

| Curriculum Vitae: Anthony A Hyman | |
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| Position | Institute Director |
| Telephone | +49-351-210-1700 |
| E mail | hyman@mpi-cbg.de |
| Website | https://hymanlab.org |

Education:

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| 1984 | University College London | BSc first class Zoology |
| 1988 | King's College Cambridge | PhD Molecular Cell Biology |

Professional Experience:

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| 1985 - 1987 | PhD at the LMB, MRC, Cambridge | Mentor John White. |
| 1988 - 1992 | Postdoctoral Research: UCSF, CA | Mentor Tim Mitchison. |
| 1993 - 1997 | Group Leader: EMBL, Heidelberg | |
| 1997 - | Director, MPI-CBG Dresden | |
| 2010 - 2013 | Managing Director, MPI-CBG | |

Trainees

For details see https://hymanlab.org/hyman_lab/people/

Number of postdoctoral fellows trained: 36

Number of students trained: 21

Honors and Awards:

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| 2000 | EMBO member |
| 2002 | Honorary Professor TUD Dresden |
| 2003 | EMBO Gold Medal |
| 2007 | Norman Heatley Lecture, Sir William Dunn School, UK |
| 2007 | Elected fellow of the Royal Society |
| 2011 | Gottfried Wilhelm Leibniz Prize |
| 2017 | German National Academy of Sciences, Schleiden Medal |
| 2017 | Lifetime Fellow of the American Society for Cell Biology |
| 2019 | Carl Zeiss Lecture for outstanding achievements in cell biology |
| 2020 | Wiley prize for Biomedical research |
| 2020 | Elected foreign member National Academy of Sciences |

Selected Professional Service and Advisory Boards:

- 2007 – 2016 **Chair**, SAB Institute of (IMBA), Vienna, Austria
- 2014 – 2020 **Chair**, SAB of the NNF Center for Protein Research, Denmark.
- 2014 – 2017 **Council Member**, American Society of Cell Biology (ASCB)
- 2014 – 2020 **Scientific Advisory Council**, EMBL Heidelberg.
- 2013 – **Member**, Academic Research Council, Singapore
- 2017 – 2020 **Chair**, Wellcome Trust Strategy committee.

Selected meetings organized

- 2012 **Program Chair**, American Society of Cell Biology, Annual Meeting
- 2013 **Co-chair**. Annual meeting, European Molecular biology organization
- 2018 **Organizer**, Inaugural Keystone Symposium, Biomolecular Condensates
- 2018 **Co-Organizer**. Solvay conference on physics
- 2019 **Organizer**, inaugural EMBO practical course on phase separation

Other activities

- 2007-2012 **Elected member** of foreigners council, City of Dresden
- 2005- **Chair**, board of governors, Dresden International School
- 2017-2020 **Advisory board**, Dresden city council, city of culture application

Selected invited lectures and Plenary talks (since 2015):

- 2015 Keynote lecture: Phase Transition Meeting, Princeton University, USA
- 2015 Invited lecture: "Publish and Perish?" Seminar, Royal Swedish Academy of Sciences,
- 2015 Plenary Talk: ASCB Meeting 2015, San Diego, USA
- 2016 Keynote lecture: Mesoscopic Biology Colloquium, Paris Sciences et Lettres
- 2016 Keynote lecture: PhD Symposium, Biozentrum of the University of Basel
- 2016 Szent-Györgyi talk: Woods Hole Marine Biological Laboratory,
- 2016 Plenary lecture: Joint Meeting of the Society for Developmental Biology
- 2016 EMBO Keynote: Young Investigators Meeting, Goa, India
- 2017 Keynote lecture: University Medical Centre, Geneva,
- 2017 D. Thomas Lecture: CRC Symposium, St. Jude's. Memphis, USA
- 2017 Career lecture: Centrosome and Spindle Pole Body Conference, Heidelberg
- 2017 Distinguished Lecture CRUK, Cambridge Institute, UK
- 2018 Keynote lecture: The British Society for Cell Biology 2018 meeting
- 2018 Keynote lecture: Mechanisms Driven by Liquid Phase Separation, Heidelberg,
- 2018 Landmark lecture: Microtubules: From Atoms to Complex Systems, Heidelberg,

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| 2018 | Friday lecture: | Rockefeller University New York |
| 2018 | Keynote Lecture: | IMBA/IMP Recess, Vienna |
| 2018 | Keynote Lecture: | Frontiers in Biology Seminar Series, Rennes |
| 2018 | Keynote Lecture: | 2018 Max Planck Epigenetics Meeting, Freiburg |
| 2019 | Invited lecture: | Chan-Zuckerberg Bio hub, San Francisco |
| 2019 | Colloquium Lecture: | Weizmann institute of science, Rehovot |
| 2019 | Chiron Lectures: | University of California. Berkeley |
| 2019 | Special lecture | Annual meeting, society of neuroscience, Chicago |

Selected recent publications

A full list of publications can be found in google scholar under: [Hyman, AA](#)

- 1) Brangwynne, CP; Eckmann, CR; Courson, DS; Julicher F and Hyman, AA, (2009). Germline P Granules Are Liquid Droplets That Localize by Controlled Dissolution/Condensation. *Science* **324**(5935); 1729-1732
- 2) Hyman AA, Weber CA, Jülicher F. (2014). Liquid-liquid phase separation in biology. *Annu Rev Cell Dev Biol*: 30:39-58.
- 3) Woodruff JB, Wueseke O, Viscardi V, Mahamid J, Ochoa SD, Bunkenborg J, Widlund PO, Pozniakovsky A, Zanin E, Bahmanyar S, Zinke A, Hong SH, Decker M, Baumeister W, Andersen JS, Oegema K, Hyman AA. (2015). Centrosomes. Regulated assembly of a supramolecular centrosome scaffold in vitro. *Science*: 348(6236):808-12.
- 4) Patel A, Lee HO, Maharana S, Jawerth L, Jahnelt M, Saha S, Pozniakovski A, Poser I, Stoynow S, Myers E, Drechsel D, Grill S, Hyman AA* and Alberti S*. (2015). A liquid to solid phase transition of the ALS protein FUS accelerated by disease mutation. *Cell*: 162(5):1066-77.
- 5) Saha S, Weber CA, Nusch M, Adame-Arana O, Hoegge C, Hein MY, Osborne-Nishimura E, Mahamid J, Jahnelt M, Jawerth L, Pozniakovski A, Eckmann CR, Jülicher F, Hyman AA. Polar Positioning of Phase-Separated Liquid Compartments in Cells Regulated by an mRNA Competition Mechanism. *Cell*. 2016 Sep 8;166(6):1572-1584.e16.
- 6) Woodruff JB, Ferreira Gomes B, Widlund PO, Mahamid J, Honigmann A, Hyman AA. The centrosome is a selective condensate that nucleates microtubules by concentrating tubulin. *Cell*. 2017 Jun 1;169(6):1066-1077.e10.
- 7) Patel A, Malinowska L, Saha S, Wang J, Alberti S, Krishnan Y, Hyman AA. ATP as a biological hydrotrope. *Science*. 2017 May 19;356(6339):753-756.
- 8) Hernández-Vega A, Braun M, Scharrel L, Jahnelt M, Wegmann S, Hyman BT, Alberti S, Diez S, Hyman AA. Local nucleation of microtubule bundles through tubulin concentration into a condensed tau phase. *Cell Rep*. 2017 Sep 5;20(10):2304-2312.
- 9) Titus Franzmann, Marcus Jahnelt, Andrei I. Pozniakovsky, Julia Mahamid, Alex S Holehouse, Elisabeth Nüske, Doris Richter, Wolfgang Baumeister, Stephan W. Grill, Rohit V Pappu,

Anthony A. Hyman*, Simon Alberti* (2018) Phase separation of a yeast prion protein promotes cellular fitness. *Science* 359(6371) Art. No. eaao5654

- 10) Banani SF, Lee HO, Hyman AA*, Rosen MK*. Biomolecular condensates: organizers of cellular biochemistry. *Nat Rev Mol Cell Biol.* 2017 Feb 22.
- 11) Wang J, Choi, J-M, Holehouse AS, Lee, HO, Zhang X, Jahnel, M, Maharana, S, Lemaitre, R, Pozniakovsky A, Drechsel D, Poser I, Pappu RV, Alberti, S* Hyman AA *(2019). A molecular grammar governing the driving forces for phase separation of prion-like RNA binding proteins. *Cell*, 174(3):688-69