



SURVEY RESULTS

## ProSafe Delphi Forum - final round

Is risk management on pace with innovation for uses of nanomaterials? Follow up questions from the forum so far.

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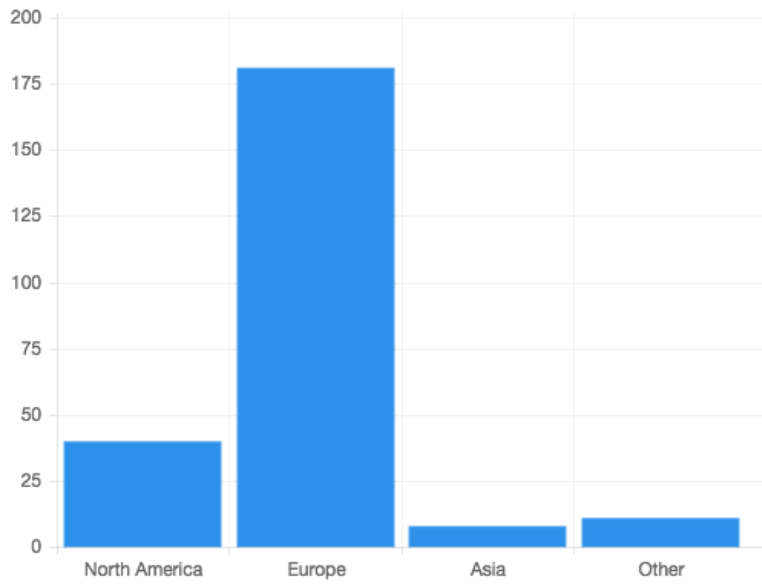
URL: <https://scipinion.com/surveys/84/report.pdf?debug=true>

**SECTION: SECTION 1: INFORMATION ABOUT YOURSELF**

ID #2119 (<https://scipinion.com/surveys/84/results/2119>)

What region are you from?

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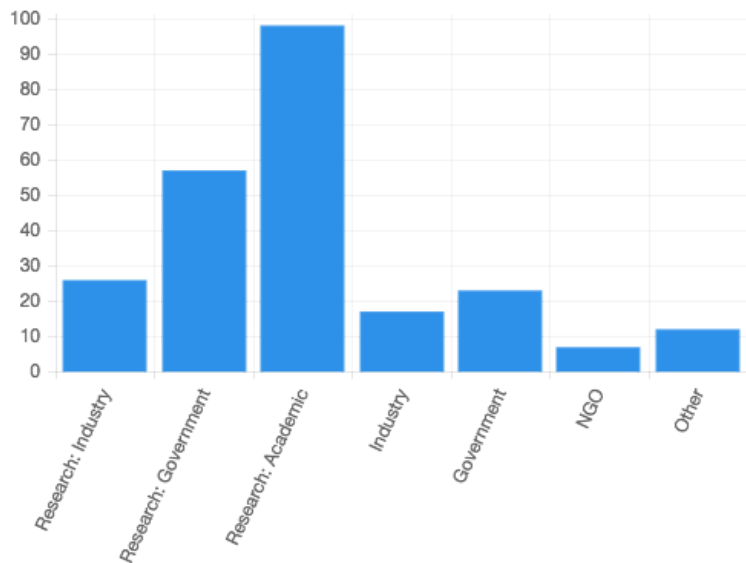
Legend

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answers: 240

skips: 0

What sector do you work in?



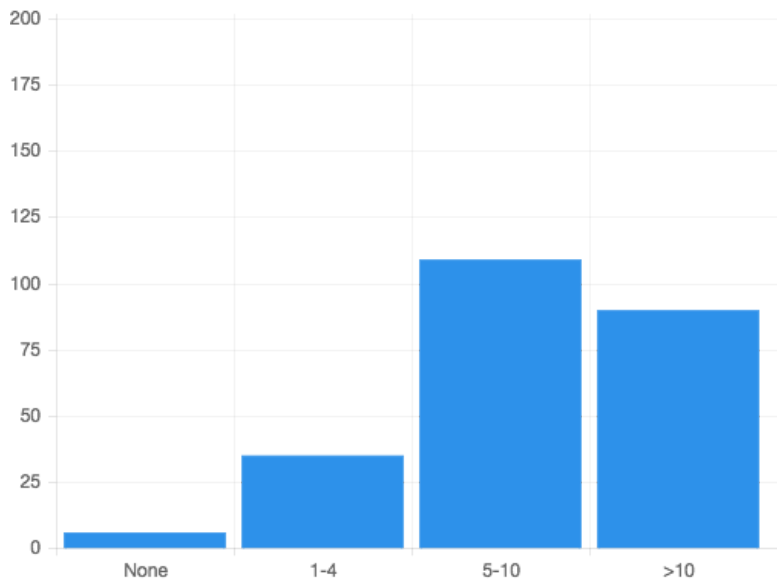
Legend

answers: 240

skips: 0

ID #2121 (<https://scipinion.com/surveys/84/results/2121>)

How many years' experience do you have working in the field of nanotechnology?



Legend

answers: 240

skips: 0

**SECTION: SECTION 2: CLARIFICATION OF RESPONSES IN THE FIRST ROUND**ID #2127 (<https://scipinion.com/surveys/84/results/2127>)

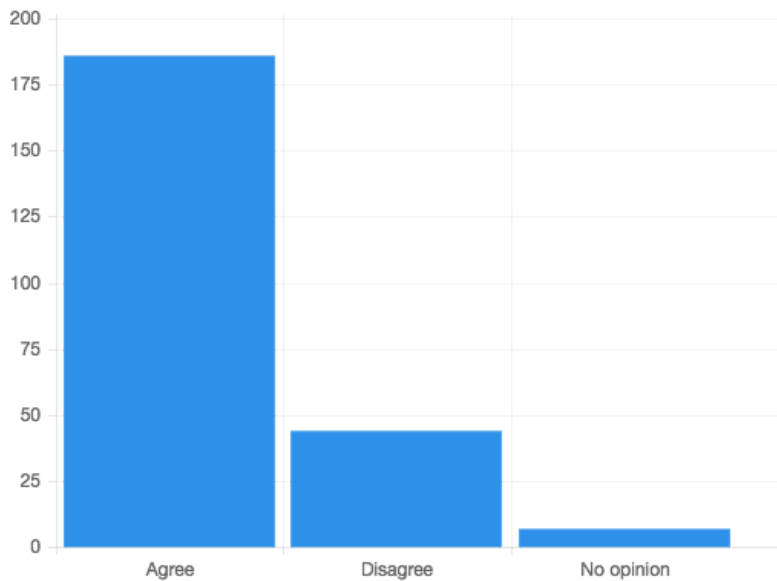
Do you agree that Safe By Design practices are already in place for medical, food additive, or food packaging uses of nanomaterials?

Is Safe by Design in place for consumer use of nanomaterials in:	Agree it is in place	Agree but needs more attention	Disagree - it is not in place	No opinion	Total
Food additives	7.98% 19	39.50% 94	39.92% 95	12.61% 30	238
Food packaging	11.86% 28	40.68% 96	31.78% 75	15.68% 37	236
Medical applications	28.81% 68	41.53% 98	16.95% 40	12.71% 30	236

ID #2128 (<https://scipinion.com/surveys/84/results/2128>)

Do you agree that we have a greater need to develop exposure methods than toxicology methods for nanomaterials?

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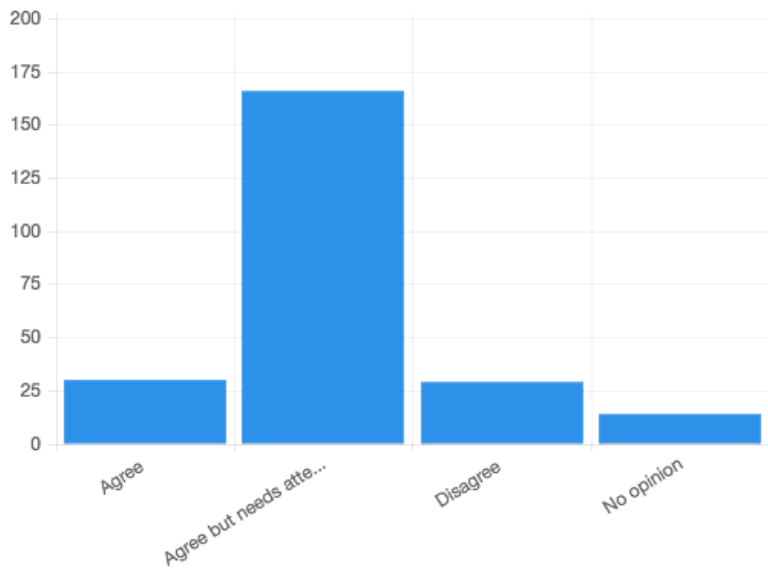
Legend

answers: 237

skips: 3

ID #2129 (<https://scipinion.com/surveys/84/results/2129>)

Do you agree that occupational exposures to nanomaterials during manufacturing can be controlled with existing risk management methods?



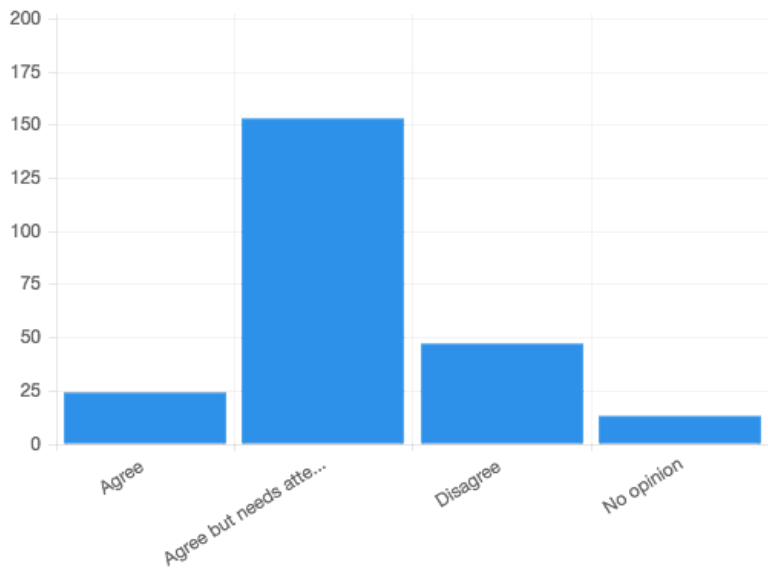
Legend

answers: 239

skips: 1

ID #2130 (<https://scipinion.com/surveys/84/results/2130>)

Do you agree that occupational exposures to nanomaterials during professional use can be controlled with existing risk management methods?



Legend

answers: 237

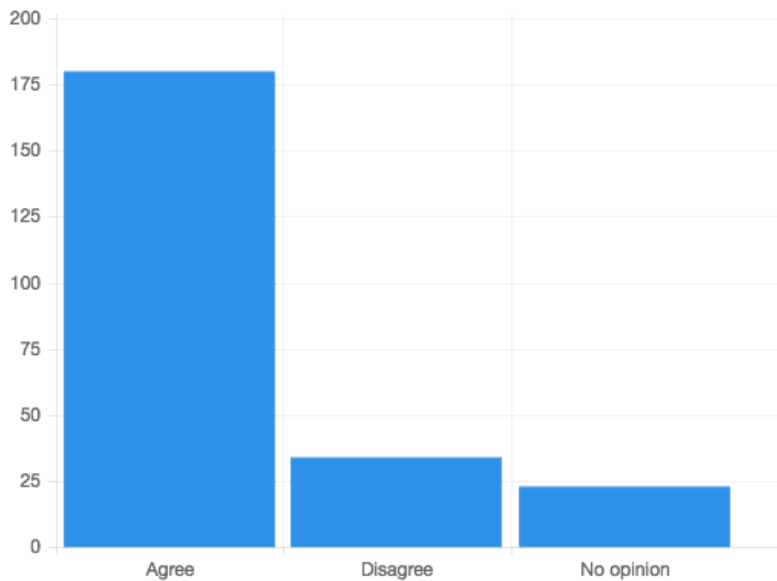
skips: 3



ID #2131 (<https://scipinion.com/surveys/84/results/2131>)

Do you agree that policies to facilitate safe by design for nanomaterials should now focus more heavily on consumer and environmental exposures?

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Legend

answers: 237

skips: 3

**SECTION: SECTION 3: MORE DETAIL ABOUT METHODS NEEDS**ID #2122 (<https://scipinion.com/surveys/84/results/2122>)

Improvements to which of the following overall nanomaterial measurement systems are most urgently needed to support risk management?

	Assessment of Physicochemical Characteristics	Detection and quantification of Exposure	Methods for Toxicity Testing	Methods for Assessment of Toxicokinetics	High Throughput Testing Systems	Lab on a Chip approaches to support risk assessment	Other	Total
1	23.21% 52	48.66% 109	8.48% 19	6.25% 14	5.80% 13	4.02% 9	3.57% 8	224
2	19.64% 44	26.34% 59	19.64% 44	13.84% 31	10.71% 24	7.14% 16	2.68% 6	224
3	16.06% 35	8.72% 19	23.39% 51	23.85% 52	15.14% 33	10.09% 22	2.75% 6	218
4	20.47% 44	4.19% 9	19.53% 42	28.37% 61	16.28% 35	9.77% 21	1.40% 3	215
5	10.29% 21	5.88% 12	15.69% 32	20.10% 41	30.88% 63	15.69% 32	1.47% 3	204
6	8.50% 17	3.50% 7	11.00% 22	8.50% 17	17.50% 35	49.00% 98	2.00% 4	200
7	3.26% 3	7.61% 7	6.52% 6	1.09% 1	8.70% 8	22.83% 21	50.00% 46	92

ID #2123 (<https://scipinion.com/surveys/84/results/2123>)

For Physicochemical Characterization, which measurement types most urgently need methods development to support risk management for current nanomaterial uses?

	Particle Size Distribution	Volume Specific Surface Area	Aspect Ratio (shape)	Particle Rigidity	Solubility or Dissolution Rate	Chemical Composition (including surface)	Other	Total
1	23.58% 50	9.91% 21	6.60% 14	1.42% 3	25.94% 55	28.30% 60	4.25% 9	212
2	14.15% 30	13.21% 28	13.21% 28	6.60% 14	28.77% 61	23.11% 49	0.94% 2	212
3	16.91% 35	15.94% 33	16.91% 35	14.98% 31	17.39% 36	14.49% 30	3.38% 7	207
4	12.94% 26	28.36% 57	20.90% 42	17.41% 35	10.95% 22	8.96% 18	0.50% 1	201
5	17.95% 35	18.97% 37	26.15% 51	16.41% 32	11.28% 22	7.69% 15	1.54% 3	195
6	15.14% 28	7.57% 14	12.97% 24	40.54% 75	6.49% 12	15.14% 28	2.16% 4	185
7	6.58% 5	10.53% 8	6.58% 5	14.47% 11	3.95% 3	7.89% 6	50.00% 38	76

ID #2124 (<https://scipinion.com/surveys/84/results/2124>)

For Detection and Quantification of Exposure, which measurement types most urgently need methods development to support risk management for current nanomaterial uses?

	Number Concentration	Number Size Distribution Concentration	Mass Concentration	Surface Area Concentration	Other	Total
1	15.74% 34	40.74% 88	16.20% 35	23.61% 51	3.70% 8	216
2	26.92% 56	29.81% 62	16.83% 35	25.00% 52	1.44% 3	208
3	32.49% 64	18.27% 36	20.81% 41	25.89% 51	2.54% 5	197
4	21.99% 42	9.42% 18	41.88% 80	24.08% 46	2.62% 5	191
5	9.38% 6	7.81% 5	14.06% 9	6.25% 4	62.50% 40	64

ID #2125 (<https://scipinion.com/surveys/84/results/2125>)

For Toxicity and Toxicokinetics, which measurement types most urgently need methods development to support risk management for current nanomaterial uses?

	Cytotoxicity	Inflammation	Oxidative stress	Genotoxicity	Absorption	Distribution /accumulation	Other	Total
1	7.69% 16	10.10% 21	9.62% 20	12.98% 27	19.23% 40	37.02% 77	3.37% 7	208
2	8.50% 17	13.50% 27	12.00% 24	12.50% 25	29.50% 59	22.50% 45	1.50% 3	200
3	15.46% 30	17.01% 33	24.23% 47	20.10% 39	10.31% 20	11.86% 23	1.03% 2	194
4	20.83% 40	20.83% 40	16.15% 31	22.40% 43	8.85% 17	9.38% 18	1.56% 3	192
5	15.51% 29	20.32% 38	24.06% 45	13.37% 25	17.11% 32	9.09% 17	0.53% 1	187
6	27.62% 50	14.36% 26	9.39% 17	16.57% 30	16.02% 29	14.92% 27	1.10% 2	181
7	9.38% 6	9.38% 6	6.25% 4	9.38% 6	3.13% 2	4.69% 3	57.81% 37	64

ID #2126 (<https://scipinion.com/surveys/84/results/2126>)

Please rank the following sectors of use with regard to need for development of High Throughput Test Systems to support risk management decisions.

	Physicochemical characterisation	Toxicology testing	Ecotoxicology testing	Other	Total
1	36.82% 81	44.55% 98	16.36% 36	2.27% 5	220
2	16.20% 35	36.57% 79	44.91% 97	2.31% 5	216
3	44.66% 92	14.08% 29	37.38% 77	3.88% 8	206
4	11.76% 8	11.76% 8	11.76% 8	64.71% 44	68

