

Patent Tracker

Infant nutrition

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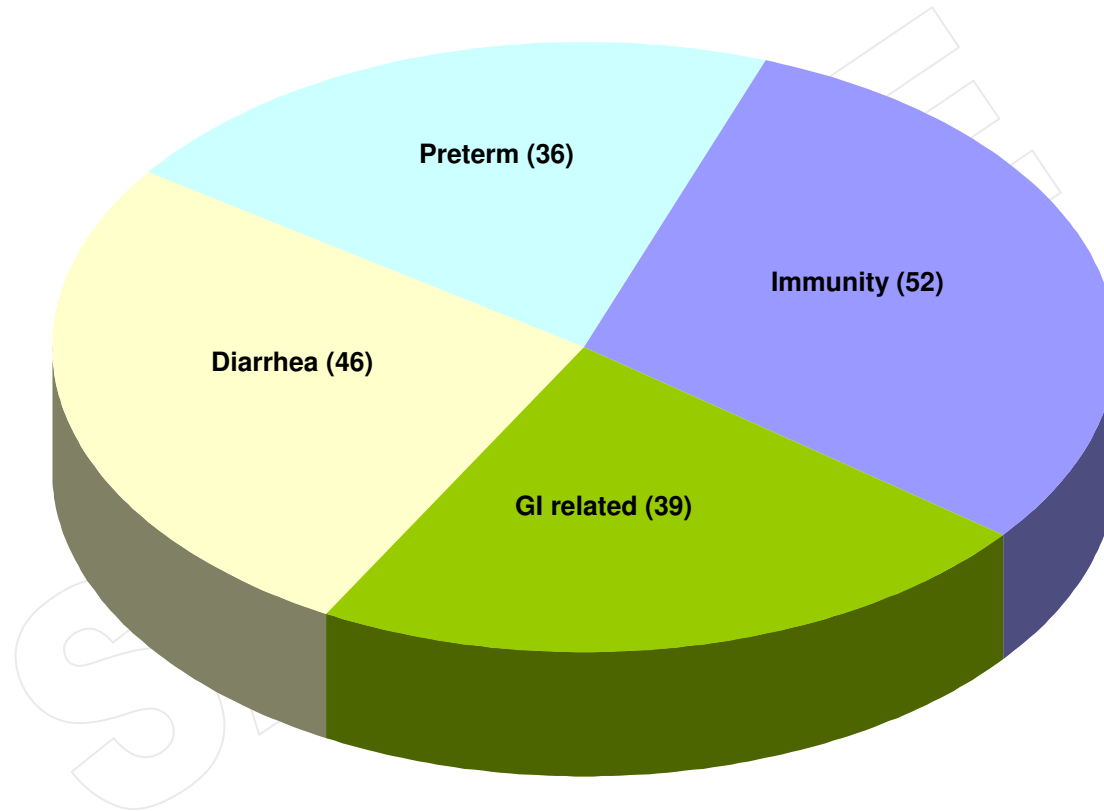


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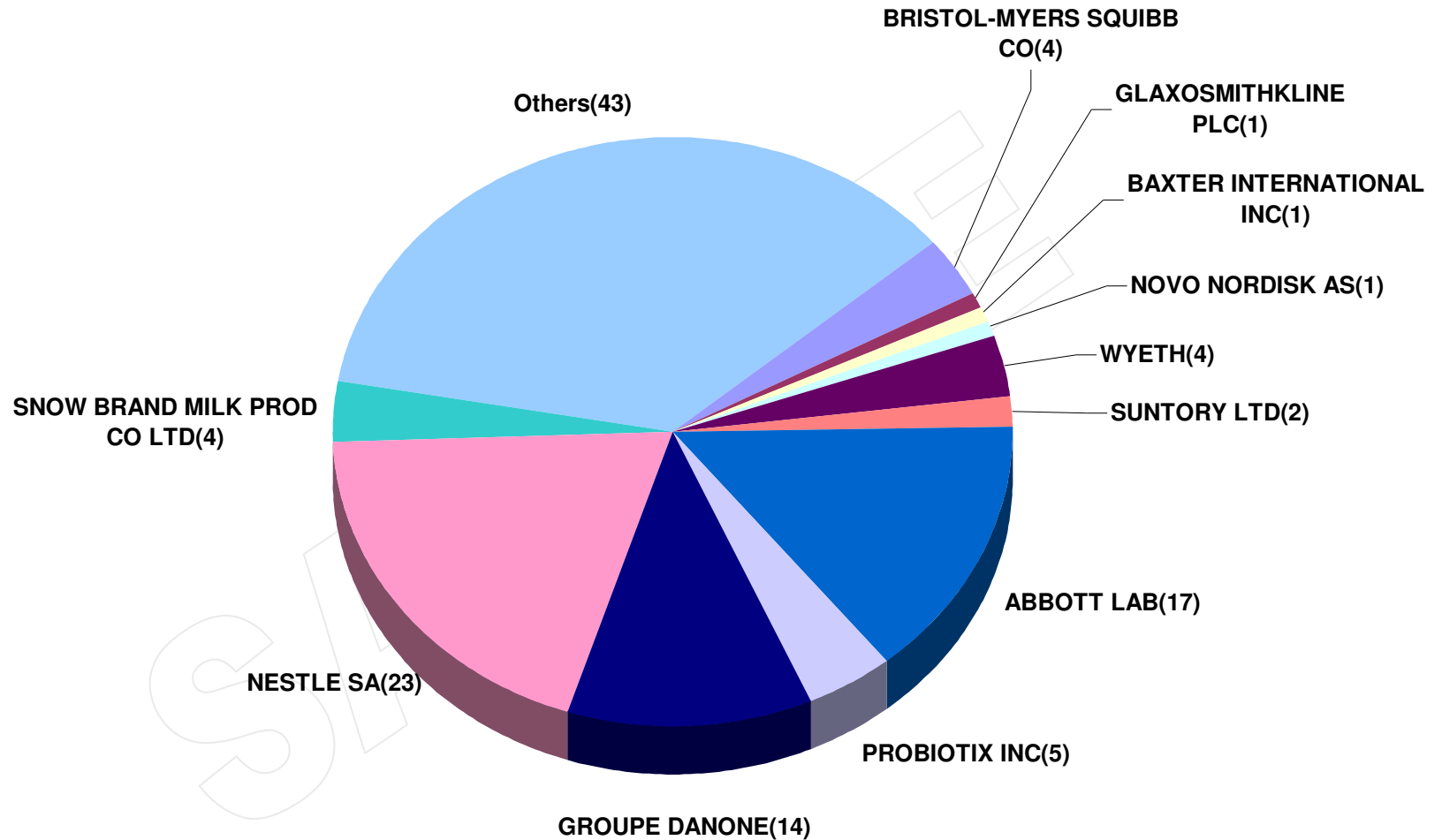
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Overall distribution of records



Infant nutrition –Assignee-wise distribution



Others include University of Virginia, Morinaga Milk Industry Co, Univ Technologies, Stryker Corp., Croda Int., Vesta Med, Oklahoma Medical Research Foundation, Boots Co, MJN Restructuring Hold Co. etc

Focus of top filers

Assignee	Focus
Nestle	Giardiasis, Synbiotics, Probiotics
Abbott	Infantile colic, Nucleotide equivalents
Groupe Danone	Oligosaccharides, Synbiotics
Wyeth	Short bowel syndrome, Fat compositions

Research Collaborations*

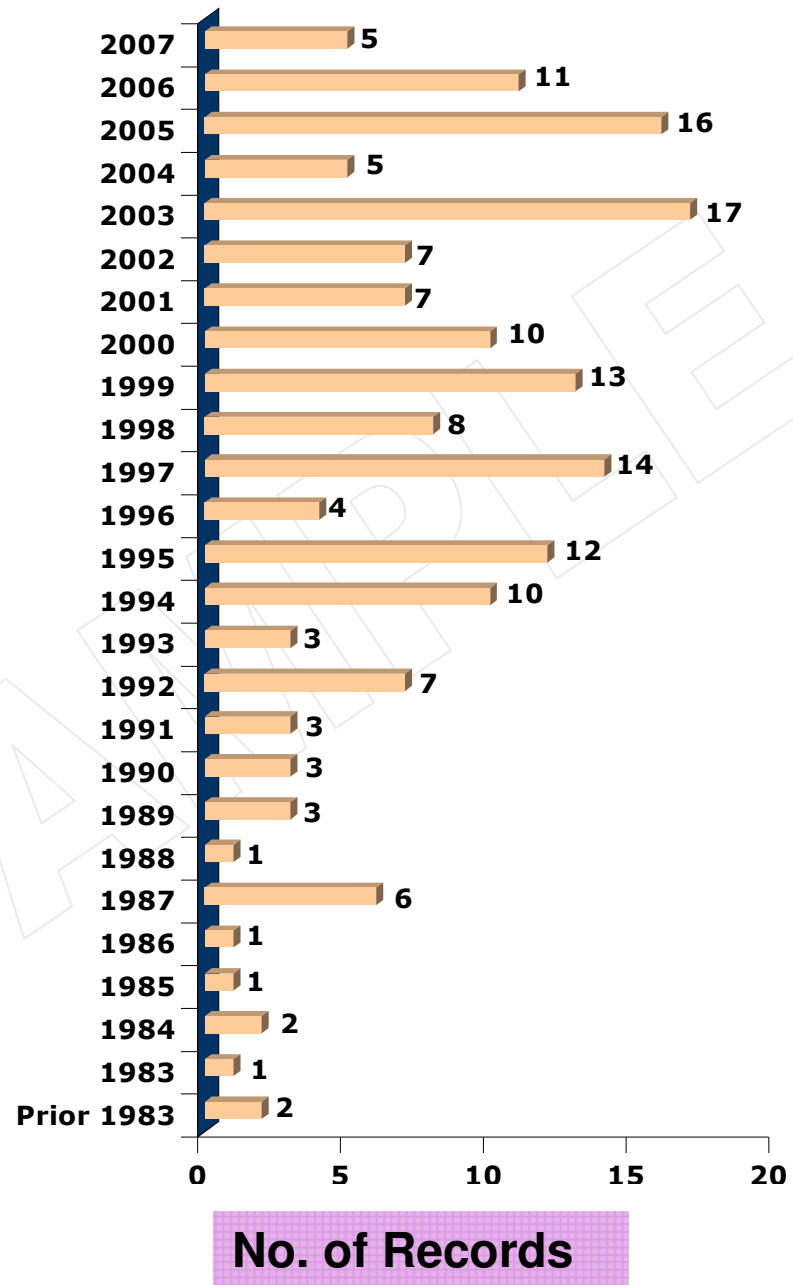
Assignees	No. of Records	Patent Focus
ABBOTT LAB; UNIVERSITY OF OKLAHOMA	1	Inhibition of human rotavirus infection
SUNTORY LTD; BIZEN CHEMICAL Co. LTD	1	Premature infants
CANCER RES FUND OF CONTRACOSTA; JOHN HOPKINS UNIVERSITY	1	Anti-diarrheic, Anti-rotaviral

* As determined from assignees to patents

Universities/ Research institutes

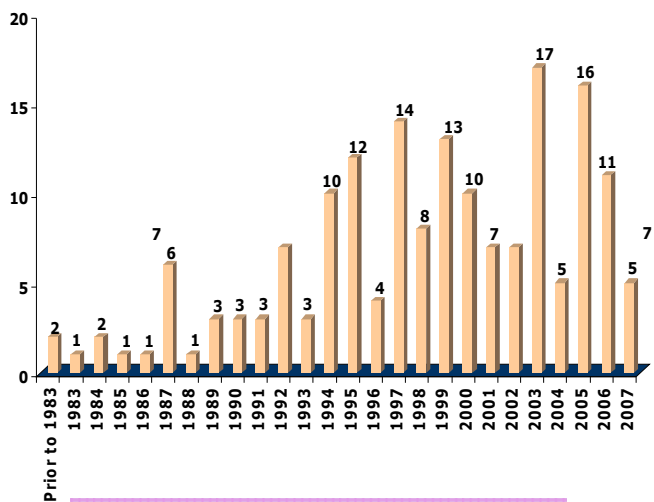
University / Research institute	No. of Records	Patent Focus
National Institute of Virology	2	Rotavirus infection
New England Med Center Inc.	2	IgA protease types, active lactoferrin
University of Virginia	1	Premature infants
Oklahoma Medical Research Foundation	1	Premature infants
Beth Israel Deaconess Hospital	1	Improved digestion and intestinal absorption
Children's Hosp. Medical Center	1	Necrotizing Enterocolitis in premature infants

Filing Trends Among Major Players

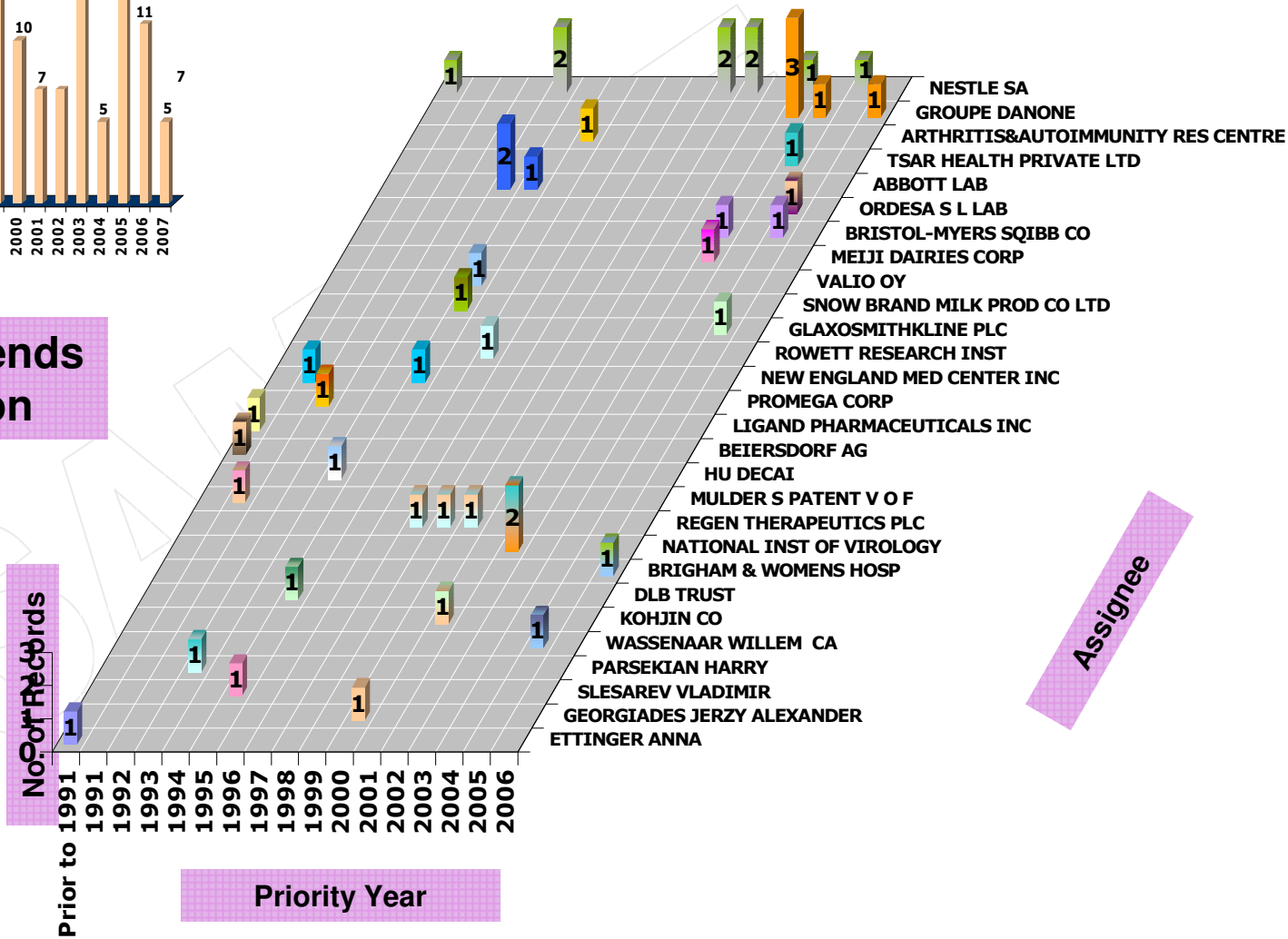


Filing trends

- Nestle has been filing patents consistently in this area
- Danone has been filing patents consistently since 2003
- Many companies and research hospitals appear to have initiated research on



Overall filing trends in infant nutrition



Assignee

Filing trends in infant immunity

Citation Velocity

Patent No.	Assignee	Title	Year Issued	Total No. of Citations	Cited by self	Cited by Other Major Assignees	Avg Cites by Year
WO2006108824	NESTLE SA	Infant formula with probiotics	2006	9	7	Bristol-Myers Squibb Company (2)	3.3
EP484266	PULEVA UNION INDUSTRIAL Y AGRO-GANADERA	Fat mixture for infant and adult nutrition	1992	50	1	Abbott Lab (7), Friesland Brands (4), N.V. Nutricia (10), Nestle (8)	2.9
US4753926	GLAXOSMITHKLINE PLC	Infant foods	1988	59	Nil	Abbott Lab (7), South Alabama Medical Science Foundation (7), Bioresearch, Inc. (6)	2.8
US5902578	ABBOTT LAB	Method and formula for the prevention of diarrhea	1999	27	Nil	Groupe Danone (4), Nestle (4), Otsuka Pharmaceutical Co Ltd (2), Windlove Bio Industries	2.7
US5631271	VESTA MED PTY LTD	Methods and preparations for the treatment and prophylaxis of metabolic disturbances	1997	30	Nil	Medicure, Inc. (23), N.V. Nutricia, (3), Merrill Lynch Capital Canada Inc. (2)	2.5
US6132710	PROBIOTIX INC	Preventing/treating neonatal NEC by administering lactobacillus salivarius and lactobacillus plantarum or a combination thereof	2000	19	Nil	Agtech Products, Inc. (4), Nestle (2), University of Maryland, Baltimore (2)	2.2
US5700590	ABBOTT LAB	Enteral formula with ribonucleotides	1997	24	3	N.V. Nutricia (7), CAN Technologies (4), US Dept of Health and Human Services (3)	2.1

Recent published literature

- Immunologic properties differ in preterm infants fed olive oil vs. soy-based lipid emulsions during parenteral nutrition.
- Carbohydrate intake is the main determinant of growth in infants born <33 weeks gestation when protein intake is adequate.
- Probiotic *Escherichia coli* Nissle 1917 versus placebo for treating diarrhea of greater than 4 days duration in infants and toddlers.
- The effect of early nutritional supplementation with a mixture of probiotic, prebiotic, fiber and micronutrients in infants with acute diarrhea in Indonesia.
- Fish Oil Supplementation Modulates Immune function in healthy infants.
- Effect of providing a formula supplemented with long-chain polyunsaturated fatty acids on immunity in full-term neonates.
- Natural Evolution of Infantile Regurgitation versus the Efficacy of Thickened Formula.
- Oral probiotics prevent necrotizing enterocolitis in very low birth weight preterm infants: a multicenter, randomized, controlled trial.