

# Continuing Professional Development (CPD)

## Annual EIPG Meeting

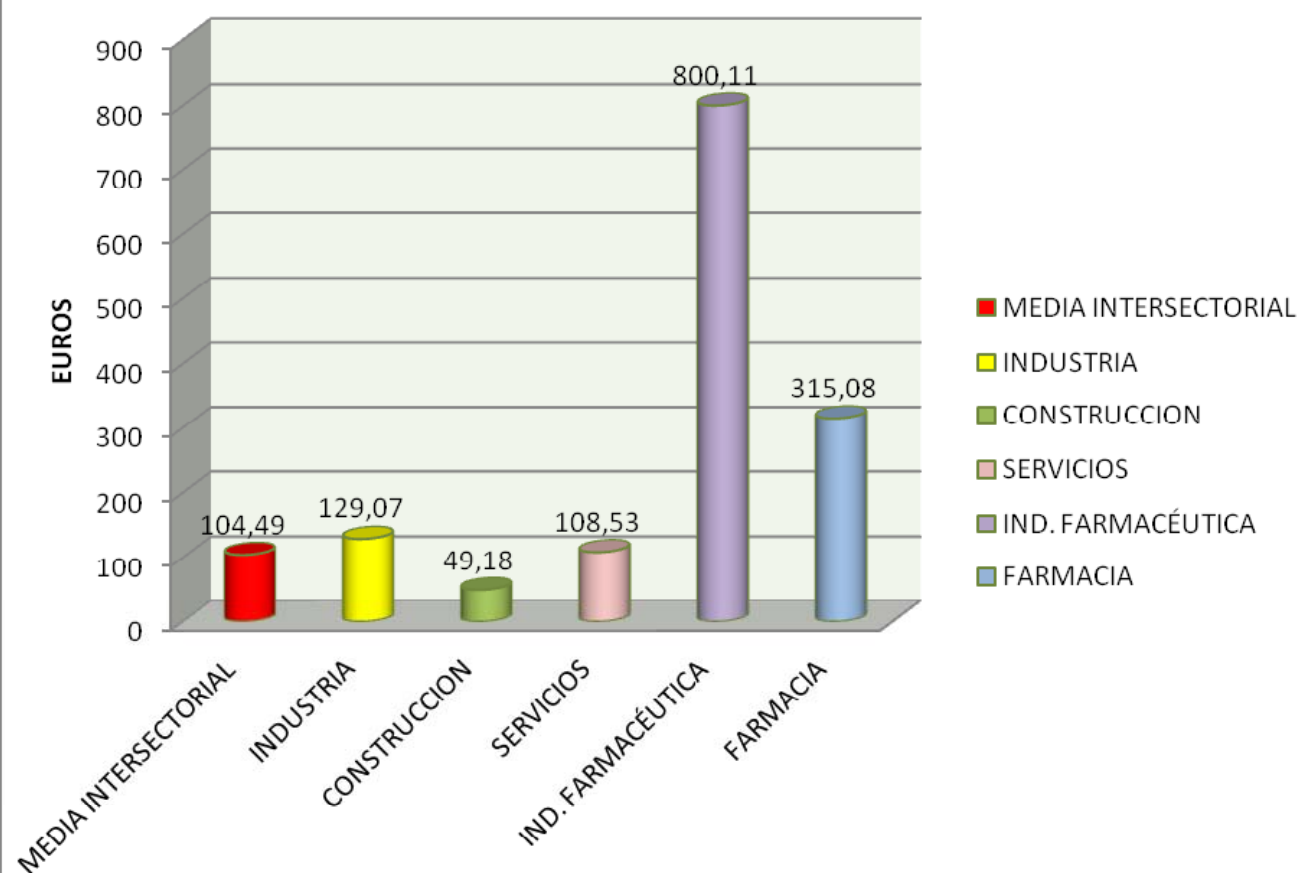
Facultad de Farmacia

Universidad de la Alcalá de Henares.  
Madrid

8th April 2011

Dr. José C. Montilla Canís  
Presidente de la Comisión Nacional de Farmacia  
Industrial y Galénica

## GASTOS EN FORMACION POR SECTORES PRODUCTIVOS EN COMPARACION CON LA INDUSTRIA FARMACÉUTICA Y LA OFICINA DE FARMACIA



## Current academic centers for pharmaceutical industry especiality

Pharmacy Faculty University	Number of students/year
University of Barcelona	16
University of Madrid. Alcalá Henares <sup>(1)</sup>	10
University San Pablo CEU. Madrid	10
University of Navarra	9
TOTAL NUMBER OF STUDENTS	44 + 2

(1): Additionally 2 positions for pharmacist in the Army

## Historical Evolution of F.I.R. Pharmaceutical Especialities

		2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
<b>Farmacia Hospitalaria</b>		103	110	114	118	124	129	135	147	155	148
<b>F. Industrial y Galénica</b>		Sin oferta	18	18	31	42	44	44	44	44	44
<b>Análisis Clínicos</b>	<b>F</b>	36	26	27	34	42	44	35	33	44	41
	<b>B</b>	7	7	4	9	6	4	8	11	8	8
	<b>M</b>	37	47	49	40	34	36	34	37	28	31
	<b>Q</b>	7	4	5	8	7	3	11	9	11	8
<b>Bioquímica Clínica</b>	<b>F</b>	16	15	10	11	19	19	17	18	15	19
	<b>B</b>	8	6	7	11	7	7	12	13	12	9
	<b>M</b>	17	15	21	27	22	22	20	16	15	14
	<b>Q</b>	8	9	6	18	13	13	11	11	13	9
<b>Inmunología</b>	<b>F</b>	Sin oferta	Sin oferta	Sin oferta	1	1	1	4	2	5	7
	<b>B</b>	12	10	11	12	11	11	11	11	12	15
	<b>M</b>	14	14	13	13	13	13	13	15	13	7
<b>Microbiología y Parasitología</b>	<b>F</b>	30	22	21	18	19	19	21	31	35	34
	<b>B</b>	4	2	2	2	5	5	7	6	6	9
	<b>M</b>	42	51	53	56	54	54	47	43	36	37
	<b>Q</b>	2	2	2	2	Sin oferta	Sin oferta	1	2	3	2
<b>Radiofarmacia</b>	<b>F</b>	4	6	5	5	6	6	5	6	5	5
	<b>Q</b>	1	Sin oferta	2	1	2	2	4	2	4	1

Fuente: Ministerio de Sanidad.

**F:** Farmacéuticos. **B:** Biólogos. **M:** Médicos. **Q:** Químicos.

## Evolution academic centers for pharmaceutical industry especiality

PHARMACY FACULTITIES.						
YEAR	University of Barcelona	University of Navarra	University of Alcalá de Henares	University San Pablo CEU	TOTAL OFFERED POSITIONS	% ANNUAL GROWTH
2003-2004	10	6			16	---
2004-2005	15	6			21	31,25%
2005-2006	15	9	10		34	61,90%
2006-2007	15	9	10	10	44	29,41%
2007-2008	15	9	10	10	44	---
2008-2009	15	9	10	10	44	---
2009-2010	15	9	10*	10	44	---
2010-2011	15	9	10*	10	44	---

(\*): Additionally 2 positions for pharmacist in the Army

## Industrial Pharmacy Especiality. Current versus New Programme

	<b>Current programme</b>	<b>New Programme</b>
<b>Duration</b>	2 years	2 years
<b>Access</b>	FIR	FIR
<b>Theory Step</b>	400 hr	300 hr
<b>Practical Pilot Plant Stage</b>	1300 hr	900 hr
<b>Clinical – Hospital Stage</b>	-	3 months
<b>Pharmaceutical Industry Stage</b>	6 months	12 months

## Industrial Pharmacy post graduate specialist training layout

[illegible]

## New Programme Industrial Pharmacy Speciality

- 1.Theoretical programme stage: includes the theoretically knowledge and skills of the especiality with a 9 months duration and a minimum of 300 hours.
- 2.Practical in Pilot Plant Stage: Practices in Pilot Plant, resolution of practical case studies, seminars and workshops. It is performed at the same time as the theoretical stage of the programme with a minimum of 900 hr
- 3.Clinical / Hospital Stage: It includes stages in Hospital Clinical Services in which clinical trials are performed making clinical trials monitoring and pharmacosurveillance. Will take place after the theoretical programme stage with a minimum of 300 hr duration (3 months). This step can be performed at the same time as the theoretically stage
- 4.Pharmaceutical Industry Stage. Includes skills on leadership, management, educational, training and development, evaluation and innovation. This stage is a full time period during 12 months during the standard worktime.



## New Programme Industrial Pharmacy Speciality

The field in which the specialist will be capable includes skills and competencies applied in:

1. Human Use Pharmaceutical Industry
2. Veterinary Use Pharmaceutical Industry
3. Medicinal Plants Pharmaceutical Industry
4. Education Centers and Research Centers of Industrial Pharmacy
5. Clinical Research Centers
6. Pharmacosurveillance Departments
7. Biotech Pharmaceutical Industry
8. Manufacturing Centers and Development for Army
9. Medical Information
10. Official Health Centers of the Central Government and Autonomous Territories

## Other Industrial Pharmacy Studies and Educational Centers

- European School of Pharmaestudies (Instituto EPHOS)
- Industrial Pharmacy Course. Pharmacy University School Complutense (1 year)
- Industrial Pharmacy Course, Pharmacy University of Salamanca
- Industrial Pharmacy and Manufacturing Courses. CESIF
- Instituto de Empresa
- ESAME
- ESADE
- Several Professional Societies specialist courses:
  - A.E.F.I.
  - Consejo General de Colegios Oficiales de Farmacéuticos
  - Colegio Oficial de Farmacéuticos de Madrid