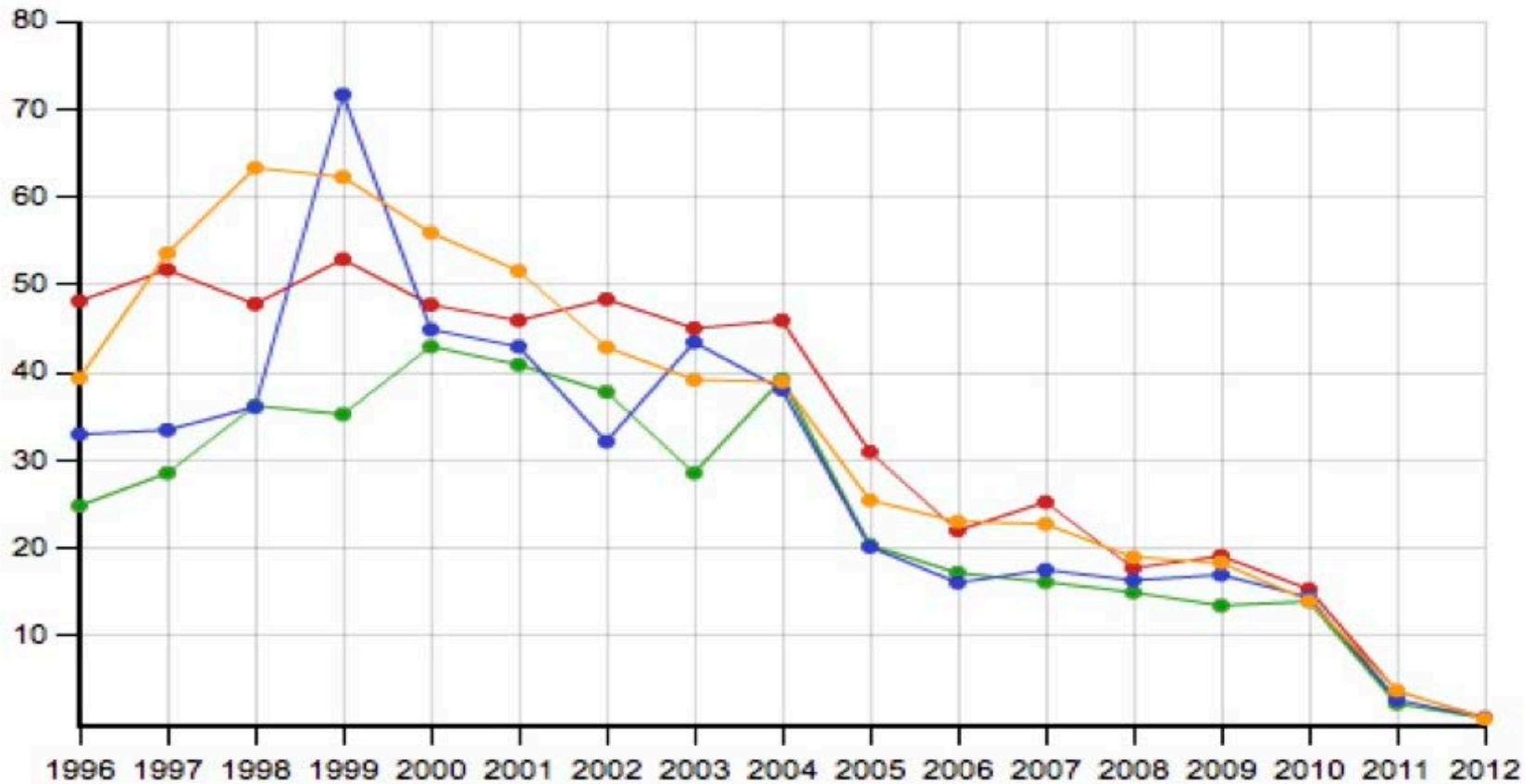
# Top ten mondiale produzione scientifica

Country	R&D/GDP (%)	Documents	Citable documents	Citations	Self-Citations	Citations per Document	H index
1  United States	2.7	43.302	42.594	1.314.486	826.396	31,41	284
2  United Kingdom	1.7	9.331	8.840	269.700	81.372	33,78	175
3  Germany	2.3	9.142	8.913	258.221	76.000	33,43	174
4  Japan	3.7	7.429	7.332	136.632	47.669	22,32	132
5  Italy	1.1	6.964	6.744	149.965	46.873	24,31	135
6  France	1.9	6.652	6.515	150.664	41.710	28,28	136
7  Canada	1.8	4.564	4.466	124.106	23.483	29,48	134
8  Russian Federation		4.518	4.444	42.768	11.434	10,58	79
9  China		4.442	4.380	38.540	13.560	9,81	69
10  Spain		3.942	3.834	83.964	18.736	25,53	102

**“Astronomy & Astrophysics”**

Dati da:  SCImago Journal & Country Rank

# Confronto “europeo” (D, F, UK): citazioni / pubblicazione



Italy



Germany



France



United Kingdom

(c) SCImago Research Group

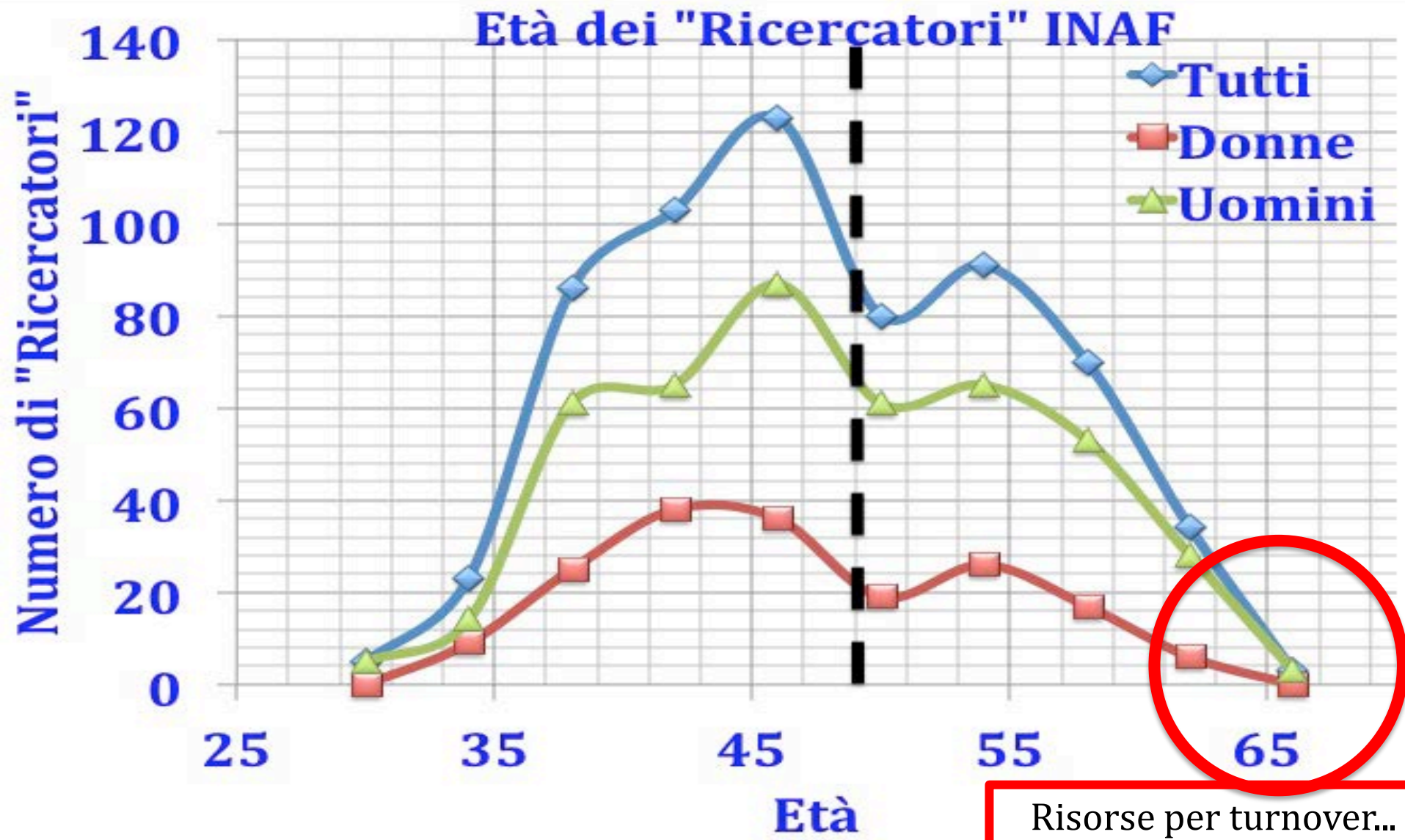
**“Astronomy &  
Astrophysics”**

Dati da:

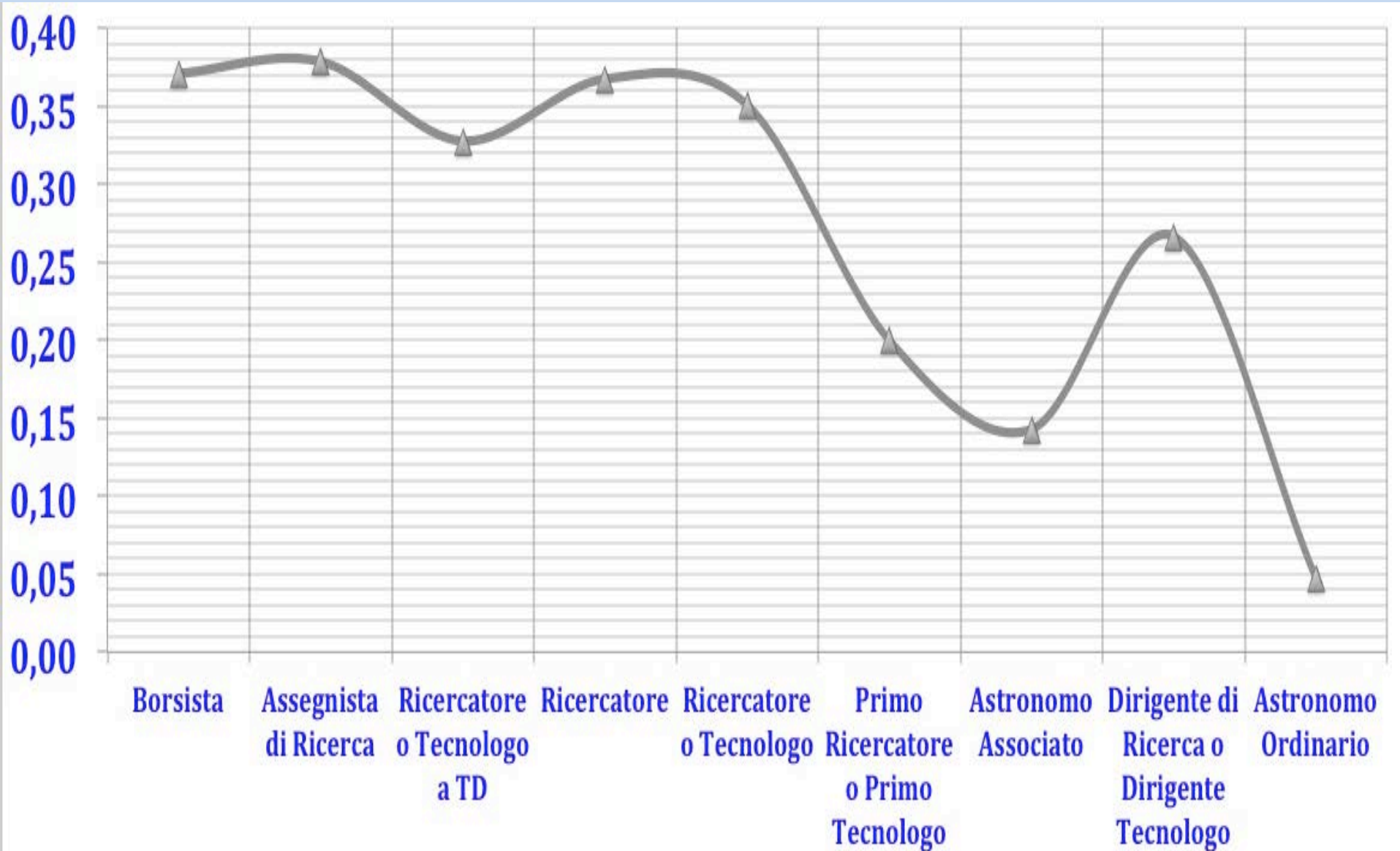
**SJR**

SCImago  
Journal & Country  
Rank

# Le età dei "Ricercatori" INAF...



# Rapporto di genere



# Personale INAF di ricerca

