

Innovation level:	VH Berlin applied R&D road map 2015 – 2020 in the yeast production, with focus on COFALEC. Status 03/2016 completed studies/projects, actual research projects (RP) in bold letters, ideas/future projects in cursive letters)		
High:		Evolutionary engineering / Biocatalyses: Catalytic enzymes: Yeast enzymes for sugar catalysis / inversion in fermentation reactors (new study / collaborative RP ?) GSH enrichment in yeasts (RP ZIM VP (ILU) 2013 ff.)	System biology / model control: "yeast scent" a proxy for metabolic modelling (RP e-Bio transfer (IAMB) 2015 -2017.) Biomarkers: (Single) yeast cell aging analysis (new study / collaborative RP?)
Average:		Process analytical technology (PAT): NIR 1.7 YCA yeast spectrometer (beta test 2013 ff. + molasses 2015) Electronic nose for yeast flavors (RP ZIM KF 2014)	Process optimisation: Absorption chillers in yeast productions Excess energy analysis for Ab - chilling application (new study / collaborative RP?) Drying / coatings: Functional YCW, to replace gelatine in coating (RP AIF/IGF (FhG IVV) 2016 ff.)
Low:	"Compact dry plate" detection" (accredited 2014) Baking as killing step evaluation (study 2014)	QM Methods: Raising power probe (RPP) (beta test 2014 ff.) MALDI-TOF yeast strain identification (RP ZIM KF 2014) Lane Eynon semi-automatic titrator Molasses quality analysis (new study / collaborative RP ?)	Fermentation recipies / substrates: Organic molasses grown yeast delays in cold dough applications (new study / collaborative RP ?)
mprovement potential:	Low	Average	High